

Welcome to the 67th ASMS Conference on Mass Spectrometry and Allied Topics. Conference program activities and exhibit booths are in the Georgia World Congress Center. Corporate Member hospitality suites are located in the Omni CNN Hotel.

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REGISTRATION, is open 10:00 am - 8:00 pm on Sunday and 7:30 am - 5:00 pm Monday - Thursday, Building B Main Lobby

ATTENTION UNDERGRADUATE STUDENTS AND FIRST TIME (AT ASMS) GRADUATE STUDENTS

4:00 - 4:45 pm, Sunday, B302-305, Level Three Plan Your Strategy: What to See and Do at ASMS

TUTORIALS
SUNDAY TUTORIAL SESSION I, 5:00 - 6:30 PM
Murphy Ballroom, Level Five





5:00 - 5:45 pm **Lipidomics Stephen Blanksby** *Queensland Univ. of Technology* **& Gavin Reid** *University of Melbourne*



5:45 - 6:30 pm

Targeted Imaging

Enrico Davoli

Mario Negri Institute

SUNDAY TUTORIAL SESSION II, 5:00 - 6:30 PM B302-305, Level Three



5:00 - 5:45 pm Native Mass Spectrometry Michal Sharon

Weizmann Institute

The Buck Institute



5:45 - 6:30 pm

Data Independent Acquisition

Birgit Schilliing

PLENARY SESSIONS
SUNDAY CONFERENCE OPENING, 6:45 - 7:45 PM
Murphy Ballroom, Level Five

Welcome



Susan Richardson
University of South Carolina
ASMS Vice President for Programs



Transitioning the World Energy for All Purposes to Stable Electricity Powered by 100% Wind, Water, and Sunlight

Mark Z. Jacobson Stanford University

SUNDAY WELCOME RECEPTION, 7:45 - 9:00 PM Poster/Exhibit Hall, Hall B-2 & B-3, Level One. Conference name badge is required.

Monday Award Lecture, 4:45 - 5:30 pm Murphy Ballroom, Level Five



John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry

John R. Yates
The Scripps Research Institute

TUESDAY AWARD LECTURE, 4:45 - 5:30 PM Murphy Ballroom, Level Five



Biemann Medal Sarah Trimpin Wayne State University

THURSDAY PLENARY SESSION, 4:45 - 5:30 PM Murphy Ballroom, Level Five



Chemistry of Food and Soft Drinks
Lilly D'Angelo
Global Food & Beverage Technology
Associates

THURSDAY CLOSING EVENT AT THE GEORGIA AQUARIUM, 6:30 - 9:30 PM, \$40/PERSON



Tickets must be purchased in advance by Monday 12 noon. Join us for an enchanting evening at the Georgia Aquarium. Dinner buffets close at 8:00 pm, dessert available until close. Ticket includes aquarium entry for our private event, dinner buffet and one drink ticket for soda, beer, or wine. Cash bars available until close

GENERAL INFORMATION



ORAL SESSIONS are 8:30 - 10:30 am and 2:30 - 4:30 pm Monday through Thursday.

Building B - Level Five

Session A (MOA, TOA, WOA, ThOA)..... Murphy Ballroom **Building B – Level Four**

Building B – Level Three

 Session D (MOD, TOD, WOD, ThOD)
 B302-305

 Session E (MOE, TOE, WOE, ThOE)
 B308-309

 Session F (MOF, TOF, WOF, ThOF)
 B312-314

Building A – Level Four

ORAL PRESENTATIONS are projected from ASMS computers running Microsoft Office. Speakers are required to use the ASMS computers for their presentations.

SPEAKERS must load presentations at least one day prior to their talks. The speaker ready room is B301, Building B, Level Three. The room is open with a technician according to this schedule:

Sunday: 10:00 am - 8:00 pm

Monday through Thursday: 7:30 am - 2:00 pm

POSTERS AND EXHIBIT BOOTHS are in the Poster/Exhibit Hall. The Hall is open:

Sunday Welcome Reception7:45 pm - 9:00 pm Monday - Wednesday7:00 am - 8:00 pm Thursday7:00 am - 2:30 pm

Poster Set-Up is 7:00 - 8:00 am on the day scheduled. **Refer to the poster numbers in this final program for board assignments.** A counter for poster supplies is near the main entrance to the Hall.

HISTORY POSTERS are on display all week in Building B, Main Lobby.

Poster Sessions are 10:30 am - 2:30 pm, Monday through Thursday.

POSTER AUTHORS must be present at posters on scheduled days at these times. The following was new in 2018 (and may be new to some presenters for 2019) and allows for a one-hour non-overlapping lunch break. All presenters are now scheduled for 3 hours (authors welcome to attend the full four hours).

Odd-number posters present:

10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-number posters present:

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Poster Pick-Me-Up Snacks served at 1:30 pm.

Presenters who must leave a poster unattended should post a return time. Presenters should wear "Poster Presenter" badges which are available at the poster supply counter.

Posters should be removed between 7:00 - 8:00 pm on Monday, Tuesday and Wednesday. Thursday posters should be removed between 2:30 - 3:00 pm.

Lunch Concessions in the Poster/Exhibit hall offer a variety of options to dine and network while taking a break from posters. Concessions are open 11:00 am - 2:00 pm, Monday through Thursday.

EXHIBITORS must staff exhibit booths as follows:

Sunday Reception	7:45 pm - 9:00 pm
Monday - Thursday	10:30 am - 2:30 pm

WORKSHOPS are 5:45 - 7:00 pm on Monday, Tuesday, and Wednesday. Light refreshments are provided on Level Three of Building A.

DINNER BREAK 7:00 - 8:00 PM is time for a breath of fresh air before the opening of hospitality suites at 8:00 pm.

SPECIAL PROGRAM FOR UNDERGRADUATE STUDENTS

- Sunday, 7:30 9:00 pm, Poster competition, Poster/ Exhibit Hall
- Monday, 11:30 am 1:00 pm, Meet the Experts. Lunch tables reserved for undergraduate students in the Poster/ Exhibit Hall. Free vouchers for lunch will be provided at the tables. Arrive promptly at 11:30 am to obtain your voucher.

FREE WIFI Access and Internet Stations are available throughout the convention center.

CONFERENCE PROCEEDINGS will be published online. Submission to the proceedings does not constitute publication and does not jeopardize the rights of authors to publish contents of their submissions. **Speaker slides will be printed to PDF and used as proceedings submission for speakers who fail to submit on their own.**

WEBCASTING includes tutorial lectures, plenary lectures, and oral sessions. Webcasts will be available to conference attendees for four months after the conference. ASMS does not retain rights to material included in webcasts.

CORPORATE HOSPITALITY SUITES may open 8:00 – 11:00 pm, Monday through Wednesday. Suites are located in the **Omni CNN Hotel**.

CAREER CENTER is located in B211-212. The Career Center is open to all conference attendees. Applicants and employers must enter resumes and employment opportunities online. There are computers in the center for searching the database of candidates and positions. Interview booths are available for onsite reservations (one-day advance reservation is recommended.)

Sunday7:45	- 9	9:00	pm
Monday - Wednesday7:30 am	- ;	5:00	pm
Thursday7:30 am	- 2	2:30	pm

GUEST REGISTRATION (\$10) includes designated name badge and entrance to the Sunday evening welcome reception. The badge does not gain entrance to oral sessions or the Poster/Exhibit Hall.

GENDER NEUTRAL RESTROOMS are designated in Building A and B. level three.

MAMAVA/LACTATION PODS AND MOTHER'S LOUNGE

The center is equipped with two Mamava (lactation) pods, one in Building A (outside room A411) and one in Building B (across from B405). These pods are free for attendees to use. Meeting room B201 is also available for mothers to use.



Don't Miss these Resources in the Poster/Exhibit Hall



- Learn from experts designated times to come, ask questions, and get advice.
- Designated programs and debates to illuminate specific topics and tools.
- Look for schedule details on the hub's wiki (linked to www.asms.org) and entry sign at the conference.



Meet with representatives from various funding agencies. Appointment sign up sheets will be posted on 'office' entry sign. Attendees are encourage to take advantage of this valuable resource while at the conference.

CONFERENCE REGULATIONS

Please review these policies which are intended to assure the comfort and privacy of all conference participants.

Name badge is required for all conference sessions, including the Poster/Exhibit Hall and Career Center, and off site events such as the hospitality suites and closing event (ticket required).

No smoking is permitted in the convention center.

All devices must be silenced and screens darkened in oral sessions.

No photography or recording is allowed in oral sessions or in the Poster/Exhibit Hall.

Parents. Planned conference sessions and hospitality suites may not be appropriate for children. Please respect the interests of your colleagues by allowing them to attend activities without disruption and without concern for the safety of children. Strollers, child backpack carriers or similar devices are permitted in the poster hall, and parents/caregivers are asked to keep in mind safety and well-being of children and conference attendees, taking care to avoid crowded spaces. Strollers are prohibited in the hospitality suites.

Material presented or displayed at the ASMS Conference, including but not limited to orals, posters, workshops, exhibit booths and hospitality suites, is the intellectual property of the presenter and may not be recorded, photographed, quoted, disseminated or transmitted by summary in any form without express written authority of the author.

The placement of advertising in the meeting area is prohibited. There are poster boards and tables in the Poster/Exhibit Hall for approved announcements.

Hardware, accessories or any items for sale may be displayed only in corporate exhibit booths and hospitality suites.

Designated publisher tables in the conference registration area are for the display of books and journals and must be reserved in advance.

There are tables in the registration area for authors who wish to display their books. Authors may use a table to promote their books, sign copies, and speak with members. Table space must be reserved at conference registration.

No organized activities (even off-site) other than those approved by ASMS are allowed during the conference week (5:00 pm on Sunday through 6:00 pm on Thursday).

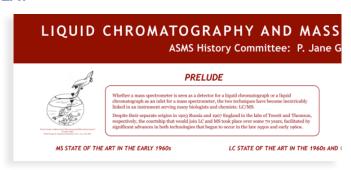
Corporate hospitality suites may be used during the daytime hours of 8:00 am - 8:00 pm for one-on-one and small group meetings (no more than 25 persons per organization) by appointment only (no walk-ins). No music, programs, seminars, or refreshments may be included in these private, business meetings.

Corporate or institutional logos on slides or posters may appear only one time in the presentation.



2019 CONFERENCE HISTORY POSTER DISPLAY

Similar to previous years, the History Committee will again display a selection of posters that describe the historical development of our field and our Society with focus on key figures, pioneering instrument designs, and innovative applications of technology. We'll also continue the Vendor History theme initiated in 2018. This year's display will include vendor-created posters from last year plus two new ones: a second contribution from Waters highlighting the development of their quadrupole mass analyzers through the line of companies VG/Fisons/Micromass/Waters and one from Agilent describing quadrupole instrument development



at Hewlett-Packard/Agilent. Finally, we'll celebrate ASMS's 60th birthday by re-displaying the anniversary decade posters for the years 1953-1992 and extending the series with two new additions: the 1993-2002 decade, "Biology Meets Mass Spectrometry," and the succeeding 2003-2012 decade, "The Era of 'Omics." Plan to spend some time with us at the History Poster Display in the main lobby/registration area!





NEW MEMBERS OF THE HISTORY COMMITTEE

The History Committee welcomed two new members in 2018: Phil Price, a long-time ASTM E-14 and ASMS member whose work for the Society actively shaped the history of Standards and Nomenclature, and Glen Jackson, ASMS member since 2001 and a Fellow of the American Academy of Forensic Sciences who has written extensively on the history of Forensics Mass Spectrometry.

New History Committee members Phil Price (left) and Glen Jackson (right)

HISTORIC INSTRUMENT REPLICAS

The Replica Display has a new home! After an 18-month stay at the University of Illinois at Chicago, jointly hosted by Professors Stephanie Cologna and Laura Sanchez, the Replica Display has moved to the University of Texas at Austin under the auspices of Professor Livia Eberlin. Read about the genesis of the Replica project, follow the display's itinerary, and learn how to add your institution to the list of future venues on its newly-created webpage (https://www.asms.org/about/history/historical-instruments-replica).



In Memoriam

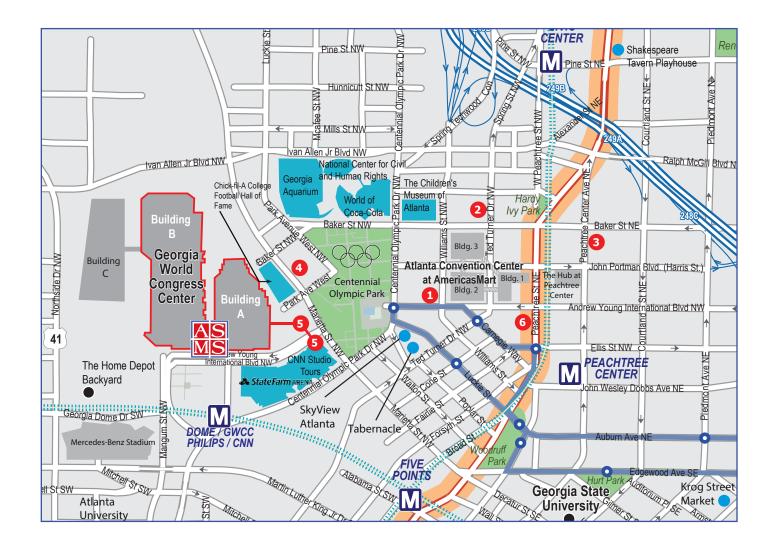
The ASMS website now contains links to JASMS articles that celebrate the lives of deceased ASMS members. Check out https://www.asms.org/publications/journal-of-the-american-society-for-mass-spectrometry-group/obituaries-from-jasms for remembrances of scientists whose work was seminal to the development of our field.

SCIENCE HISTORY INSTITUTE

ASMS continues to partner with the Science History Institute (formerly Chemical Heritage Foundation) to preserve the Society's history. As Oral Histories of ASMS members are completed and published, links to the full interviews are added to the History web page. Soon to come at history-project: Ron Macfarlane, David Sparkman and Jack Watson! The Institute also provides archival storage for ASMS ephemera, both for the Society and for its members. If you have documents of historical importance you'd like to donate – like meeting programs, instrument manuals, photographs or other artifacts – please contact ASMS Archivist/Historian Jane Gale (jane.pjgale@gmail.com).

CONFERENCE HOTELS

AC Hotel by Marriott Downtown
 Aloft Atlanta Downtown
 Atlanta Marriott Marquis
 Embassy Suites Atlanta
 Omni Atlanta Hotel at CNN Center
 Westin Peachtree Plaza
 Tel. (404) 524-5555
 Tel. (404) 521-0000
 Tel. (404) 659-0000
 Tel. (404) 659-1400



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to these members who were elected to the ASMS Board

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Matthew B. Renfrow

Christian Bleiholder Fundamentals

Alexandre Shvartsburg

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Ion Mobility MS **Brian Clowers**

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Glen Jackson Ion Trap MS

Desmond Kaplan

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Eleanor Riches

Polymeric Materials Jessica Hoskins

Christina Mastromatteo

Regulated Bioanalysis Fabio Garofolo

Jian Wang

Top-Down Proteomics Frederik Lermyte

Nicholas Young

Undergraduate Jay G. Forsythe Research in MS Christine Hughey

Young Mass Veronica Anania Spectrometrists Sharon Pitteri

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JOHN B. FENN AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS SPECTROMETRY

2019 RECIPIENT: JOHN R. YATES III
AWARD LECTURE: 4:45 PM, MONDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The ASMS Award for Distinguished Contribution in Mass Spectrometry honors the memory of John B. Fenn who shared the 2002 Nobel Prize for the development of electrospray ionization. John joined ASMS in 1986 and remained an active member until his passing in 2010. The award is conferred at the ASMS Annual Conference with the presentation of a \$10,000 cash award, a recognition plaque, and the award lecture.

Dr. John R. Yates III is the recipient of the 2019 ASMS John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry, for development of automated, large-scale interpretation of peptide tandem mass spectral data. Dr. Yates' SEQUEST algorithm laid a critical foundation for the field of proteomics and has enhanced the accuracy and effectiveness of mass spectrometry to understand important biological and clinical questions.

Subsequent software developments continue to empower molecular and cellular biology research, including peptide and protein quantitation, identification of posttranslational modifications, and the use of DNA sequences to enable proteogenomic methods. Dr. Yates also enabled large-scale studies to identify the components of protein complexes in single celled organisms and mammalian cells. Proteomics is now practiced by thousands of researchers all over the world to study proteins in almost every organelle in prokaryotic and eukaryotic cells. The comprehensive analysis of cells and tissues is now routinely used to understand differences between normal and disease states.

Dr. Yates is Professor, Department of Molecular Medicine, The Scripps Research Institute.

AL YERGEY MS SCIENTIST AWARD 2019 RECIPIENT: JEFFERY SHABANOWITZ

AWARD PRESENTATION: 4:45 PM, MONDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The AI Yergey Mass Spectrometry Scientist Award is sponsored by ASMS to recognize dedication and significant contributions to mass spectrometry-based science by "unsung heroes." This award is named in memory of AI Yergey a well-respected scientist who was known as a dedicated mentor.

Dr. Jeffrey Shabanowitz is the inaugural recipient of the Al Yergey MS Scientist Award. For more than forty years Dr. Shabanowitz has worked with Professor Donald Hunt at the University of Virginia, where he coauthored more than 330 peer-reviewed scientific papers and is co-inventor on ten issued patents. He played a major role in development of peptide sequence analysis by tandem mass spectrometry. The methods and instrumentation he helped to develop underpin the field of proteomics, and have led to major breakthroughs.

especially in immunology and epigenetics research. He has also been a valued mentor to dozens of graduate students, postdocs, and visiting scientists. Dr. Shabanowitz is Principal Scientist in the Hunt Laboratory at the University of Virginia

BIEMANN MEDAL 2019 RECIPIENT: SARAH TRIMPIN AWARD LECTURE: 4:45 PM, TUESDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5



The Biemann Medal is awarded to an individual early in his or her career to recognize significant achievement in basic or applied mass spectrometry. The Medal is conferred at the ASMS Annual Conference with the presentation of a \$5,000 cash award, a recognition plaque, and the award lecture.

Dr. Sarah Trimpin is the recipient of the 2019 Biemann Medal for discovery and development of novel ionization processes. Dr. Trimpin's unusual observation of highly charged protein ions in an atmospheric pressure MALDI experiment led to her discovery that ionization occurs simply by passing compounds through the inlet of a mass spectrometer. She demonstrated that this simple approach achieves sensitivity comparable with, and frequently better than, electrospray or MALDI.

Through fundamental studies, Dr. Trimpin discovered solid matrices that produce highly charged ions upon laser ablation using MALDI ion sources. Even more astonishing is her discovery of matrix compounds that spontaneously produce multiply charged ions when exposed to vacuum (termed matrix-assisted ionization, MAI). No heat, nebulizing gases, laser, or voltage is required and exceptionally low chemical background is achieved for a variety of compounds, including proteins at least as large as bovine serum albumin (66 kDa). She has now discovered more than forty matrices that spontaneously produce analyte ions. Her work has been recognized by numerous awards and has led to commercialization.

Dr. Trimpin is Professor of Chemistry at Wayne State University.



2019 RESEARCH AWARDS

AWARD PRESENTATIONS: 4:45 PM, TUESDAY, MURPHY BALLROOM, BUILDING B, LEVEL 5

Research awards promote the research of academic scientists within the first four years of joining the tenure track or research faculty of a North American University at the time the award is conferred. The awards, in the amount of \$35,000 each, are fully supported by Bruker, Thermo Fisher Scientific, and Waters Corporation.

Sponsored by BRUKER



James F. Davies University of California, Riverside

Sponsored by
THERMO FISHER SCIENTIFIC



Nicolas L. Young
Baylor College of Medicine

Sponsored by
Waters Corporation



Eleanor Browne University of Colorado, Boulder

2019 PRIMARILY UNDERGRADUATE INSTITUTION RESEARCH AWARD Award Presentations: 4:45 pm, Tuesday, Murphy Ballroom, Building B, Level 5

Sponsored by Agilent Technologies

This award promotes academic research in mass spectrometry by faculty members and their students at primarily undergraduate institutions (PUIs). The award of \$20,000 is made to the recipient's institution on behalf of the recipient's research.

Callie Cole
Fort Lewis College



RON HITES AWARD FOR OUTSTANDING RESEARCH PUBLICATION IN JASMS AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, Level 3



The Ron Hites Award recognizes an outstanding publication of original research based on innovative aspects, technical and presentation quality, and likely stimulation of future research or applications. The award is named to honor Professor Ron Hites of Indiana University, who led the creation of *JASMS* in 1988 while president of ASMS. The award includes \$2,000 and certificates.

The 2019 Ron Hites Award recognizes Dr. Julia Laskin, Purdue University and her co-authors for their paper Towards High-Resolution Tissue Imaging Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Coupled to Shear Force Microscopy; Son N. Nguyen, Ryan L. Sontag, James P. Carson, Richard A. Corley, Charles Ansong, and Julia Laskin; *J. Am. Soc. Mass Spectrom.* (2018) 29:316Y322.



2019 POSTDOCTORAL CAREER DEVELOPMENT AWARDS AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, LEVEL 3

Up to five awards in the amount of \$5,000 each are intended to promote the professional career development of postdoctoral fellows in the field of mass spectrometry. Activities funded by these awards include conference and workshop attendance, travel to other mass spectrometry laboratories, purchase of books and/or software. The awards are open to ASMS members who are postdoctoral fellows within three years of completing a Ph.D. or equivalent degree. Applicants must be currently appointed as a postdoctoral fellow in North America (e.g., in academia, industry, a government or national laboratory or at a research institute). Details and an application are posted to asms.org.



Christopher Ashwood Medical College of Wisconsin



Josue Baeza University of Pennsylvania



Gongyu Li University of Wisconsin-Madison



Jared Kafader Northwestern University



Nicholas Riley Stanford University

2019 STUDENT TRAVEL AWARDS AWARD PRESENTATIONS: ASMS MEETING, 4:45 PM, WEDNESDAY, B302-305, LEVEL 3

ASMS supports up to twenty awards of \$1,000 for graduate students and ten awards of \$500 for undergraduates. Applications and details for these awards are posted to asms.org.

GRADUATE STUDENT AWARDS

Molly Blevins, University of Texas at Austin Wanying Cao, University of Nebraska-Lincoln Ming Cheng, Washington University in St.Louis Sean Cleary, University of Oregon Mariel Coradin, University of Pennsylvania Kellen DeLaney, University of Wisconsin-Madison Kristen Fowble, University at Albany-SUNY Naren Gajenthra Kumar, Virginia Commonwealth University Praveen Kumar, University of Minnesota Ting-Hao Kuo, National Taiwan University Chenxi Liu, University of Arizona Elijah McCool, Michigan State University Sibylle Pfammatter, IRIC-Université de Montréal Jaqueline A. Picache, Vanderbilt University Erika Portero, University of Maryland, College Park Marta Sans Escofet. University of Texas at Austin Leah Schaffer, University of Wisconsin-Madison Savannah Snyder, The University of Akron Yang Tang, Boston University Trisha Tucholski, University of Wisconsin - Madison

UNDERGRADUATE STUDENT AWARDS

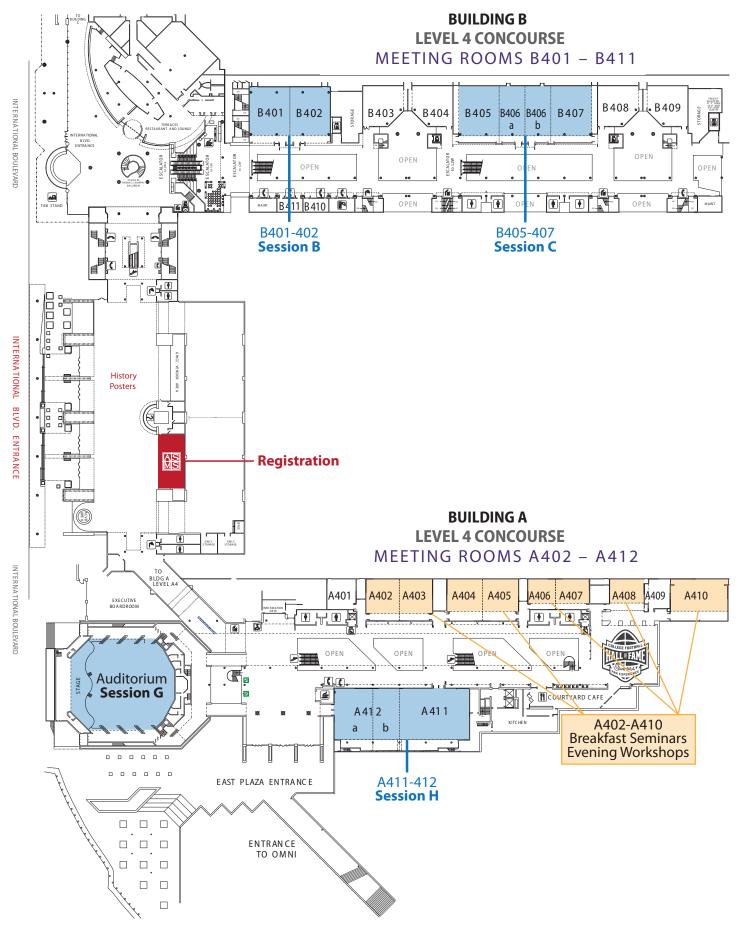
Shelby Beasley, University of Oklahoma
Alisha Birk, Stanford University

Cameron Davis, National High Magnetic Field Laboratory
Richard Dilworth, University of Florida
Anna lacovino, Duquesne University

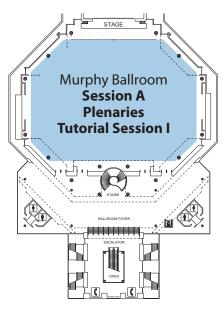
Kaylie Kirkwood, North Carolina State University
Abigail Lemmon, University of Pennsylvania
Javier Moreno, Florida International University

Amanda Wong, Saint Mary's College of California
Emily Ziperman, Baylor University

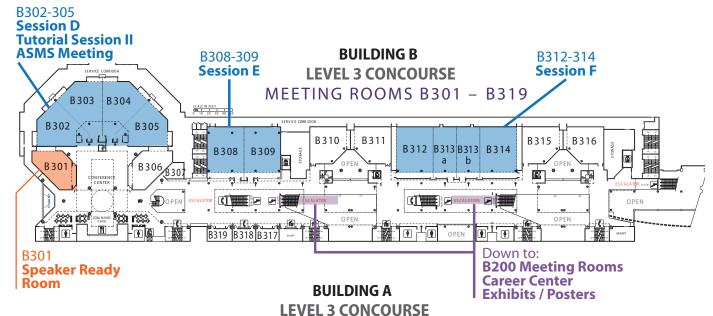


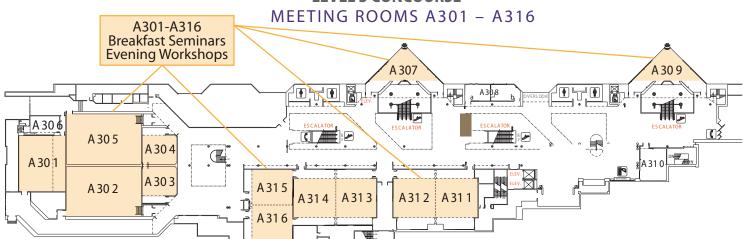




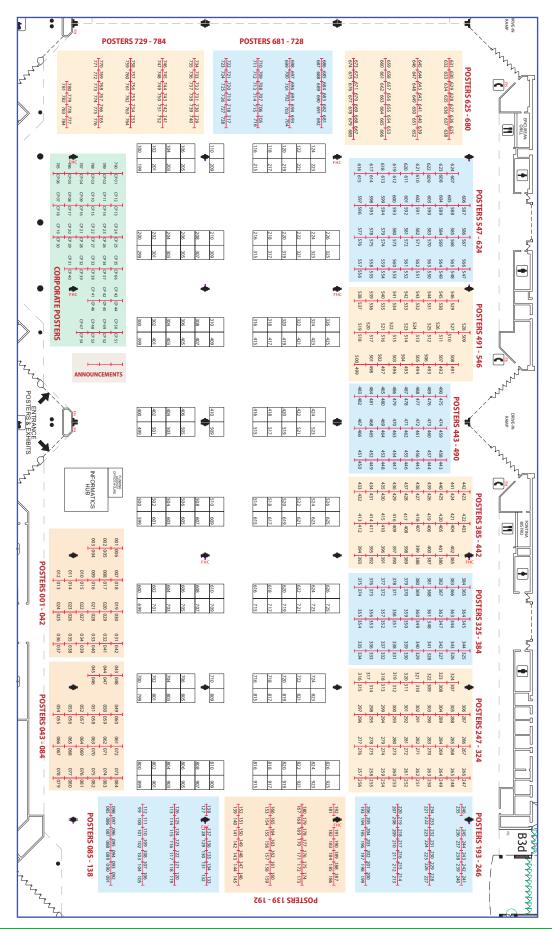


Thomas B. Murphy Ballroom BUILDING B Level 5 Concourse



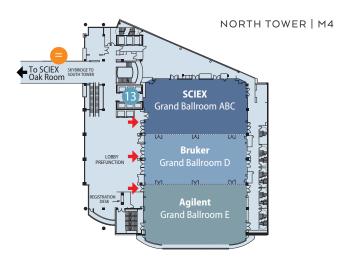


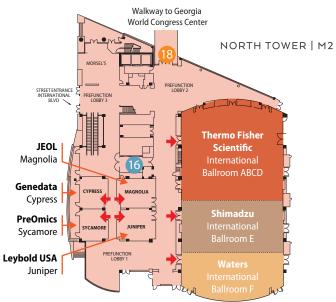


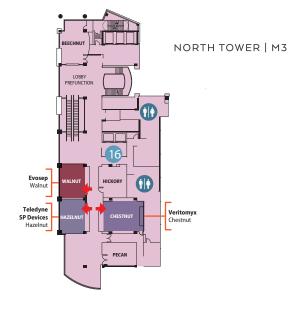


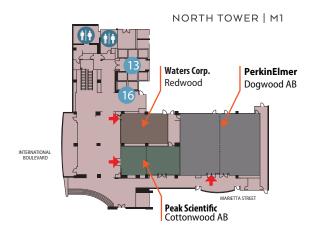


NORTH TOWER









- **ELEVATORS**
- (North Tower M1, M4, N6-28)
- Meeting Room Elevators (North Tower M1-M4)
 - **LANDMARKS**
- Skybridge
- Walkway to Georgia
 World Congress
 Center and College
 Football Hall of Fame
- (II) RESTROOMS



HOSPITALITY SUITES 2019

In Atlanta hospitality suites will continue to embrace the back to basics atmosphere to allow attendees to learn more about the latest and greatest products and services of our Corporate Members while enjoying some fun, food and drink – and conversation.

Conference name badges are required for access to all conference activities including hospitality suites.

MEDIA EVENTS (PRESS CONFERENCES)

The following media events are scheduled Monday, June 3 in the Omni CNN Center Hotel. All press are invited to attend these events.

8:00 - 9:00 amShimadzu Scientific InstrumentsInternational Ballroom E9:30 - 10:30 amBruker DaltonicsGrand Ballroom D11:00 am - 12:00 pmSCIEXGrand Ballroom ABC1:30 - 2:30 pmAgilentGrand Ballroom E

3:00 - 4:00 pm Thermo Fisher Scientific International Ballroom ABCD 4:30 - 5:30 pm Waters Corporation International Ballroom F

BREAKFAST SEMINARS

Breakfast seminars are hosted by Corporate Members at either the Convention Center or the Omni Hotel at CNN Center (inside hospitality suites). Pre-registration (RSVP) is recommended because room set-up and catering are arranged in advance. Please look for Breakfast Seminars page on www.asms.org and in the mobile app to find online registration links.

	CONVENTION CENTER All breakfast se	minars begin at 7:00 am
	Advanced Chemistry Development (ACD/Labs)	Room A313
	Bruker Daltonics	Room A302
ဟ	LECO Corporation	Room A314
ST	MassTech Inc.	Room A315
¥.	Matrix Science	Room A410
3	Pressure BioSciences Inc.	Room A312
MONDAY BREAKFASTS	SCIEX (3)	Rooms A404-405, A406-407, A408
B.	Shimadzu Scientific Instruments	Room A305
Α¥	Waters Corporation	Room A402-403
9	OMNI HOTEL AT CNN CENTER	
<u>o</u>	Agilent Technologies	Grand Ballroom E
2	Thermo Fisher Scientific	International
	memio risilei scientino	Ballroom ABCD
	Waters Corporation	International
	•	Ballroom F
	CONVENTION CENTER All breakfast se	1
	Biognosys	Room A312
	Biotage	Room A316
40	Bruker Daltonics	Room A302
SE	Evosep	Room A311
AS	Genedata	Room A315
A F	LECO Corporation	Room A314
₹	Matrix Science	Room A410
8	New Objective Inc.	Room A313
TUESDAY BREAKFASTS	SCIEX (3)	Rooms A404-405, A406-407, A408
A	Shimadzu Scientific Instruments	Room A305
S	Waters Corporation	Room A402-403
3	OMNI HOTEL AT CNN CENTER	
-	Agilent Technologies	Grand Ballroom E
	Thermo Fisher Scientific	International Ballroom ABCD
	Waters Corporation	International

	CONVENTION CENTER	All breakfast seminars begin at 7:00 am
	Avanti Polar Lipids	Room A410
	Bruker Daltonics	Room A302
₹	LECO Corporation	Room A314
Z S	MassTech Inc.	Room A315
WEDNESDAY REAKFASTS	New Objective Inc.	Room A313
AA	SCIEX (3)	Rooms A404-405, A406-407, A408
	Shimadzu Scientific Instruments	Room A305
≥ 描	OMNI HOTEL AT CNN CE	NTER
	Agilent Technologies	Grand Ballroom E
	Thermo Fisher Scientific	International Ballroom ABCD
	Waters Corporation	International Ballroom F
ဟ	CONVENTION CENTER A	III breakfast seminars begin at 7:00 am
¥E	MassTech Inc.	Room A315
HURSDAY EAKFASTS	SCIEX (3)	Rooms A404-405, A406-407, A408
S 포	Shimadzu Scientific Instruments	Room A305
⊋≝	Thermo Fisher Scientific	Room A302
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Corporate Member	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at at Omni Hotel at CNN Center	Breakfast Seminar
908 Devices	802	Corporate Poster		
AcroMass Technologies, Inc.	724			
ACS Publications	919			
Adaptas Solutions	216	Corporate Poster		
Advanced Chemistry Development (ACD/Labs)	316	Corporate Poster		Conv Ctr Room A313: Mon 6/3
Advion	718			
Agilent Technologies	400	Corporate Poster	Grand Ballroom E	Omni Grand Ballroom E: Mon-Wed (6/3-6/5);
AIM Research Company	224			
Alliance Pharma	202			
Analytical Sales and Services, Inc.	302	Corporate Poster		
Analytical Scientific Instruments US Inc.	318			
Antec Scientific	505	Corporate Poster		
APEX - Alberta Precision Exchange	222			
Apricot Designs	522	Corporate Poster		
ASTA	617	Corporate Poster		
Avanti Polar Lipids, Inc.	199			Conv Ctr Room A410: Wed 6/5
Baran Bioscience, LLC		Corporate Poster		
BaySpec, Inc.	220			
Beckman Coulter	818			
BGI	703			
Bioanalysis Zone	219			
BioChromato	208	Corporate Poster		
Biocrates Life Sciences AG	706			
Biognosys	517			Conv Ctr Room A312: Tue 6/4
Bioinformatics Solutions Inc.	409	Corporate Poster		
Biotage	526			Conv Ctr Room A316: Tues 6/4
Biotech Support Group	719			
Bruker Daltonics	515	Corporate Poster	Grand Ballroom D	Conv Ctr Room A302: Mon-Wed (6/3-6/5)
Cambridge Isotope Laboratories, Inc.	502			
Cayman Chemical Company	710	Corporate Poster		
Cerno Bioscience	909			
ChemoPower Technology	819			
Coann Technologies	423			
Compare Networks		Publisher's Tabletop		
CovalX	299			
CSS Analytical Co. Inc				
CTC Analytics AG	519			
Ebara Technologies	419	Corporate Poster		
Edwards Vacuum	705			
El-Mul Technologies	301			

Corporate Member	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at at Omni Hotel at CNN Center	Breakfast Seminar
e-MSion, Inc.	424			
Entech Instruments	826			
ESI Source Solutions	116			
Evosep	518		Walnut	Conv Ctr Room A311: Tue 6/4
Extrel CMS	325			
Fasmatech	717			
F-DGSi	803			
Fossil Ion Technology	704	Corporate Poster		
Genedata	510	Corporate Poster	Cypress	Conv Ctr Room A315: Tue 6/4
Genetic Engineering & Biotechnology News		Publisher's Tabletop		
GenNext Technologies, Inc.	816			
Genovis Inc	323	Corporate Poster		
GenTech Scientific, Inc.	317			
GERSTEL, Inc.	716			
GL Sciences	215			
Grenova	509			
Hamamatsu Corporation	110	Corporate Poster		
Hamilton Company	307	Corporate Poster		
Harris Corporation	604	Corporate Poster		
HILICON AB		Corporate Poster		
HTX Technologies, LLC	404			
HVM Technology, Inc.	622			
IDEX Health & Science	402	Corporate Poster		
IMCS	305			
Imtakt USA	406			
Institute for Systems Biology	118			
Intavis, Inc	722			
INTEGRA Biosciences	610			
International Ceramic Engineering	217			
International Equipment Trading Ltd	602			
International Labmate Ltd.		Publisher's Tabletop		
Ion Opticks Pty Ltd	524			
IonBench	226			
IONICON	799	Corporate Poster		
Ionoptika Ltd.	707			
Ionsense Inc.	506	Corporate Poster		
IONTOF GmbH	425			
IP2	801			
IROA Technologies LLC	223			
IsoSciences	421			
JASMS	915			
JEOL USA, Inc.	200		Magnolia	



Corporate Member	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at at Omni Hotel at CNN Center	Breakfast Seminar
JG Finneran Associates, Inc.	310			
Kashiyama USA	804			
Kura Biotech Inc.	620	Corporate Poster		
Lab Tech Support	322			
Larodan AB	221			
LCGC/Spectroscopy	702			
LECO Corporation	401	Corporate Poster		Conv Ctr Room A314: Mon-Wed (6/3-6/5)
Leybold USA	403		Juniper	
Linden CMS GmbH	721			
LNI Swissgas	806	Corporate Poster		
MAC-MOD Analytical	720			
MasCom Technologies	615			
MassTech Inc.	624			Conv Ctr Room A315: Mon 6/3, Wed-Thurs (6/5-6/6)
MathSpec, Inc.		Corporate Poster		
Matrix Science	523			Conv Ctr Room A410: Mon-Tue (6/3-6/4)
Matsusada Precision Inc	815			
McKinley Scientific	605			
MDC Vacuum Products LLC	203			
Merck - DUE				
MetaSci Inc.	817			
Microsaic Systems plc	618	Corporate Poster		
Moeller Medical GmbH	810			
Mott Corporation	405	Corporate Poster		
MPF Products Inc	410			
MRM Proteomics	124			
MS Bioworks	319			
MS Ekspert	306			
MS Noise	626			
MSTM, LLC	601			
Nacalai USA	422	Corporate Poster		
National Institute of Standards and Technology (NIST)	616			
Nest Group, Inc., The		Corporate Poster		
New England Biolabs	901			
New England Peptide Inc.	417			
New Objective Inc.	324			Conv Ctr Room A313: Tue-Wed (6/4-6/5)
Newomics Inc.	606			
Novatia LLC		Corporate Poster		
Omics Informatics LLC	321			
Omni International	415			
OMNI Lab Solutions	418	Corporate Poster		

ATLANTA

Corporate Member	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at at Omni Hotel at CNN Center	Breakfast Seminar
Opentrons	905			
Optimize Technologies	700	Corporate Poster		
Parker Hannifin	805			
Peak Scientific	699	Corporate Poster	Cottonwood AB	
PerkinElmer, Inc.	899		Dogwood AB	
Pfeiffer Vacuum	599	Corporate Poster		
Pharmafluidics	303	Corporate Poster		
Phenomenex	508			
Phoenix S&T, Inc.	503			
PHOTONIS	609	Corporate Poster		
Phytronix Technologies	300			
Polymer Factory	520	Corporate Poster		
PreOmics GmbH	407		Sycamore	
Pressure BioSciences Inc.	823			Conv Ctr Room A312: Mon 6/3
Prolab Instruments GmbH	709	Corporate Poster		
Promega Corporation	315			
PROMISE Advanced Proteomics	201	Corporate Poster		
Protein Metrics Inc.	416			
Proteome Software Inc.	725			
PURSPEC Technologies Inc.	218			
Rapid Novor Inc.	723	Corporate Poster		
Ray Biotech	625			
Regeneron Pharmaceuticals	102			
Regis Technologies	808			
Restek Corporation	210			
ReSyn Biosciences	623	Corporate Poster		
SamIn Science Co. Ltd.	309			
Sciencix	106			
SCIEX	500		Grand Ballroom ABC & Oak Room	Conv Ctr Room A404- 405: Mon-Thurs (6/3-6/6); Conv Ctr Room A406- 407: Mon-Thurs (6/3-6/6); Conv Ctr Room A408: Mon-Thurs (6/3-6/6)
Shimadzu Scientific Instruments, Inc.	499	Corporate Poster	International Ballroom E	Conv Ctr Room A305: Mon-Thurs (6/3-6/6)
Shodex, Showa Denko America	304			
Sierra Analytics, Inc.	206	Corporate Poster		
Silantes GmbH	608			
SoCal Bioinformatics, Inc.	715			
Sound Analytics	701			
Spark Holland	603			
SpectralWorks	504	Corporate Poster		
Spectroswiss	516			
Spellman High Voltage Electronics Corp.	420			

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Corporate Member	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at at Omni Hotel at CNN Center	Breakfast Seminar
SPEX SamplePrep LLC	308			
SunChrom GmbH	209			
Synpeptide Co., Ltd.	607			
Tecan	800			
Teledyne SP Devices		Corporate Poster	Hazelnut	
Teledyne Tekmar	320			
The Analytical Scientist		Publisher's Tabletop		
Thermo Fisher Scientific	600		International Ballroom ABCD	Omni International Ballroom ABCD: Mon-Wed (6/3-6/5); Conv Ctr Room A302: Thurs 6/6
Tosoh Bioscience LLC	326			
Trajan Scientific and Medical	100	Corporate Poster		
Veritomyx	809		Chestnut	
VICI Valco Instruments	204	Corporate Poster		
VRS Recruitment	501			
Waters Corporation	399	Corporate Poster	International Ballroom F & Redwood	Omni International Ballroom F: Mon-Wed (6/3-6/5); Conv Ctr Room A402- 403: Mon-Tue (6/3-6/4)
XP Power LLC	205			
Xtreme Power	521			
Zef Scientific, Inc.	621			
Zhejiang Haochuang Biotech Co. Ltd.	619			



PROGRAM ACKNOWLEDGEMENTS



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Susan Richardson University of South Carolina Vice President for Programs

STUDENT ASSISTANTS

Graduate students assist with many aspects of the conference, including registration, oral and poster sessions, and the employment center. The students each receive a stipend to help with their conference travel expenses.

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SATURDAY

9:00 ам - 4:30 рм	SHORT COURSES
2:00 - 5:00 PM	REGISTRATION, Building B Main Lobby

SUNDAY			
9:00 ам - 4:30 рм	SHORT COURSES		
10:00 ам - 8:00 рм	REGISTRATION, Building B Main Lobby		
4:00 - 4:45 рм	ATTENTION: FIRST-TIME GRADUATE STUDENTS AND UNDERGRADUATE STUDENTS Plan your Strategy: What to See and Do at ASMS, B302-305, Level Three		
5:00 - 6:30 рм	TUTORIAL SESSION I, Murphy Ballroom, Bldg. B, Let 5:00 - 5:45 pm Lipidomics	vel Five 5:45 - 6:30 pm Targeted Imaging	
	Stephen Blanksby, Queensland U. of Technology & Gavin Reid, University of Melbourne	Enrico Davoli Mario Negri Institute	

TUTORIAL SESSION II, B302-305, Level Three 5:00 - 5:45 pm **Native Mass Spectrometry**

Michal Sharon Weizmann Institute



5:45 - 6:30 pm Data Independent Acquisition

Birgit Schilling The Buck Institute



6:45 - 7:45 PM CONFERENCE OPENING, Murphy Ballroom, Bldg. B, Level Five **Susan Richardson**, *University of South Carolina*ASMS Vice President for Programs



7:00 - 7:45 pm
Transitioning the World Energy for All Purposes to Stable Electricity
Powered by 100% Wind, Water, and Sunlight

Mark Z. Jacobson Stanford University

7:45 - 9:00 PM WELCOME RECEPTION IN THE POSTER/EXHIBIT HALL Undergraduate Student Poster Competition



MONDAY

7:00 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and Omni CNN Center Hotel	
7:30 AM - 5:00 PM	REGISTRATION, Building B Main Lobby	
8:30 - 10:30 ам	ORAL SESSIONS MOA am: Cannabis Testing, Murphy Ballroom, Bldg. B, Level Five MOB am: Glycopeptides and Glycoproteins, B401-402 MOC am: Membrane Protein MS, B405-407 MOD am: Imaging: Instrumentation & Method Development, B302-305 MOE am: Lipidomics: Targeted and Untargeted, B308-309 MOF am: Fundamentals: Ion Mobility and MS (In Memory of Al Yergey), B312-314 MOG am: Instrumentation: Portable and Transportable Mass Spectrometers, Auditorium, Bldg. A MOH am: Biomarkers: Qualitative Analysis, A411-412	
10:30 ам - 2:30 рм	Poster Session and Exhibits, Monday Posters, Poster/Exhibit Hall ground level Odd-number posters present: 10:30 - 11:30 am PLUS 12:30 - 2:30 pm Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm 11:30 am - 1:00 pm: Undergraduate students look for reserved tables and free lunch vouchers to Meet the Experts	
2:30 - 4:30 рм	ORAL SESSIONS MOA pm: Informatics: Multiomics Integration and Applications, <i>Murphy Ballroom, Bldg. B</i> MOB pm: Homeland Security: Chemical/Biological Defense, <i>B401-402</i> MOC pm: Food Safety & Chemistry: Foodomics, Allergens, Bacteria, Foods, and Supplements, <i>B405-407</i> MOD pm: Therapeutic Proteins, Antibodies, and Antibody/Drug Conjugates, <i>B302-305</i> MOE pm: Lipidomics: New MS Technologies and Applications , <i>B308-309</i> MOF pm: Biomarkers: Quantitative Analysis, <i>B312-314</i> MOG pm: Instrumentation: New Developments in Ionization and Sampling, <i>Auditorium, Bldg. A</i> MOH pm: Art, Archaeology, and Paleontology, <i>A411-412</i>	
4:45 - 5:30 рм	Award Lecture, Murphy Ballroom, Bldg. B, Level Five Award for a Distinguished Contribution in Mass Spectrometry John R. Yates III The Scripps Research Institute	
5:45 - 7:00 рм	 WORKSHOPS There are light refreshments in Building A foyers, 5:30 - 5:45 pm. O1. High Spatial Resolution 2D and 3D Mass Spectrometry Analysis: Current Trends, A402-403 O2. Enhancing MS-Based Glycomics and Glycoproteomics Toolbox: Round-table Discussion, A404-405 O3. MassIVE Translation of Public Mass Spectrometry Big Data into Reusable Community Resources, A406-407 O4. Mass Spectrometry in the Developing World: Supporting Education and Research, A408 O5. Ion Trap Mass Spectrometry: Latest Trends (Ion Trap MS Interest Group), A410 O6. FAIMS/DIMS/DMS Technology and its Impact on Current Day MS Analyses, A307 O7. Food Safety and Quality Applications: Tools for Putting MS Methods into Practice (Flavor Frangrance & Foodstuff Interest Group), A309 O8. Automation for Proteomics Sample Preparation, A311 O9. MS Software: Peak Picking - Paramount Practices and Perilous Pitfalls, A312 O1. Solid Phase Microextraction Approaches Applied with Mass Spectrometry Techniques, A313 O1. LC-MS Jeopardy - I'll Take Increasing Throughput for \$200 (LCMS & Related Topics Interest Group), A315 O1. Art and Cultural Heritage: Mass Spec Applications, A316 O1. Photoionization (APPI/PI) - Bridging the Gap between Academic and Industrial Research (Photoionization MS Interest Group), A303 O1. MS-Based Multi-Attribute Method (MAM): The Future of Biotherapeutic Development Analytics (Biotherapeutics Interest Group), A302 O1. MS Career Options: How to Kick Start Your Career (Young Mass Spectrometrists Interest Group), A301 O1. Membrane Proteins, Nanodiscs, and Beyond: MS Analysis in Academia and Industry, A305 Energy, Petroleum, and Biofuels MS: Targeted Analysis, Fingerprinting and Speciation in Complex Mixtures (Energy Petroleum & Biofuels Interest Group), A304 	
7:00 - 8:00 PM	DINNER BREAK	
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Omni CNN Center Hotel	
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TUESDAY

	IOESDAY			
7:00 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and Omni CNN Center Hotel			
7:30 AM - 5:00 PM	REGISTRATION, Building B Main Lobby			
8:30 - 10:30 ам	ORAL SESSIONS TOA am: Informatics: Innovations, <i>Murphy Ballroom, Bldg. B, Level Five</i> TOB am: Fundamentals: Photoionization and Photodissociation, <i>B401-402</i> TOC am: Native MS in Structural Biology, <i>B405-407</i> TOD am: Imaging: Pharmaceuticals, Metabolites, and Lipids, <i>B302-305</i> TOE am: Environmental: Emerging Contaminants (In Honor of Ron Hites), <i>B308-309</i> TOF am: Protein-Ligand Interactions, <i>B312-314</i> TOG am: MS in the QC Lab, <i>Auditorium, Bldg. A</i> TOH am: Nucleic Acids and Oligonucleotides, <i>A411-412</i>			
10:30 ам - 2:30 рм	Poster Session and Exhibits, Tuesday Posters, Poster/Exhibit Hall ground level Odd-number posters present: 10:30 - 11:30 am PLUS 12:30 - 2:30 pm Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm			
2:30 - 4:30 рм	ORAL SESSIONS TOA pm: Informatics: Data-Independent Acquisition, <i>Murphy Ballroom, Bldg. B, Level Five</i> TOB pm: GC/MS, GCxGC/MS, GC-MS/MS, and GC/HRMS, <i>B401-402</i> TOC pm: Top Down Protein Analysis, <i>B405-407</i> TOD pm: Drug Target Identification by MS, <i>B302-305</i> TOE pm: Food Safety & Chemistry: Innovations, <i>B308-309</i> TOF pm: Cancer Research, <i>B312-314</i> TOG pm: Instrumentation: Innovative Separations Approaches Coupled to MS, <i>Auditorium, Bldg. A</i> TOH pm: Energy, Petroleum, and Biofuels: Instrumentation and Applications, <i>A411-412</i>			
4:45 - 5:30 рм	Award Lecture, Murphy Ballroom, Bldg. B, Level Five Biemann Medal Sarah Trimpin Wayne State University			
5:45 - 7:00 рм	 WORKSHOPS There are light refreshments in Building A foyers, 5:30 - 5:45 pm. O1. Top Down Proteomics: Advancing Widespread Adoption and Expanding Applications (Top-Down Proteomics Interest Group), A402-403 O2. Networking for Scientists: Celebrating Women Mass Spectrometrists (Year 2), A404-405 O3. Say No to Drugs: Forensic Applications Outside of Traditional Illicit Drug Analysis (Forensics & Homeland Security Interest Group), A406-407 O4. Proteoform Identification and Quantification Using Toppic Suite, A408 O5. Protein Biomarkers Method Development & Validation by LCMS, HRMS and Hybrid LBA/LCMS: Recent Advancements (Regulated Bioanalysis Interest Group), A410 O6. Improving Scientific Writing Skills, A307 O7. Metal Ions and Non-Threshold Ion Activation in Biomolecules (Metal Ion Coordination Chemistry Interest Group), A309 O8. Protein Imaging - Are We There? Are All Issues Solved? (Imaging MS Interest Group), A311 O9. Metabolomics: Points of Agreement and Disagreement (Metabolomics Interest Group), A312 10. Environmental MS: Detection of Emerging Contaminants (Environmental Applications Interest Group), A313 11. Visualization, Comparison and Accessibility of Large Data Sets (Analytical Lab Managers Interest Group), A314 12. Advances in Polymer Mass Spectrometry - Architecture (Polymeric Materials Interest Group), A316 13. (Emotional) Intelligence Gathering (Career Development Interest Group), A316 14. MS in Extractable and Leachable Analysis, A303 15. HDX, Covalent Labeling & Cross-Linking: Status of Community-Initiatives and New Developments and Applications (HDX Covalent Labeling & Cross Linking Interest Group), A302 16. Lipidomics: Path to Clinical Utility (Lipids & Lipodomics Interest Group), A307 17. Data Independent Acquisition: Expanding the Scope of DIA Strategies for Quantitative Mass Spectrometry (Data Independent Acquisition Interest Group),			
7:00 - 8:00 рм	DINNER BREAK			
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Omni CNN Center Hotel			
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WEDNESDAY

	WEDNESDAY		
7:00 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and Omni CNN Center Hotel		
7:30 ам - 5:00 рм	REGISTRATION, Building B Main Lobby		
8:30 - 10:30 AM	ORAL SESSIONS WOA am: Metabolomics: New Technologies and Applications, Murphy Ballroom, Bldg. B, Level Five WOB am: Carbohydrates, B401-402 WOC am: Fundamentals for Everyone: Peptides and Proteins, B405-407 WOD am: Microdosing and Microsampling: Analytical Challenges, B302-305 WOE am: Environmental: Innovative Approaches and Instrumentation, B308-309 WOF am: Ion Mobility: New Developments & Applications, B312-314 WOG am: Fundamentals for Everyone: Structural elucidation, Auditorium, Bldg. A WOH am: Synthetic Polymers, A411-412		
10:30 ам - 2:30 рм	Poster Session and Exhibits, Wednesday Posters, Poster/Exhibit Hall ground level Odd-number posters present: 10:30 - 11:30 am PLUS 12:30 - 2:30 pm Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm		
2:30 - 4:30 рм	 ORAL SESSIONS WOA pm: Metabolomics: Untargeted Profiling, Murphy Ballroom, Bldg. B, Level Five WOB pm: Hydrogen-Deuterium Exchange MS: Innovations, B401-402 WOC pm: Forensics: Innovations and Applications, B405-407 WOD pm: Endogenous Protein Biomarkers in Drug Discovery and Development: Quantitative Analysis, B302-305 WOE pm: Clinical Analysis: MS in the Operating Room, B308-309 WOF pm: Ion Mobility: Small Molecules, Pharmaceuticals, and DMPK, B312-314 WOG pm: Instrumentation: Ambient Ionization & Applications, Auditorium, Bldg. A WOH pm: Fundamentals: DDA and DIA LC-MS, A411-412 		
4:45 - 5:30 рм	ASMS MEETING, B302-305, Level Three: Awards, board reports, wine, beer, soft drinks - and more!		
5:45 - 7:00 рм	 WORKSHOPS There are light refreshments in Building A foyers, 5:30 - 5:45 pm. MS-Based Interactomics: Computational Resources and Tools for Studying the Physical Interactome (Bioinformatics MS Interest Group), A402-403 IMS: When Chromatography Just Won't Do (Ion Mobility MS Interest Group), A404-405 Clinical Applications: Standardization and Harmonization Efforts (Clinical Chemistry Interest Group), A406-407 Exposomics Workshop (Exposomics Interest Group), A408 MS-Based Process Analytical Technology (PAT): Testing & Control of CQAs (Pharmaceuticals Interest Group), A410 Endogenous Biomarkers: Measurement to Predict in vivo Drug-Drug Interactions (DMPK Interest Group), A307 The NIH and NSF Review and Funding Process, A309 Why You Should Submit Your Best Manuscripts to JASMS (and Introducing a New Publisher), A311 Metaproteomics for the Masses: Solutions, Opportunities and Challenges, A312 Bridging the Gap between Computational Biology and Biology: Matchmaking Session, A313 Ambient Ionization: Where We Stand Now and Go from Here, A314 The Proteomics Standards Initiative and ProteomeXchange: Supporting Open Data Practices in Proteomics, A315 Fundamentals: Structural Elucidation of Proteins (Fundamentals Interest Group), A303 New Ion Manipulations Prior to FT-MS (FTMS Interest Group), A302 Cannabis and Hemp Testing Requirements: How to Leverage with Mass Spectrometry, A301 Getting Started with R for Mass Spectrometry Data Analysis, A305 Career and Collaboration Opportunities in China, A304 		
7:00 - 8:00 рм	DINNER BREAK		
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Omni CNN Center Hotel		



THURSDAY

THURSDAY			
7:00 AM	CORPORATE BREAKFAST SEMINARS, Convention Center		
7:30 ам - 5:00 рм	REGISTRATION, Building B Main Lobby		
8:30 - 10:30 AM	ORAL SESSIONS ThOA am: Informatics: Metabolomics, <i>Murphy Ballroom, Bldg. B, Level Five</i> ThOB am: Fundamentals: Ion Spectroscopy, <i>B401-402</i> ThOC am: Post-Translational Modifications: Qualitative and Quantitative Analysis, <i>B405-407</i> ThOD am: Drug Discovery and Development: Quantitative Analysis, <i>B302-305</i> ThOE am: Supramolecular and Macromolecular Complexes, <i>B308-309</i> ThOF am: Clinical Analysis Using MS, <i>B312-314</i> ThOG am: Informatics: Stable Isotope Labeling in MS: Applications, <i>Auditorium, Bldg. A</i> ThOH am: Exposomics, Toxicology, and Human Health, <i>A411-412</i>		
10:30 ам - 2:30 рм	Poster Session and Exhibits, Thursday Posters, Poster/Exhibit Hall ground level Odd-number posters present: 10:30 - 11:30 am PLUS 12:30 - 2:30 pm Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm		
2:30 - 4:30 рм	ORAL SESSIONS ThOA pm: Informatics: Peptide and Protein Identification, Proteomics, Murphy Ballroom, Bldg. B ThOB pm: Microorganisms and the Microbiome, B401-402 ThOC pm: Quantitative Proteomics in Systems Biology, B405-407 ThOD pm: Covalent Labeling and Chemical Crosslinking, B302-305 ThOE pm: Plant "omics", B308-309 ThOF pm: Ion Mobility: Structure, B312-314 ThOG pm: Instrumentation: Innovations in Mass Analyzers, Auditorium, Bldg. A ThOH pm: Fundamentals: Ion Activation and Dissociation, A411-412		
4:45 - 5:30 PM	PLENARY LECTURE, Murphy Ballroom, Bldg. B, Level Five		
	Chemistry of Food and Soft Drinks Lilly D'Angelo Global Food & Beverage Technology Associates		
6:30 - 9:00 PM	Georgia Aquarium. Tickets (\$40) must be purchased in advance by Monday 12 noon. Join us for an enchanting evening at the Georgia Aquarium. Dinner buffets close at 8:00 pm, dessert available until close. Ticket includes aquarium entry for our private event, dinner buffet and one drink ticket for soda, beer, or wine. Cash bars available until close		



SUNDAY EVENING, 4:00 - 9:00 PM

4:00-4:45 pm Sunday
Attention First-time Graduate Students and Undergrads
Plan your Strategy: What to See and Do at ASMS
B302-305 Level Three

5:00-6:30 pm Sunday TUTORIAL SESSION I Presiding: Susan Richardson (University of South Carolina) Murphy Ballroom, Bldg B, Level Five





5:00-5:45 pm **Lipidomics**

Stephen Blanksby Queensland University of Technology & Gavin Reid University of Melbourne



5:45-6:30 pm Targeted Imaging

Enrico Davoli Mario Negri Institute

5:00-6:30 pm Sunday TUTORIAL SESSION II Presiding: Erin Baker (North Carolina State University) B302-305 Level 3



5:00-5:45 pm Native Mass Spectrometry

Michal Sharon
Weizmann Institute



5:45-6:30 pm **Data Independent Acquisition**

Birgit Schilling
The Buck Institute

6:45- 7:45 pm Sunday
CONFERENCE OPENING
Presiding: Susan Richardson (University of South Carolina)
Murphy Ballroom, Bldg B, Level Five

Welcome, Susan Richardson *University of South Carolina* ASMS Vice President for Programs

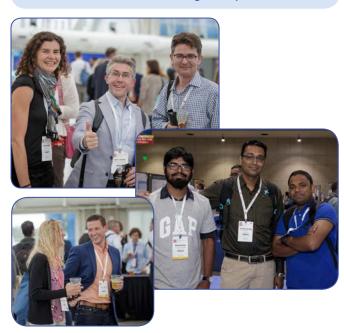


7:00-7:45 pm

Transitioning the World Energy for All Purposes to Stable Electricity Powered by 100% Wind, Water, and Sunlight

Mark Z. Jacobson Stanford University

7:45-9:00 pm Sunday WELCOME RECEPTION Poster/Exhibit Hall (Level One) Conference name badge is required.



MONDAY MORNING ORAL SESSIONS

From 7:00 am Monday
CORPORATE BREAKFAST SEMINARS
CONVENTION CENTER AND OMNI CNN CENTER HOTEL
See page 16 for detailed schedule. Reservation or
RSVP required.

8:30 - 10:30 am Monday CANNABIS TESTING

Session Chair: Jack Henion (Advion, Inc.) Murphy Ballroom, Bldg B, Level 5

MOA am 08:30 Future Opportunities and Challenges in Mass Spectrometry Based Cannabis Analytical QC Testing and Research; Scott Kuzdzal, Ph.D. 1; Andrew P. Fornadel, Ph.D. 1; Jeff H. Dahl, Ph.D. 1; Bob H. Clifford, Ph.D. 1; Nicole H. Lock1; 1Shimadzu Scientific Instruments, Inc., Columbia, MD

MOA am 08:50 Novel HR-ESI-LC/MS and SHS-GC-MS/MS
Methods for Comprehensive Metabolic Profiling
of Phytocannabinoids and Terpenoids in
Cannabis; Paula Berman¹; Anna Shapira¹; Ben
Yellin¹; Gil Lewitus¹; David Meiri¹; ¹Technion - Israel
Institute of Technology, Haifa, Israel

MOA am 09:10

Pesticide Residue Detection in Cannabis and Products using Liquid Chromatography-Mass Spectrometry/Mass Spectrometry (LC-MS/MS); Caley B Craven¹; Ping Jiang¹; Charles A. Lucy¹; Xing-Fang Li¹; ¹University of Alberta, Edmonton, Alberta

MOA am 09:30

Cannabis Testing: Development, Validation, and Implementation of a Patient-centric Microsampling Assay for Analysis of Cannabinoids in Human Whole Blood; Ganesh Moorthy; The Children's Hospital of Philadelphia, Philadelphia, PA

MONDAY MORNING ORAL SESSIONS



MOA am 09:50

The Use of Mass Spectrometry for Quality Control and Understanding the Complex Chemistry of Cannabis and Its Therapeutic Effects; Kaveh Kahen; Sigma Analytical Services, Toronto, ON Specializing Cannabis Cultivation Quality Control with a Mobile Mass Spectrometry Lab; Brigitte Simons¹; Afsoon Pajand Birjandi¹; Hesham Ghobarah²; Ping Jiang³; Hubert Marceau⁴; Alexis St-Gelais⁴; Tariq Akhtar⁵; Xing-Fang Li³; ¹Molecular Science Corp., Toronto, ON; ²Deep Dive Research Inc., Toronto, ON; ³University of Alberta, Edmonton, AB; ⁴Laboratoire PhytoChemia, Chicoutimi, QC; ⁵University of Guelph, Guelph, ON

8:30 - 10:30 am Monday

8:30 - 10:30 am Monday GLYCOPEPTIDES AND GLYCOPROTEINS Session Chair: Shujuan McDonald (Pfizer Inc.) B401-402

MOB am 08:30 Cost-Benefit Analysis of Stepped-Energy
Collisional Dissociation and Electron Transfer
Dissociation Approaches for Intact Glycopeptide
Characterization; Nicholas M Riley¹; Stacy A
Malaker¹; Marc D Driessen¹; Carolyn R Bertozzi¹;
¹Stanford University, Stanford, CA

MOB am 08:50 Finding the Sweetspot of Prostate-Specific
Antigen; Guinevere S.M. Lageveen-Kammeijer¹;
Alan B. Moran¹; Jan Nouta¹; Elena Dominguez-Vega¹;
Manfred Wuhrer¹; ¹Leiden University Medical Center
(LUMC), Leiden, Netherlands

MOB am 09:10 Advanced Data Acquisition and Processing
Approach Increases Glycopeptide Identifications
and Improves Confidence of Assignment; Kevin
Brown Chandler¹; Deborah R Leon¹; Catherine E
Costello¹; ¹Department of Biochemistry, Boston
University School of Medicine, Boston, MA

MOB am 09:30 Large Scale Human Glycoproteomics: Insights into Data Analysis; Kathleen T. Grassmyer¹; Christopher J. Brown¹; Matthew L. MacDonald²; David E. Clemmer¹; Jonathan C. Trinidad¹; *Indiana University Bloomington, Bloomington, IN; *2University of Pittsburgh School of Medicine. Pittsburgh. PA

MOB am 09:50 Absolute Quantitation of the N-Linked Glycoforms of a Biotherapeutic IgG in Complex Mixtures by HILIC-MRM with an Isotopically Labeled Standard; Ron Orlando^{1, 2}; Marla Popov²; Stuart Haslam³; Tyler Fletcher¹; ¹University of Georgia, Athens, GA; ²Glycoscientific LLC, Athens, GA; ³Imperial College, London, United Kingdom

MOB am 10:10 Native Mass Spectrometry Analysis of Glycoprotein-Protein/Ligand Interactions; Di Wu¹; Carol V. Robinson¹; ¹University of Oxford, Oxford, United Kingdom

8:30 - 10:30 am Monday MEMBRANE PROTEIN MS Session Chair: Julien Marcoux (CNRS) B405-407

MOC am 08:30 Lipid-Composition Alters Protein Dynamics of Aquaporin Z Nanodisc; Xin Shan Lim¹; Xin-Xiang Lim¹; Lili Wang¹; Qingsong Lin¹; Ganesh S Anand¹; ¹National University of Singapore, Singapore
MOC am 08:50 Detergent- and Chemical-Free Native Mass

Spectrometry Reveals the Membrane Protein
Complex Ensemble of Whole Membrane
Fractions; Dror Shlomo Chorey¹; Haiping Tang¹; Tom
Durrant¹; Siyun Chen¹; Carol V. Robinson¹; ¹University
of Oxford, Oxford, United Kingdom

MOC am 09:10 Revealing the Structural and Functional Environment of Sialylated Proteins on Cell

Qiongyu Li¹; Yixuan (Axe) Xie¹; Gege Xu¹; Carlito B
Lebrilla¹; ¹University of California, Davis, CA

MOC am 09:30

Localization and Activity of the Metal Centers
of Membrane Complexes Using Micelles and
Nanodiscs Coupled with Native Top-Down Mass
Spectrometry; Luis F. Schachner¹; Soo Y Roo¹;
Christopher W Koo¹; Amy C Rosenzweig¹; Neil L
Kelleher¹; ¹Northwestern University, Evanston, IL

Surfaces by Quantitative Oxidation Mapping;

MOC am 09:50

CellSurfer: An N-Glycoprotein-specific Analysis
Platform for Semi-automated, Quantitative
Discovery of Cell Surface Proteins; Amanda Rae
Buchberger¹; Linda Berg Luecke¹; Rachel A. Jones
Lipinski¹; Ranjuna Weerasekera¹; Matthew Waas¹;
Rebekah L. Gundry¹; 'Medical College of Wisconsin,
Milwaukee. WI

MOC am 10:10 Cytochrome P450s Captured within Lipid
Nanodiscs Reveal Ligand-dependent Shifts in
Gas-phase Stability; Kristine F Parson¹; Colleen M.
Riordan¹; Kathrine Gentry¹; Carlo Barnaba^{1, 2};
Ayyalusamy Ramamoorthy¹; Ryan C. Bailey¹; Brandon
T. Ruotolo¹; 'University of Michigan, Ann Arbor, MI;
'Michigan State University, East Lansing, MI

8:30 - 10:30 am Monday IMAGING: INSTRUMENTATION & METHOD DEVELOPMENT Session Chair: Martina Marchetti-Deschmann (TU Wien) B302-305

MOD am 08:30 SPICIng up your MALDI Image: Enhanced Ion Yields for Numerous Classes of Lipids via Single-Photon-Induced Chemical Ionization; Christoph H.

M. Bookmeyer¹; Jens Soltwisch¹.²; Ulrich Röhling³; Klaus Dreisewerd¹.²; ¹Institute for Hygiene, University of Münster, Münster, Germany; ²Interdisciplinary Center for Clinical Research (IZKF), University of Münster, Münster, Germany; ³Institute of Medical Physics and Biophysics, University of Münster, Münster. Germany

MOD am 08:50 Identification of Phosphatidylcholine Lipids in Imaging Mass Spectrometry Using Gas-Phase Charge Inversion Ion/Ion Reactions Enabled on an FT-ICR Mass Spectrometer; Jonathan T Specker¹; Steve L. Van Orden²; Boone M. Prentice¹; ¹Department of Chemistry, University of Florida, Gainesville, FL; ²Bruker Daltonics Inc., Billerica, MA

MOD am 09:10 Breast Cancer Tumor and Necrosis Associated
Peptide and Glycan Co-Localizations in FFPE
Tissues by MALDI-FTICR Imaging Mass
Spectrometry; Danielle A Scott¹; Laura Spruill¹; Peggi
Angel¹; Richard Drake¹; ¹Medical University of South
Carolina, Charleston, SC

MOD am 09:30 An Integrated Microfluidic Device for High-Resolution Nano-DESI Mass Spectrometry Imaging of Tissue Sections; Xiangtang Li¹; Ruichuan Yin¹; Julia Laskin¹; ¹Purdue University, West Lafayette, IN

MOD am 09:50 LADI of All Trades: Imaging of Small-Molecule Spatial Distributions in Complex Matrices by a Novel Ambient Ionization Imaging Technique;

Kristen L Fowble¹; Rabi A Musah¹; ¹University at Albany-SUNY, Albany, NY

MOD am 10:10 Revealing Isobaric and Isomeric Substructure in Tissue: Advanced Multivariate Analysis for Ion Mobility Imaging Mass Spectrometry; Raf Van de Plas^{1, 2, 3}; Lukasz Migas¹; Nathan Heath Patterson^{2, 3}; Katerina V. Djambazova^{2, 4}; Richard M. Caprioli^{2, 3, 4, 5, 5}; Jeffrey M. Spraggins^{2, 3, 4}; **Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; **PMass Spectrometry Research Center,

MONDAY MORNING ORAL SESSIONS

Vanderbilt University, Nashville, TN; 3Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁴Department of Chemistry, Vanderbilt University, Nashville, TN; 5Department of Pharmacology, Vanderbilt University, Nashville, TN; 6Department of Medicine, Vanderbilt University, Nashville, TN

8:30 - 10:30 am Monday LIPIDOMICS: TARGETED AND UNTARGETED Session Chair: Peggi Angel (Medical University of South Carolina) B308-309

MOE am 08:30 A 'Systems-omics' Strategy to Uncover the Role of Brain Tissue Derived Exosomal Lipids in Alzheimer's Disease; Huaqi (Kate) Su^{1, 2}; Kevin J. Barnham^{1, 2}; Laura J. Vella¹; Gavin E Reid²; ¹Florey Institute of Neuroscience and Mental Health, Parkville, Australia; ²University of Melbourne, Parkville, Australia

MOE am 08:50

Comprehensive Phospholipid Analysis Reveals Alternations in Extracellular Vesicles during Immune Responses; Wenpeng Zhang^{1, 2}; Ying Zhang³; Jiaqi Liang¹; Bing Shang¹; Hang Yin³; Yu Xia^{1, 2}; ¹Department of Chemistry, Tsinghua University, Beijing, China; ²Department of Chemistry, Purdue University, West Lafayette, IN; 3School of Pharmaceutical Sciences, Tsinghua University, Beijing, China

MOE am 09:10

Localizing the Inflammatory Lipid Response to Structurally Engineered Lipopolysaccharide in Mouse Lung; Alison J Scott^{1, 2}; Shane R. Ellis2; Courtney E. Chandler1; Sung Hwan Yoon3; Benjamin L Ovler4: David Robinson Goodlett1: Ron M. A. Heeren²; Robert K. Ernst¹; ¹University of Maryland, Baltimore, Baltimore, MD; 2Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands; 3University of Maryland Baltimore, Baltimore, MD; 4Center for Food Safety and Applied Nutrition, FDA, Silver Spring, MD

MOE am 09:30

Next-Generation Imaging Technologies for 3-D **Multimodal Lipid Atlases**; <u>Jeffrey M Spraggins</u>^{1, 2,} 3; Nathan Heath Patterson^{1, 2}; David M. Anderson^{1, 2}; Jamie Allen^{1, 2}; William J. Perry^{1, 2}; Martin Dufresne^{1,} ²; Lukasz Migas⁴; Danielle Gutierrez^{1, 2}; Eric P. Skaar⁵; Richard M. Caprioli^{1, 2, 3}; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Vanderbilt University Department of Biochemistry, Nashville, TN; 3Vanderbilt University Department of Chemistry, Nashville, TN: 4Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; 5Vanderbilt University Medical Center Department of Pathology, Microbiology and Immunology, Nashville, TN

MOE am 09:50

Integrated Multidimensional Liquid **Chromatography-Ion Mobility-Tandem Mass** Spectrometry (LC-IM-MS/MS) Workflow for High Confidence Annotations in Global Untargeted Lipidomics; Bailey S. Rose¹; Simona G. Codreanu¹; Jody C. May¹; Stacy D. Sherrod¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN

MOE am 10:10 In-Depth Lipidomic Profiling of the Australian Imaging Biomarker and Lifestyle Flagship Study of Aging; Kevin Huynh1; Wei Ling Florence Lim^{2, 3}; Corey Giles⁴; Kaushala S Jayawardana⁴; Pratishtha Chatterjee^{2, 5, 6}; Natalie A Mellett⁴; Ian Martins^{2, 3}; Simon M Laws^{3, 7, 8}; Ashley I Bush⁹; Christopher C Rowe^{9, 10}; Victor L Villemagne^{9, 10,} 11; David Ames 12; Colin L Masters 9; Brian G Drew 1;

Ralph N Martins^{2, 3, 5, 6, 13, 14}; Peter J Meikle^{1, 15}; ¹Baker Heart and Diabetes Institute. Melbourne. Australia: ²School of Medical and Health Sciences, Edith Cowan University, Perth, Australia; 3Cooperative Research Centre (CRC) for Mental Health, Perth. Australia; 4Baker Heart and Diabetes Institute, Melbourne, Australia; 5Department of Biomedical Sciences, Macquarie University, Sydney, Australia; ⁶KaRa Institute of Neurological Disease, Sydney, Macquarie Park, Sydney, Australia; 7Collaborative Genomics Group, School of Medical and Health Sciences, Edith Cowan University, Perth, Australia; ⁸School of Pharmacy and Biomedical Sciences, Faculty of Health Sciences, Curtin Health Innovation, Perth, Australia; 9Florey Department, University of Melbourne, Melbourne, Australia; 10 Department of Nuclear Medicine and Centre for PET, Austin Health, Melbourne, Australia; 11 Department of Medicine, Austin Health, The University of Melbourne, Melbourne, Australia; 12 National Ageing Research Institute, Parkville, Victoria, Australia; 13 School of Psychiatry and Clinical Neurosciences. The University of Western Australia, Perth, Australia; ¹⁴Australian Alzheimer's Research Foundation, Nedlands, Perth, Australia; 15 Monash University, Melbourne, Australia

8:30 - 10:30 am Monday **FUNDAMENTALS: ION MOBILITY AND MS** (IN MEMORY OF AL YERGEY) Session Chair: Stephanie Cologna (University of Illinois at Chicago) B312-314

MOF am 08:30

Ultrahigh Resolution Ion Mobility Separations of Isotopologues and Isotopomers in Multi-Pass Traveling Wave-Based Structures Lossless Ion Manipulations (SLIM); Roza Wojcik1; Gabe Nagy1; Isaac K Attah1: Sandilya V.B. Garimella1: Yehia M Ibrahim1; Richard D. Smith1; 1PNNL, Richland, WA

MOF am 08:50

Fundamental Principles and Experimental Performance of a Novel Counter Flow Ion Mobility Device: U-Shaped Mobility Analyzer; Keke Wang¹; Qiao Jin¹; Xu Zhou¹; Lin Liu¹; Kent J. Gillig²; Xiaoqiang Zhang¹; Lei Wang³; Yilong Guo³; Wenjian Sun¹; ¹Shimadzu Research laboratory (Shanghai) Co. Ltd., Shanghai, China; ²Genomics Research Center, Academia Sinica, Taipei, Taiwan; ³Shanghai Institute of Organic Chemistry, Chinese Academy of Science, Shanghai, China

MOF am 09:10

Maximizing Signal to Noise Ratio for Voltage Sweep Multiplexing-Ion Mobility-Ion Trap Mass Spectrometry; Tobias Reinecke1; Pearl Kwantwi-Barima¹; Brian H. Clowers¹; ¹Department of Chemistry, Washington State University, Pullman, WA

MOF am 09:30

Collision Cross Sections of Phosphoric Acid Cluster Anions and their Use as Calibrants for Traveling Wave Ion Mobility; Valentina Calabrese1; Helene Lavanant¹; Frédéric Rosu²; Valérie Gabelica³; Carlos Afonso¹; ¹Normandie Univ, INSA Rouen, UNIROUEN, CNRS, COBRA, Rouen, France; ²CNRS, UMS 3033, Institut Européen de Chimie et Biologie (IECB), Pessac, France; 3University of Bordeaux, INSERM and CNRS, ARNA Laboratory, IECB, Bordeaux, France

MOF am 09:50

Combining Direct Metalation and Collision-**Induced Unfolding Reveals Structure Changes** of Metallothioneins During Ag+ Metalation; Shiyu Dong1; David H. Russell1; 1Texas A&M University, College Station, TX

MONDAY MORNING ORAL SESSIONS



MOF am 10:10 Advanced Temporal Multiplexing and Peak **Deconvolution for Improved Sensitivity and** Resolution in Ion Mobility-Mass Spectrometry Analysis; Jody C. May1; Richard Knochenmuss2; John C. Fjeldsted³; John A. McLean¹; ¹Vanderbilt University, Nashville, TN; 2RKResearch, Seftigen, Switzerland; ³Agilent Technologies, Santa Clara, CA

8:30 - 10:30 am Monday **INSTRUMENTATION: PORTABLE AND TRANSPORTABLE** MASS SPECTROMETERS

Session Chair: Essyllt Louarn (Université Paris-Sud) Auditorium, Bldg A

MOG am 08:30 Miniature OzID Mass Spectrometer for Clinical Lipid Analysis; Xinwei Liu1; Wenbo Cao2; Xiaoxiao Ma²; Wenpeng Zhang³; Stephen J. Blanksby⁴; Yu Xia^{3, 5}; Zheng Ouyang^{3, 6}; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China; ²State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Bejing, China; ³Department of Chemistry, Purdue University, West Lafayette, IN 47907; 4Central Analytical Research Facility, Queensland University of Technology, Brisbane, Australia; 5Department of Chemistry, Tsinghua University, Beijing, China; 6State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China

MOG am 08:50

MS2field: Automated Real-Time Water Quality Screening with a Transportable LC-HRMS; Michael Stravs¹; Nicole Zehethofer²; Reto Bolliger³; Guenter Boehm3; Thomas Moehring2; Heinz Singer¹; Christian Stamm¹; Christoph Ort¹; ¹Eawag, Duebendorf, Switzerland; ²Thermo Fisher Scientific. Bremen, Germany; 3CTC Analytics AG, Zwingen, Switzerland

Pulse-sampling Assisted Flash Heating

MOG am 09:10

Desorption Miniature Ion Trap Mass Spectrometry with Photoionization for Sensitivity and On-Site Identification of Illegal Drugs: Keyong Hou1; shuang Wang1; Weimin Wang1; Haiyang Li¹; ¹Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian, China

MOG am 09:30

Development and Validation of a Simple Headspace Needle-Trap Method for Quantitative Estimation of Butylated Hydroxyltoluene from Cosmetic by Hand-Portable GC/MS; Chiranjit Ghosh¹; Jonathan Grandy¹; Varoon Singh¹; Janusz Pawliszyn1; 1University of Waterloo, Waterloo, ON

MOG am 09:50

Designing a Magnetic Sector for a Cycloidal Mass Analyzer in a Miniature Mass Spectrometer; Kathleen L Horvath¹; Tanouir Aloui¹; Raul Vyas¹; Maria Luisa Sartorelli1; Yuriy Zhilichev2; Roger P Sperline³; M Bonner Denton³; Patrick Keelan⁴; David Koester¹; Jeffrey T Glass¹; Jason J Amsden¹; Jesko A von Windheim¹; ¹Duke University, Durham, NC; ²Independent, Durham, NC; ³University of Arizona, Tucson, AZ; ⁴PFT Technology, Long Island, NY

MOG am 10:10

Demonstration and Verification of the Pyrolysis and Derivatization GCMS Capabilities of the Mars Organic Molecule Analyzer (MOMA) Mass Spectrometer; Desmond A. Kaplan¹, ²; Melissa Guzman³; Fabien Stalport⁴; Noel Grande⁴; Cyril Szopa^{3, 5}; Caroline Freissinet⁶; Arnaud Buch⁷; Andrej Grubisic²; Ryan M. Danell², 8; Friso Van Amerom⁹; Xiang Li^{2, 10}; Stephanie A.

Getty2; William B. Brinckerhoff2; Paul R. Mahaffy2; ¹KapScience LLC, Tewksbury, MA; ²NASA Goddard Space Flight Center, Greenbelt, MD; 3LATMOS/ IPSL. Université Versailles St Quentin. UPMC Université Paris 06, CNRS, Guyancourt, France; ⁴Laboratoire Interuniversitaire des Systèmes Atmosphériques (LISA), Paris, France; 5Institut Universitaire de France, Paris, France; 6LATMOS/ IPSL, UVSQ Université Paris-Saclay, Paris, France; ⁷CentraleSupelec, Paris, France; ⁸Danell Consulting, Inc., Winterville, NC; 9Mini-Mass Consulting, Inc, Hyattsville, MD; 10 University of Maryland, College Park, MD

8:30 - 10:30 am Monday **BIOMARKERS: QUALITATIVE ANALYSIS** Session Chair: Jason Hogan (Bristol-Myers Squibb) A411-412

MOH am 08:30 Proteomic Assessment of Synapses with Rich **Associated Clinical Data Highlight Potential** Targets for Mediating Alzheimer's Pathology and Cognitive Decline; Becky C Carlyle^{1, 2}; Savannah E. Kandigian¹; Bianca A. Trombetta¹; Wilhelm Haas¹, ²; Steven E. Arnold^{1, 2}; ¹Massachusetts General Hospital, Charlestown, MA; 2Harvard Medical School, Boston, MA

MOH am 08:50

Proteome Profiling of Multiple Sclerosis Cerebrospinal Fluid by Data Independent Acquisition Reveals Disease Biomarkers; David R. Spiciarich1; Christopher T. Harp1; Ann E. Herman¹; W. Rodney Mathews¹; Veronica G. Anania1; 1Genentech, Inc., South San Francisco, CA

MOH am 09:10

Urine Metabolomics of Children with Autism Spectrum Disorder (ASD) Treated with Sulforaphane; Roshanak Aslebagh1; Kanwaljit Singh²; Michelle L. Dubuke¹; Andrew W. Zimmerman²; Scott A. Shaffer¹; ¹Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA; 2Department of Pediatrics (Neurology), University of Massachusetts Medical School, Worcester, MA

MOH am 09:30

Unraveling a Complex Immunoprotein Profile in Multiple Myeloma with Middle-Down de novo **Sequencing and Native Mass Spectrometry:** Valerie J Winton^{1, 2}; W Ian Deighan³; Lissa C. Anderson⁴; Rafael D. Melani^{1, 2}; Luis F. Schachner¹; Feargal P McNicholl³; John P. McGee¹; Romain Huguet⁵; Philip M Remes⁵; Christopher Mullen⁵; Paul M Thomas^{1, 2}; Neil L Kelleher^{1, 2}; ¹Northwestern University, Evanston, IL; 2Proteomics Center of Excellence, Northwestern University, Chicago, IL; 3Altnagelvin Hospital, Londonderry, United Kingdom; ⁴National High Magnetic Field Laboratory, Tallahassee, FL; 5Thermo Fisher Scientific, San Jose CA

MOH am 09:50

Proteogenomic Analyses of Peptide Ancestry Informative Markers in Uterine Neoplasms from Women of European, African and Asian Descent; Nicholas W Bateman^{1, 2}; Brian Hood¹; Christopher Tarney¹; Michael Kessler³; Zhou Ming⁴; Alexander Wong¹; Anthony R Soltis⁵; Xijun Zhang⁵; Clifton Dalgard⁵; Mathew Wilkerson⁵; Kathleen Darcy¹, ²; Yovanni Casablanca^{1, 2}; George Larry Maxwell^{1,} ^{2,4}; Timothy O'Connor³; Thomas P. Conrads^{1,2,} ⁴; ¹Gynecologic Cancer Center of Excellence, Annandale, VA; 2John P. Murtha Cancer Center, Bethesda, MD: 3Institute for Genome Sciences and the Department of Medicine University of Maryland



School of Medicine, Baltimore, MD: 4Inova Schar Cancer Institute, Annandale, VA; 5The American Genome Center, Uniformed Services University, Bethesda, MD

MOH am 10:10 BloodKB: An Open Community-Scale Knowledge Base for Blood-Related Proteome and Peptidome Diversity; Benjamin Pullman1; Julie S Wertz¹; Nuno Bandeira¹; ¹University of California, San Diego, La Jolla, CA

Alexander S. Hebert1; Nicholas W Kwiecien1; Ian J

10:30 am-2:30 pm Monday **MONDAY POSTER SESSION** Poster/Exhibit Hall ground level Lunch concessions are open 11:00 am - 2:00 pm

Odd-number posters present:

10:30 am - 11:30 am PLUS 12:30- 2:30 pm

Even-number posters present:

10:30 am - 12:30 pm PLUS 1:30- 2:30 pm Poster Pick-Me-Up Snacks served at 1:30 pm

11:30 am - 1:00 pm **Undergraduate Students** "Meet the Experts" at tables reserved for you.

MONDAY AFTERNOON ORAL SESSIONS

2:30 - 4:30 pm Monday Miller1; Michael S Westphall1; David J Pagliarini2; **INFORMATICS: MULTIOMICS INTEGRATION AND APPLICATIONS** Joshua J Coon^{2, 3, 4, 5}; ¹University of Wisconsin Session Chair: Ewy Mathe (Ohio State University Medical Center) - Madison, Madison, WI; 2Morgridge Institute Murphy Ballroom, Bldg B, Level 5 for Research, Madison, WI; 3Genome Center of MOA pm 02:30 ProteomicsDB: A Big-Data, Multi-Omics, Wisconsin, Madison, WI; ⁴Department of Chemistry, Multi-Organism Resource for Life Science University of Wisconsin, Madison, WI; 5Department Research; Patroklos Samaras1; Tobias Schmidt1; of Biomolecular Chemistry, University of Wisconsin-Pia Bothe¹; Martin Frejno¹; Siegfried Gessulat¹, Madison, Madison, WI ²; Jana Zecha¹; Anna Jarzab¹; Maria Reinecke¹; MOA pm 04:10 More Than Just a List: An Accessible Julia Mergner¹; Piero Giansanti¹; Johannes and Flexible Informatics Environment for Rank³; Harald Kienegger³; Helmut Krcmar³; Hans-Proteogenomic Data Processing, Interpretation Christian Ehrlich²; Stephan Aiche²; Bernhard and Hypothesis-Generation; Timothy J. Griffin1; Kuster^{1, 4}; Mathias Wilhelm¹; ¹Chair of Proteomics Praveen Kumar^{1, 2}; James E. Johnson³; Thomas McGowan³; Ray W. Sajulga¹; Subina Mehta¹; Pratik and Bioanalytics, Technical University of Munich, Freising, Germany: 2SAP SE, Potsdam, Germany: D. Jagtap¹: ¹University of Minnesota, Minneapolis, ³Chair for Information Systems, Technical University MN; 2Bioinformatic and Computational Biology of Munich, Munich, Germany; 4Bavarian Center Program, University of Minnesota, Rochester, MN; for Biomolecular Mass Spectrometry, Freising, ³Minnesota Supercomputing Institute, University of Minnesota, Minneapolis, MN Germany Cognitive Re-Analysis of Metabolomics Data MOA pm 02:50 Reveals Newly-Associated Metabolite Biological 2:30 - 4:30 pm Monday HOMELAND SECURITY: CHEMICAL/BIOLOGICAL DEFENSE **Functions and Mechanistic Predictions of** Activity; Erica Majumder¹; Elizabeth M Billings¹; H. Session Chair: Carolyn Koester Paul Benton¹; Richard L Martin²; Amelia Palermo¹; (Lawrence Livermore National Laboratory) Carlos Guijas¹; Markus M Rinschen¹; Xavier B401-402 Domingo-Almenara¹; J. Rafael Montenegro-Burke¹; Infrared Thermal Desorption DART-MS of Trace MOB pm 02:30 Gary Siuzdak1; 1The Scripps Research Institute, La **Explosive Fuel-Oxidizer Mixtures: Powders,** Jolla, CA; 2IBM Watson Health, Cambridge, MA Propellants, and Pyrotechnics; Thomas P. MOA pm 03:10 **Data Integration of Proteomics and** Forbes¹; Jennifer R. Verkouteren¹; Edward Sisco1; Matthew Staymates1; 1National Institute of Metabolomics from Sugarcane Leaves upon Water Deficit: Ilara Gabriela Frasson Budzinski1; Standards and Technology, Gaithersburg, MD Fabrício Edgar de Moraes¹; Thais Regiani Cataldi¹; MOB pm 02:50 **Screening of Chemical Warfare Agent Simulants** Livia Maria Franceschini¹; Carlos Alberto Labate¹; and Hydrolysis Products in Soil Using Paper **Spray Mass Spectrometry**; <u>Sarah Dowling</u>¹; Trevor Glaros²; Nicholas Manicke¹; ¹IUPUI, Indianapolis, ¹ESALQ, Piracicaba, Brazil MOA pm 03:30 Linking Cell Lines to Proteotypes: A Proteome-Level Analysis of Protein Interactions, IN; ²ECBC, Aberdeen Proving Ground, MD **Expression Levels, and Post-Translational Traceable Opioid Material Kits for Mass** MOB pm 03:10 Modifications; Edward L. Huttlin1; Raphael J Spectrometric Opioid Detection in U.S. Bruckner¹; Jose Navarrete-Perea¹; David Nusinow¹; Laboratories; Mike A Mojica1; Melissa Carter1; Brandon M. Gassaway1; Fana Gebreab1; Kurt Samantha L Isenberg¹; Cody I Sheppard¹; Elizabeth Baltier¹; Melanie Gygi¹; Laura Pontano Vaites¹; Joao I. Hamelin¹; Rebecca L. Shaner¹; Craig Seymour¹; Rudolph C. Johnson¹; ¹CDC, Atlanta, GA A. Paulo¹; J. Wade Harper¹; Steve Gygi¹; ¹Harvard Medical School, Boston, MA MOB pm 03:30 **Mass Spectrometric Detection and** A Web-based Platform for Data Exploration Characterization of Botulinum Neurotoxins; MOA pm 03:50 and Its Application to Multi-omic Profiling of a Suzanne R. Kalb1; John R. Barr1; 1CDC, Atlanta, GA Fast and Efficient Immuno-MALDI Proteomics Large CRISPR Knockout Collection; Dain Ryan MOB pm 03:50 Brademan¹; Evgenia Shishkova¹; Jarred Rensvold²; for Reliable Quantification of Abrin Toxin in Paul D Hutchins¹; Sean Peters¹; Adam Jochem²; Complex Food Matrices; Sandrine Livet1; Sylvia

Worbs²; Eva Hansbauer¹; Hervé Volland³; Stéphanie

MONDAY AFTERNOON ORAL SESSIONS



Simon³; Christophe Junot⁴; François Fenaille¹; Brigitte Dorner²; Francois Becher¹; ¹CEA Saclay, Service de Pharmacologie et Immunoanalyse (SPI) - Laboratoire d'Etude du Métabolisme des Médicaments, Gif-Sur-Yvette, France; ²Robert Koch Institute, Biological Toxins - Centre for Biological Threats and Special Pathogens, Berlin, Germany; ³CEA Saclay, Service de Pharmacologie et Immunoanalyse (SPI) - Laboratoire d'Etude et de Recherche en Immunoanalyse, Gif Sur Yvette, France; ⁴CEA Saclay, Service de Pharmacologie et Immunoanalyse (SPI), Gif Sur Yvette, France Highly Accurate Classification of Biological

MOB pm 04:10

Highly Accurate Classification of Biological Spores by Culture Medium for Forensic Attribution Using Multiple Chemical Signature Types and Machine Learning; Paul J. Ippoliti¹; Michael Crenshaw¹; Michael Sworin¹; Frances E. Nargi¹; Tara L. Boettcher¹; Matthew E. Walsh¹; Amanda M. Casale¹; Jason J. Han¹; Joshua R. Dettman¹; ¹MIT Lincoln Laboratory, Lexington, MA

2:30 - 4:30 pm Monday FOOD SAFETY & CHEMISTRY: FOODOMICS, ALLERGENS, BACTERIA, FOODS, AND SUPPLEMENTS Session Chair: Michelle Colgrave (CSIRO) B405-407

MOC pm 02:30 Towards a Proper Drop Time for Coffee Beans during Roasting with Maximized Antioxidant Capacity Using Photoionization Mass Spectrometry; Jan Heide¹; Hendryk Czech¹; Patrick Martens¹; Michael Wendler¹; Sven Ehlert¹; Andreas Walte²; Ralf Zimmermann¹; ¹University of Rostock, Rostock, Germany; ²Photonion GmbH, Schwerin, Germany

MOC pm 02:50 A PRM-based MS Method for Detection of Milk-Derived Ingredients from a Processed Food Matrix; Bini Ramachandran¹; Shyamali Jayasena¹; Charles T Yang²; Melanie Downs¹; ¹Food Allergen Research and Resource Program, University of Nebraska, Lincoln, NE; ²Thermo Fisher Scientific, San Jose, CA

MOC pm 03:10 Development of an Encyclopedia of Food Carbohydrates: A Rapid-Throughput LC-MS Based Approach to Global Carbohydrate Analysis of 1000 Foods; Matthew Amicucci¹; Eshani Nandita¹; Ace G. Galermo²; Thai-Thanh T Vo²; Megan Lee²; Carlito B Lebrilla²; Yiyun Liu²; ¹University of California Davis, CA; ²University of California, Davis, CA

MOC pm 03:30 A Novel Dereplication Strategy for Comprehensive Studying the Unique Composition of Saponins in Taiwan Quinoa Using High-Resolution Mass Spectrometry;
Hong-jhang Chen¹; Gui-ru Xie¹; ¹National Taiwan University, Taipei, Taiwan

MOC pm 03:50 A Novel, Step-Wise Nutrimetabolomics Approach Reveals Small Molecule-Associated Changes in a DASH-Diet Study; Nichole Reisdorph¹; Mlnghua Tang¹; Audrey Hendricks¹; Katrina Doenges¹; Richard Reisdorph¹; Brian Tooker¹; Kevin Quinn¹; Wayne Campbell²; Nancy Krebs¹; ¹University of Colorado Anschutz Medical Campus, Aurora, CO; ²Purdue University, West Lafayette, IN

MOC pm 04:10 Fast Profiling and Classification of Wines and Wine Quality via SAWN-MS; Alina Astefanei¹; Roselina Medico¹; Lauren Pintabona¹; Petra Jansen¹; Garry Corthals¹; ¹University of Amsterdam, Amsterdam, Netherlands

2:30 - 4:30 pm Monday THERAPEUTIC PROTEINS, ANTIBODIES, AND ANTIBODY/DRUG CONJUGATES Seesion Chair: Phonochyl Bosel (Amgen)

Session Chair: Dhanashri Bagal (Amgen) B302-305

MOD pm 02:30 Characterizing and Quantitating
Biotransformation of Larger Atypical Antibody
Therapeutics Using Affinity Capture and
SampleStream™ for Intact Protein Mass
Spectrometry; John C. Tran¹; Hae-Min Park²;
Wenjing Li¹; Neha Srikumar¹; Cong Wu¹; Phillip
Y. Chu¹; William S. Sawyer¹; Yichin Liu¹; Phillip D.
Compton³; ¹Genentech, South San Francisco, CA;
²Proteomics Center of Excellence, Northwestern
University, Chicago, IL; ³Integrated Protein
Technologies, Inc., Evanston, IL

MOD pm 02:50

Discovery of Bioactive Proteins Derived from Scorpion Venom using Two Dimensional Mass Spectrometry; Meng Li¹; Pui Yiu Lam¹; Peng Chen²; Remy Gavard¹; Kung Ching Cookson Chiu¹; Qiong Wu²; Christopher A. Wootton¹; Mark P. Barrow¹; Hongzheng Fu²; Peter B. O'Connor¹; ¹University of Warwick, Coventry, United Kingdom; ²Peking University, Beijing, China

MOD pm 03:10 Intact Protein Mass Spectrometry Guiding Cell Line Development for Tri-specific Antibodies;

Fateme Tousi¹; Yan Jiang¹; Susan Elliott¹; Anthony Paiva¹; Karen Albee¹; Karen Lee¹; ¹Sanofi,

Framingham. MA

MOD pm 03:30 Cation-Exchange Chromatography – Mass Spectrometry and Top-Down Analysis of Therapeutic Proteins; Rachel Liuqing Shi¹; Gang Xiao¹; Thomas M Dillon¹; Margaret S Ricci¹; Pavel V. Bondarenko¹; 'Amgen, Inc., Thousand Oaks, CA Direct Determination of Antibody Chain Pairing by Top Down Mass Spectrometry Using

by Top-Down Mass Spectrometry Using Electron Capture Dissociation and Ultraviolet Photodissociation; Weijing Liu¹; Neha Malhan¹; Yury V. Vasil'ev².³; Joseph S. Beckman².³; Valery G. Voinov².³; Jared B. Shaw¹; ¹Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA; ²e-Msion Inc., Corvallis, OR; ³Linus Pauling Institute, Oregon State University, Corvallis, OR

MOD pm 04:10 Collision Induced Unfolding Enables the Rapid Analysis of Stressed Monoclonal Antibodies and Biosimilars; Daniel D Vallejo¹; Daniel A. Polasky¹; Jukyung Kang²; Kathryn D. Kulju¹; Alexander Benet²; Ruwan T Kurulugama³; John C. Fjeldsted³; Anna Schwendeman²; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Department of Pharmaceutical Science, University of Michigan, Ann Arbor, MI; ³Agilent Technologies, Inc., Santa Clara, CA

2:30 - 4:30 pm Monday LIPIDOMICS: NEW MS TECHNOLOGIES AND APPLICATIONS Session Chair: Christina Jones (NIST) B308-309

MOE pm 02:30 Quantitative Lipidomics Profiling Reveals
Metabolic Subphenotypes in a Cross-Sectional
Human Cohort; Daniel Hornburg¹; Kevin
Contrepois²; Sara Ahadi³; Kegan Moneghetti³; Si
Wu³; Ming-Shian Tsai²; Eric Wei²; Jeniffer Quijada²;
Francois Haddad²; Michael Snyder²; ¹Stanford,
Palo Alto, CA; ²Stanford University, Stanford, CA;
³Stanford University, Palo Alto, CA

MOE pm 02:50

Genome-Guided Lipid Identification - A Novel Aid for Hopeless Cases; Vanessa Linke¹; Ian J Miller¹.

²; Dain Ryan Brademan¹; Paul D Hutchins¹; Edna A Trujillo¹; Thiru R Reddy³; Jason D Russell³; Kathryn

MONDAY AFTERNOON ORAL SESSIONS

	L Schueler ¹ ; Donald S Stapleton ¹ ; Mary E Rabaglia ¹ ; Mark P Keller ¹ ; Daniel M Gatti ⁴ ; Greg Keele ⁴ ; Duy Pham ⁴ ; Gary A Churchill ⁴ ; Alan D Attie ¹ ; Joshua J Coon ^{2, 3, 5, 6} ; ¹ University of Wisconsin, Madison, WI; ² Genome Center of Wisconsin, Madison, WI; ³ Morgridge Institute for Research, Madison, WI; ⁴ The Jackson Laboratory, Bar Harbor, ME; ⁵ Department of Chemistry, University of Wisconsin,	MOF pm 03:50	SASP Atlas: A Database of Senescent Cell Secretomes; Nathan Basisty ¹ ; Abhijit Kale ¹ ; Okhee Jeon ¹ ; Chisaka Kuehnemann ¹ ; Therese Payne ¹ ; Chirag Rao ¹ ; Anja Holtz ¹ ; Samah Shah ¹ ; Judith Campisi ^{1,2} ; Birgit Schilling ¹ ; ¹ The Buck Institute for Research on Aging, Novato, CA; ² Lawrence Berkeley Laboratory, Berkeley, CA One Injection Does It All: Small Molecule Drug
MOE pm 03:10	Madison, WI 53706; ⁶ Department of Biomolecular Chemistry, University of Wisconsin-Madison, WI Rapid and Simple Differentiation of Lipid Regioisomers in Complex Biological Samples; Johan Lillja ¹ ; Kyle D. Duncan ¹ ; Pontus Gieselsson ² ; Fredrik Palm ¹ ; Ingela Lanekoff ¹ ; ¹ Uppsala University, Uppsala, Sweden; ² Lund University, Lund, Sweden		Pharmacokinetics (PK), Drug Metabolites, and Pharmacodynamics (PD) Biomarkers; Steven Gernhardt ¹ ; Brendan Tierney ² ; Gang Xing ³ ; Amit Kalgutkar ³ ; Christopher Holliman ² ; Ragu Ramanathan ² ; ¹ Pfizer, Groton, CT; ² Pfizer Inc., Groton, CT; ³ Pfizer WRD, Cambridge, MA
MOE pm 03:30	Conformational Lipid Atlas for High Confidence Lipidomics; Katrina L. Leaptrot ¹ ; Jody C. May ¹ ; James N. Dodds ² ; John A. McLean ¹ ; ¹ Vanderbilt, Nashville, TN; ² North Carolina State University,		2:30 - 4:30 pm Monday ATION: NEW DEVELOPMENTS IN IONIZATION AND SAMPLING nair: Emmanuelle Claude (Waters Corporation)
MOE pm 03:50	Raleigh, NC A Novel Solid Phase Sample Preparation Method for Lipidomic Analysis of Plasma Samples; James A. Apffel¹; Limian Zhao²; Mark Sartain¹; ¹Agilent Laboratories, Santa Clara, CA; ²Agilent Technologies, Wilmington, DE	MOG pm 02:30	Auditorium, Bldg A iTrEnDi on Biomolecules and Beyond: Enhancing MS-Based Quantitative Analyses Using New in Situdiazoalkane Chemistry; Samuel W Shields¹; Peter Pallister¹; Christian Rosales¹; Carlos R Canez¹.²; Karl V Wasslen¹; John Rivada¹;
MOE pm 04:10	Laser-Ablation Rapid Evaporative Ionization Mass Spectrometry (LA-REIMS) for Fast Lipidomic Analysis of Genetically Modified CHO Cells in Ambient Conditions; Stefania Maneta-Stavrakaki¹; Alvaro Perdones-Montero¹;	MOG pm 02:50	Chelsey Aulenback¹; Joshua Roberts¹; Fraser Colquhoun¹; Jeff Manthorpe¹; <u>Jeffrey C. Smith</u> ¹; ¹Carleton University, Ottawa, ON; ²University of Alberta, Edmonton, AB Integration of a Picodroplet Microfluidic Chip
	Simon Cameron ¹ ; Julia Abda ¹ ; Yuen-Ting Chim ² ; Paloma Diaz-Fernandez ² ; Zoltán Takáts ¹ ; ¹ Imperial College London, London, United Kingdom; ² GSK, Stevenage, United Kingdom		with Mass Spectrometry - A Step towards High Throughput Directed Evolution Screening; Emily E. Kempa¹; Clive A. Smith²; Xin Li²; Perdita E. Barran¹; ¹The University of Manchester, Manchester, United Kingdom; ²Sphere Fluidics Limited,
2:30 - 4:30 pm Monday BIOMARKERS: QUANTITATIVE ANALYSIS Session Chair: Suraj Saraswat (ARUP Lab) B312-314		MOG pm 03:10	Cambridge, United Kingdom Deep-ultraviolet Laser Ablation Sampling for Mass Spectrometry; Remilekun O. Lawal ¹ ; Fabrizio Donnarumma ¹ ; Kermit K. Murray ¹ ; ¹ Louisiana State
MOF pm 02:30	Targeted Metabolomic Analysis of Urine for Validating Diagnostic Biomarkers of Asthma and COPD; Mona M. Khamis¹; Hanan Awad¹; Darryl J Adamko²; Nancy Klemm³; Teagan Holt¹; Mays Al-Dulaymi⁴; Anas El-Aneed¹; ¹College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, Saskatchewan; ²2Department of Pediatrics, College of Medicine, Saskatoon, Saskatchewan; ³Brandenburg University of Technology Cottbus-Senftenberg, Senftenberg, Germany; ⁴Department of Pediatrics, College of Medicine, Saskatoon, Saskatchewan	MOG pm 03:30	University, Baton Rouge, LA Direct Thermal Analysis Methods as Sample Introduction for High-Resolution Mass Spectrometry – Molecular Level Description of Heavy Petroleum Fractions; Christopher Paul Rüger ^{1,2,3} ; Uwe Käfer ^{2,4} ; Johann Le Maître ^{3,5} ; Anika Neumann ^{1,2} ; Oscar Lacroix Andrivet ³ ; Marie Hubert-Roux ³ ; Benoit Paupy ⁵ ; Sabrina Marceau ⁵ ; Thomas Gröger ⁴ ; Martin Sklorz ^{2,4} ; Carlos Afonso ³ ; Pierre Giusti ⁵ ; Ralf Zimmermann ^{1,2,4} ; ¹ University of Rostock, Institute of Chemistry, Division of Analytical and Technical Chemistry, Rostock, Germany;
MOF pm 02:50	Development and Quantitative Characterization of a Reproducible Method for Proteomic Analysis of Circulating Extracellular Vesicles; Patrick Vanderboom ¹ ; Gregory N Ruegsegger ¹ ; Katherine A Klaus ¹ ; Dawn M Morse ¹ ; Surendra Dasari ¹ ; Ian R Lanza ¹ ; Sreekumaran Nair ¹ ; ¹ Mayo Clinic, Rochester, MN		² Joint Mass Spectrometry Centre, University of Rostock, Rostock, Germany; ³ Normandy University, COBRA laboratory, Mont Saint Aignan, France; ⁴ Joint Mass Spectrometry Centre, Comprehensive Molecular Analytics, Helmholtz Zentrum München, Neuherberg, Germany; ⁵ Total Research & Technology Gonfreville, Harfleur, France
MOF pm 03:10	The Role of Mass Spectrometry in Newborn Screening for Krabbe Disease; Sara E Smith ¹ ; Jim DiPerna ¹ ; Melissa Longua ¹ ; Erica L Fox ¹ ; ¹ PerkinElmer Genomics, Pittsburgh, PA	MOG pm 03:50	More Inclusive Ionization Demonstrated for Direct Bacteria Differentiation by Combining Automated ESI, MAI, and SAI Methods; Charles N McEwen ¹ ; Darrell Marshall ² ; Santosh Karki ^{2, 3} ; Milan
MOF pm 03:30	An Innovative Multi Point Internal Calibrator (MPIC) Isotopic Dilution Strategy for Biomarker Quantitation by LC-MS/MS; Shaoxia Yu¹; Guowen Liu¹; Thomas Roddy¹; Max Lein¹; Dongwei Zhu¹; Rohini Narayanaswamy¹; Unnati Kapadnis¹; Hua Yang¹; Jose Castro-Perez¹; ¹Agios Pharmaceuticals, Cambridge, MA	MOG pm 04:10	Pophristic ² ; Khoa Hoang ¹ ; Sarah Trimpin ³ ; Adetoun Adenijii-Adele ¹ ; John W Tomsho ¹ ; ¹ Univ. of the Sciences, Philadelphia, PA; ² MSTM, LLC, Newark, DE; ³ Wayne State University, Detroit, MI T-MALDI-2-Orbitrap MS: Sensitive Ion Imaging with Sub-Micrometer Resolution and ppm Mass Accuracy; Marcel Niehaus ¹ ; Jens Soltwisch ^{1, 2} ; Mikhail Belov ³ ; Klaus Dreisewerd ^{1, 2} ; ¹ Institute of

MONDAY AFTERNOON ORAL SESSIONS AND 5:45 - 7:00 PM MONDAY WORKSHOPS



Hygiene, University of Münster, Münster, Germany; ²Interdisciplinary Center for Clinical Research (IZKF), University of Münster, Münster, Germany; ³Spectroglyph, LLC, Kennewick, WA

2:30 - 4:30 pm Monday
ART, ARCHAEOLOGY, AND PALEONTOLOGY
Session Chair: Julie Arslanoglu
(The Metropolitan Museum of Art)
A411-412

MOH pm 02:30

New Molecular Evidence of Restoration Treatments Applied to Historic Coptic Manuscripts Using Protein Crosslinking and Top Down Proteomics; Francesca Galluzzi^{1, 2}; Catherine M. Rawlins^{1, 2}; Stéphane Claverol²; Federica Pozzi³; Maria Fredericks⁴; Franck Trujillo⁴; Caroline Tokarski^{1, 2}; *Institute of Chemistry and Biology of Membrane and NanoObjects, UMR CNRS 5248, Bordeaux, France; *Proteome Platform, Center of Functional Genomics of Bordeaux, University of Bordeaux, Bordeaux, France; *3Department of Scientific Research, The Metropolitan Museum of Art, New York, NY; *Thaw Conservation Center, The Morgan Library & Museum, New York, NY

MOH pm 02:50

A Minimally Invasive and Portable Tool for MS Identification of Proteins in Ancient Paintings; Georgia Ntasi¹; Paola Cicatiello¹; Gennaro Marino¹. ²; Paola Giardina¹; Leila Birolo¹; ¹Dept. Chemical Sciences, University of Naples Federico II, Naples, Italy, Naples, Italy; ²BIOGEM Institute, Ariano Irpino (AV), Italy, Ariano Irpino (AV), Italy

MOH pm 03:10

Early Pleistocene (1.8 million years old)
Enamel Proteome Sequences Resolve
Stephanorhinusphylogeny; Enrico Cappellini¹;
Frido Welker¹; Jazmin Ramos Madrigal¹; Diana
Samodova²; Patrick L. Ruether²; Jesper V. Olsen²;
David Lordkipanidze³; Eske Willerslev¹; ¹Natural
History Museum of Denmark, Copenhagen,
Denmark; ²NNF Center for Protein Research
University of Copenhagen, Copenhagen, Denmark;
³Georgian National Museum, Tbilisi, Georgia

MOH pm 03:30

Single-Pot Solid-Phase-Enhanced Sample Preparation (SP3) for Bone Paleoproteomics; <u>Timothy Cleland</u>; *Museum Conservation Institute,* <u>Smithsonian Institution, Suitland, MD</u>

MOH pm 03:50

DeamiDATE 1.0: Site-Specific Deamidation as a Tool to Assess Authenticity of Members of Ancient Proteomes; Abigail Ramsøe^{1,2}; Vivian van Heekeren¹; Ian Barnes²; Camilla Speller³; Matthew J Collins^{4,5}; ¹BioArCh, Department of Archaeology, University of York, York, United Kingdom; ²Department of Earth Sciences, Natural History Museum, London, United Kingdom; ³Department of Anthropology, University of British Columbia, Vancouver, BC; ⁴EvoGenomics Section, Natural History Museum of Denmark, University of Copenhagen, Copenhagen, Denmark; ⁵McDonald Institute for Archaeological Research, Downing St, Cambridge, United Kingdom

MOH pm 04:10

A Proteomic Workflow to Extract, Concentrate, Digest, and Enrich Peptides from Fossils with High Humic Content for Mass Spectrometry Analyses; Elena R. Schroeter¹; Kevin Blackburn²; Michael B. Goshe¹; Mary H. Schweitzer¹; ¹North Carolina State University, Raleigh, NC; ²Waters Corporation, Milford, MA

4:45-5:30 pm Monday AWARD LECTURE Richard A. Yost (University of Florida), presiding Murphy Ballroom, Bldg B, Level 5

Presentation of the Al Yergey MS Scientist Award Jeffrey Shabanowitz, *University of Virginia*



John B. Fenn Award for a Distinguished Contribution in Mass Spectrometry

John R. Yates III
The Scripps Research Center

5:45 - 7:00 PM MONDAY WORKSHOPS

There will be light refreshments in Building A foyers. All workshops are in Building A.

01 High Spatial Resolution 2D and 3D Mass Spectrometry
Analysis: Current Trends
Presiding: Francisco Fernandez-Lima, Christopher Anderson,
Gregory Fisher
A402-403

Advances on 2D and 3D Mass Spectrometry analysis currently drive research in biological, biomedical, materials, environmental and forensic sciences. With the development of new and the incorporation of hyphenated techniques during 2D and 3D MS analysis, the MS community needs to further develop universal analysis and data processing protocols; definitions; reference guidelines; standard reference materials; and inter-laboratory comparisons.

In this third workshop, we will provide a short overview of the state of the art from experts in the field and provide ample time for discussion focused on the definitions of and protocols for testing performance metrics; strategies for sample preparation; data analysis, data processing and data reporting workflows.

A preliminary list of topics will include:

- i) Fundamentals of high spatial resolution in 2D and 3D MS analysis (tutorial)
- ii) Overview of current and new imaging modalities: challenges and perspectives
- iii) Influence of instrument settings and use of standards for 2D and 3D MS imaging
- iv) 2D and 3D MS imaging data in public repositories: vendor and user's perspectives $\,$

The workshop encourages the participation and presentations of new investigators, postdocs and graduate students. A combination of short presentations (2-3 slides/group) from representatives of the 2D and 3D MS imaging techniques, with a balance between academic, national laboratories and industrial researchers will be followed by an open discussion forum. One of the goals of this workshop is to gather researchers and enable the discussion towards the development of an interest group within the ASMS community to address these new scientific challenges.

5:45 - 7:00 PM MONDAY WORKSHOPS



02 Enhancing MS-Based Glycomics and Glycoproteomics Toolbox: Round-table Discussion Presiding: Yehia Mechref A404-405

Glycosylation is a prevalent posttranslational modification of proteins in mammalian cells. Many proteins act through oligosaccharide recognition. Glycosylation of proteins is one of the most common protein posttranslational modifications. The glycans of the membrane or secreted glycoproteins are responsible for modulating and controlling many of the biological roles of these glycoproteins, including cell signaling, adhesion, and communication. Protein folding, stability, and localization are dependent on protein glycosylation. A correlation between changes in the glycans of glycoproteins and many mammalian diseases, such as hereditary disorders, immune deficiencies, cardiovascular disease, and cancer has been, suggested. This and the biological roles of glycans have created a demand for reliable glycomics and glycoproteomics strategies, permitting sensitive monitoring of glycans in biological systems. Mass spectrometry-based glycomics and glycoproteomics methods, glycan and glycoproteins standards and bioinformatics tools are continuously being introduced. However, glycomics and glycoproteomics strategies are far from being routing or automated as proteomics strategies. This workshop will focus on discussing and highlighting what needs to be done to attain complete automation of glycomics and glycoproteomics analyses. The workshop will have a roundtable format and will not include any presentations. The workshop will be addressing questions to be solicited from glycomics and glycoproteomics experts in advance of the meeting, including but not limited to, what is hindering the automation of glycome and glycoproteome analysis, why are glycomics and glycoproteomics strategies not as routinely used as proteomics strategies, how can we overcome the lack of reliable standards, and why a uniform bioinformatics tools are lacking.

03 MassIVE Translation of Public Mass Spectrometry Big Data into Reusable Community Resources Presiding: Nuno Bandeira, Mingxun Wang A406-407

The productive reutilization of the very large volumes of public proteomics and metabolomics mass spectrometry data continues to be hindered by significant challenges in the limited findability, accessibility and integration of datasets and reanalysis results. This workshop will focus on approaches addressing these challenges by i) systematically reanalyzing public data using open-source advanced algorithms, ii) reorganizing reanalysis results into open community-scale knowledge bases, and iii) integrating global results into freely-accessible data analysis workflows available free of charge to all research labs.

This workshop is designed to be highly interactive and will aim to inform as well as to promote discussion about ways in which public mass spectrometry big data can be made most useful for the community as a whole.

04 Mass Spectrometry in the Developing World: Supporting Education and Research Presiding: Kym Faull, Giles Edwards A408

This will be a follow-up to the workshops on the same topic presented at the 2017 and 2018 Indianapolis and San Diego ASMS meetings. The point will be to report on progress and interest during the preceding 12 months. Students in developing nations learn about mass spectrometry from text books. They rarely if ever get to actually see one, and never get to use them. Old but working instruments that are replaced with new versions could be made available to Universities and research organizations in developing countries to be used for research and teaching purposes. This would entail shipping, installation, training and maintenance which would all require funding and support. Some aspects of maintenance and training could probably be handled remotely via email, Skype, etc. This would be a noble aspiration for ASMS to embrace. It would improve our relations with the developing

world and perhaps provide an example for other organizations (e.g. the NMR Society, etc) to follow. The Presiders will begin with a brief description of their personal experiences that stimulated them to organize this workshop. There is a need to formulate a plan of action that will assist with moving this initiative forward in the USA. There is a lot of interest but a way of cutting through the various layers of red tape that is currently impeding the mission is needed. All those interested are invited to join in a friendly and constructive discussion on this topic.

05 Ion Trap Mass Spectrometry: Latest Trends (Ion Trap MS Interest Group) Presiding: Glen Jackson, Desmond Kaplan A410

The Ion Trap Interest Group Meeting will cover the latest trends in instrumentation and applications in ion trap mass spectrometry. Instrumentation topics will cover some of the latest developments in instrument design, miniaturization, hybrid instruments and scanning methods. Applications will cover some of the latest trends in MSn, ion/molecule and ion/ion reaction methods. The workshop will consist of lightning-fast talks to introduce the topics and extended question and answer sessions to discuss, among other details, the limitations to commercialization of new advances.

06 FAIMS/DIMS/DMS Technology and its Impact on Current Day MS Analyses Presiding: Sue Abbatiello A307

The goal of this workshop is to provide a forum for people interested in High-field Asymmetric Waveform Ion Mobility Spectrometry (FAIMS) and Differential Ion Mobility Spectrometry (DIMS or DMS). We will go over the basics and fundamentals of how FAIMS/DIMS/DMS works, differences in hardware, the effects of different parameters on performance, and how it is different than Drift-Tube Ion Mobility (DT-IMS). Examples of applications benefiting from FAIMS/DIMS/DMS will be discussed, and attendees are invited to bring their questions and experiences of success, uncertainty, and even bad luck, to share with the community. Discussion will be led by several subject matter experts.

07 Food Safety and Quality Applications: Tools for Putting MS Methods into Practice (Flavor Fragrance & Foodstuff Interest Group) Presiding: Melanie Downs, James Redwine A309

Mass spectrometry can be used to solve a number of different types of food safety and quality issues, but validation and implementation of methods across diverse food products and individual scenarios can be challenging. This workshop will discuss tools currently available and in development for food safety and quality MS analysis applications, including reference materials, method validation schemes, and other resources. The format of the workshop will include brief introductory presentations from selected resource developers and users, followed by a panel discussion moderated by the interest group co-chairs.

08 Automation for Proteomics Sample Preparation Presiding: Michael Ford, Michael Knierman A311

The performance of modern mass spectrometers and liquid chromatography systems is enabling proteomics experiments with previously unobtainable throughput and sensitivity. The analysis of cohorts of 50 or more samples, with acquisition timelines of a week or so, is now routine in many labs. Combined with robust sample preparation workflows and turnkey data processing proteomics is delivering on the promise and approaching a new level of usefulness. Assay and sample type aside it is fair to say, for proteomics experiments, the bottleneck is still instrument time. That said sample preparation is a significant use of human resources and with the scale of experiments expanding so too is the associated time and investment in labor. A practical solution to ease the growing sample preparation burden is automation.

5:45 - 7:00 PM MONDAY WORKSHOPS



There will be light refreshments in Building A foyers. All workshops are in Building A.

Automated sample preparation solutions are not new to the field of proteomics, look back ten years or so and 2D gel spot picking and in-gel digestion robots were common. Presently, and looking ahead, however the requirements of the field have changed; solution digestion, target enrichment at the protein and proteome level and sample clean-up are a few of the time-consuming tasks that would benefit from automation. Vendors have stepped up to deliver automation solutions such as the Agilent AssayMap, ThermoFisher KingFisher and more recent low cost OpenTrons OT2. This workshop is an opportunity to get together with like-minded scientists and discuss the emerging role of automation in sample preparation for proteomics experiments and to share practical experience with automation.

09 MS Software: Peak Picking - Paramount Practises and Perilous Pitfalls Presiding: Magnus Palmblad, Jeff Agar A312

The MS Software workshop is aimed at anyone who either writes MS software or is interested in learning how to. In this workshop, we will discuss the state of the art in peak picking, existing solutions, and common pitfalls.

Peak picking is a vital step in the interpretation of mass spectrometry data. Peak picking algorithms and their parameters influence your abundance accuracy, your false negative (missed peaks) and false positive (noise peaks erroneously detected that go on to be assigned) rates, and can even affect your mass accuracy. Peak shapes and the concept of spectral accuracy can be used to detect chimeric, unresolved, peaks and to help define instrument performance.

Peak picking, in the simplest sense, is the process of determining the mass-to-charge ratio (m/z) and abundance of peaks in mass spectra. When MS is hyphenated with other separation techniques, peak picking can be done on multidimensional data including tandem m/z, retention time or mobility. For the purposes of the discussion in this workshop, we will focus on the one-dimensional case of peaks in a mass spectrum.

When planning this year's workshop, we polled a number of stakeholders in the community. Peak picking was the most popular topic among those suggested. Learning from the feedback from the 2018 workshop, we will allocate most of the time to discussions and have only a short introduction to the topic. We will also discuss reference datasets with ground truth suitable for evaluating peak picking algorithms.

10 Solid Phase Microextraction Approaches Applied with Mass Spectrometry Techniques Presiding: Janusz Pawliszyn A313

The workshop is targeted at both new and current solid phase microextraction (SPME) users. The primary goal of this workshop is to provide interested participants with deeper insight into the main principles of this technique, which will ultimately enhance the productivity and quality of the analytical results. This workshop will be of interest to analytical and clinical chemists, laboratory supervisors, scientists and industry regulators in the environmental, food and beverage, pharmaceutical, clinical, forensic, cosmetic, and industrial hygiene fields. High throughput capabilities of the technology will be emphasized in the discussions including direct coupling to mass spectrometry via direct analysis in real time (DART), coated blade spray (CBS), microfluidic open interface (MOI) and others. The unique features of in vivo SPME sampling technologies will be of particular interest to researchers in biomedical, neurobiological and life sciences.

Agenda/Speakers

- Introduction to SPME and Bio-SPME; Janusz Pawliszyn (University of Waterloo)
- Ambient Ionization and SPME: A Perfect Complement; Robert B. (Chip) Cody (JEOL USA, Inc.)

- Rapid Determination of β-agonists in Animal Urine by Coated Blade Spray - Mass Spectrometry; Marco Blokland (RIKILT Wageningen University)
- Coated Blade Spray Mass Spectrometry (CBS-MS) for Clinical Toxicology Testing in Urine; Shirin Hooshfar (University of California, San Francisco)
- In vivo SPME of Eicosanoids in Brain; Dajana Vuckovic (Concordia University)
- Determination of Cannabinoids using SPME Coupled to MS/LEI via MOI Interface; Achille Cappiello (University of Urbino)

12 LC-MS Jeopardy - I'll Take Increasing Throughput for \$200 (LCMS & Related Topics Interest Group) Presiding: Erik Soderblom, Will Thompson A315

Need a break from formal talks? Already an expert in LC-MS and want to impress your friends? Not an expert and want to learn something about LC-MS? Just like games where you win "cash"? Well, this workshop is for you! Although the Jeopardy board has been cleared and refreshed from last year, the LC-MS and Related Topics Interest Group Workshop will remain focused on audience-driven discussions around various aspects of Proteomics, Pharmacokinetics, Metabolomics, Laboratory Automation, and Increasing Sample Throughput, all in a "Jeopardy" format! Early rounds will provide an opportunity to share, learn about, and discuss new and emerging strategies and applications in these various areas. Later rounds will be specific scenarios or analytical problems which are in need of solutions! Not only will creative, insightful, and thought provoking considerations be discussed, but will earn you and your team ASMS Jeopardy Cash (redeemable for free beers at ASMS Hospitality Suites).

13 Art and Cultural Heritage: Mass Spec Applications Presiding: Mehdi Moini A316

The purpose of this workshop is to discuss the application of MS to art and cultural heritage objects, as well as natural history specimens. This will be an interactive workshop in which various subjects relevant to museums' specimens will be discussed in a casual, dialog format. A preliminary list of topics include: 1) Analysis of paint, coating and binders; textiles; bone and tissue; ink and paper. 2) Mechanism of aging and degradation of art and natural history objects. 3) Dating. 4) Impact of radiation on museums' specimens. 5) Fossilomics and ancient DNA. 6) Forensic archeology. 7) Species identification of proteinaceous materials used in work of art and natural history. 8) Identification of forgery.

14 Photoionization (APPI/PI) - Bridging the Gap between Academic and Industrial Research (Photoionization MS Interest Group) Presiding: Sven Ehlert, Eleanor Riches, Matthias Lorenz A303

Photoionization is a powerful tool for soft ionization mass spectrometry (PI-MS) in research and routine analytical applications. After concentrating on the fundamentals of atmospheric pressure (APPI) and vacuum (SPI and REMPI) photoionization for mass spectrometry in the last year's workshop, we want to turn our view to the future of photoionization and discuss with the attendees challenges, ideas and new approaches. One or two key thought leaders will address the topic to stimulate discussion. The focus will be on the interface between academic and industrial research - what are the specific needs, capabilities and perspectives to bridge the gap with (AP)PI MS? As a result of last year's workshop survey, we put the focus of this workshop on the discussion between participants. If it is appropriate and there is sufficient time, there will also be the chance for attendees to share novel and exciting developments with the PI community. Furthermore, we want to give attendees with different experience levels the opportunity to get in contact to discuss challenges as well as ask

questions to the experts and more experienced users.

5:45 - 7:00 PM MONDAY WORKSHOPS



There will be light refreshments in Building A foyers. All workshops are in Building A.

Together with the attendees, we want to reveal the advantages, capabilities and diversity of photoionization mass spectrometry to support its dissemination into laboratories worldwide.

15 MS-Based Multi-Attribute Method (MAM): The Future of Biotherapeutic Development Analytics (Biotherapeutics Interest Group) Presiding: Andrew Dawdy, Hao Zhang A302

Join our panel of experts to discuss the future of MAM, an emerging mass spectrometry-based methodology with the potential to significantly transform standard analytical practice for biotherapeutic development across the biopharma industry. In the development of biotherapeutics, a thorough understanding of a molecule's product quality attributes (PQAs) and their effect on its structure and function is essential for ensuring safety and efficacy of the clinical trial material. Numerous routine chromatographic and electrophoretic assays, intended for batch release, are used to characterize and monitor the PQAs that contribute to product-related heterogeneity such as N-glycosylation, charge isoforms, oxidation, fragmentation, and aggregation. However, execution of multiple routine methods for batch release, stability time-points, and process/formulation development support becomes time and resource intensive, and often provides an indirect measure of biologically-relevant PQAs. Recently, a liquid chromatography-mass spectrometry-based multi-attribute method (MAM) has arisen (Rogers et al., AAPS J, 2017) as an improved means for detecting, identifying, and quantitating a multitude of PQAs in an automated fashion by a single assay. In its short public lifespan, MAM's popularity has exploded as evidenced by the formation of an industrywide MAM Consortium, assessment of its suitability by the FDA, and the rapid growth in MAM-centric products from numerous vendors. MAM is poised to revolutionize the biopharmaceutical industry if fully embraced and adopted. This workshop will provide a forum to discuss the status of MAM and address existing challenges. Topics may include sample preparation, instrumentation, software/data processing, hotspot characterization, new peak detection, regulatory acceptance, qualification and validation, and more.

16 MS Career Options: How to Kick Start Your Career (Young Mass Spectrometrists Interest Group) Presiding: Veronica Anania, Sharon Pitteri A301

This workshop features a panel discussion on professional development in the area of mass spectrometry. Topics will be focused on career planning and management, fundamental training, industrial internship, job search tools and interview strategies. The panel, consisting of representatives from industrial and academic organizations, will share their knowledge and practices on career prospects.

17 Membrane Proteins, Nanodiscs, and Beyond: MS Analysis in Academia and Industry Presiding: Iain Campuzano, Michael Marty A305

Membrane proteins make up over 50% of possible "druggable" targets, making them very attractive targets for academic and industrial research. Membrane proteins are inherently insoluble in aqueous solvents and require the presence of lipid or detergent to remain soluble, which makes their analysis by many biophysical techniques such as native mass spectrometry (MS) and x-ray crystallography very challenging. However, over the past 10 to 15 years, researches have begun to overcome such hurdles and are now producing native intact mass spectra for membrane protein complexes of ion channels, membrane bounds receptor molecules, transporters, and fully assembled lipoprotein nanodiscs.

Most of this pioneering work has been focused on native MS in the academic environment. Native MS analysis of membrane proteins within the pharmaceutical industry is still in its infancy compared to established structural biology techniques such as x-ray diffraction and cryo-EM.

Within this workshop, we will discuss MS experiments for characterizing intact membrane proteins under denaturing and native conditions, focusing on current protocols used within both academia and industry for native MS analysis of membrane protein solubilized in "MS-friendly" detergents. We will also discuss how these techniques can be used to support the structural biology and drug discovery efforts within the pharmaceutical industry.

The workshop will be a panel discussion format where general and detailed topics can be discussed.

A preliminary list of discussion topics will include:

- MS determination of membrane proteins using denaturing LC and MS conditions
- Membrane protein purification and detergent screening for optimal MS analysis
- · Native MS instrumentation and analysis of membrane proteins
- · New frontiers in membrane mimetics: nanodiscs and beyond
- The industrial perspective on membrane protein MS

18 Energy, Petroleum, and Biofuels MS: Targeted Analysis, Fingerprinting and Speciation in Complex Mixtures (Energy Petroleum & Biofuels Interest Group) Presiding: Marianny Combariza, Amy McKenna A304

Fossil- and bio- fuels are complex mixtures containing thousands of compounds with different molecular compositions; which in turn determine macroscopic properties. In petroleum chemistry, for instance, low MW components of low and medium polarity are well studied and understood. However, trace amounts of heavier and polar components, less known compositionally, are usually very reactive and responsible for many problems. For instance, asphaltenes, naphthenic acids and metal complexes can cause aggregate formation, corrosion and catalyst poisoning, during transport, storage and refining of petroleum. Yet, due to lower ionization efficiencies than their low MW counterparts, these compounds remain undetected in direct infusion MS analysis of the whole oil.

Correlating compositional data to macroscopic behavior is paramount to future energy research, with HRMS playing a vital role at providing molecular information. Complex organic mixture analysis by MS has prompted development of novel ionization sources and techniques, off- and on-line chromatographic methods, and data processing algorithms. Despite many efforts to overcome the limitation of ion suppression in these polydisperse systems, compound classes present in low concentration still remain undetected. Often, these species are responsible for performance issues of final products derived from the raw feeds. Therefore, targeted analysis, fingerprinting and selective speciation of chemical functional groups is emerging as the next big advancement in MS of complex mixtures. In this workshop, practitioners from these areas will present the development and applicability of their strategies of analysis, and will participate in a panel discussion with the audience.

 $\label{topics: Selective ionization, selective fractionation, derivatization, structure-related separation.$

TUESDAY MORNING ORAL SESSIONS



From 7:00 am Tuesday **CORPORATE BREAKFAST SÉMINARS CONVENTION CENTER AND OMNI CNN CENTER HOTEL** See page 16 for detailed schedule. Reservation or RSVP required.

> 8:30 - 10:30 pm Tuesday **INFORMATICS: INNOVATIONS**

Session Chair: David Stranz (Sierra Analytics, Inc.) Murphy Ballroom, Bldg B, Level 5

TOA am 08:30 Differential Mass Spectra (ΔS) and Differential Ion Currents (AIC) for Smarter Mass

> Spectrometer Operation and Data Interpretation: Changtong Hao¹; Thomas Lee Collier¹,²; Lawrence Klecha¹; Simon Prosser¹; Daniel Eikel¹; ¹Advion Inc., Ithaca, NY; 2Harvard Medical School, Boston, MA

TOA am 08:50 XNet: A Bayesian Approach to Extracted Ion **Chromatogram Clustering for Precursor Mass** Spectrometry Data; Mathew M Gutierrez¹; Kyle Handy¹; Rob Smith¹; ¹University of Montana

Missoula, MT

TOA am 09:10 KairosMS: Processing of Complex Mixture Data Analyzed by Hyphenated Ultrahigh Resolution

Mass Spectrometry; Remy Gavard1; Hugh E. Jones¹; Diana Catalina Palacio Lozano¹; Mary J. Thomas1; David Rossell1,2; Simon E. F. Spencer1; Mark P. Barrow¹; ¹University of Warwick, Coventry, United Kingdom; ²Universitat Pompeu Fabra,

Barcelona, Spain

TOA am 09:30 Zero-Knowledge de novo and the Alphabet

Projection of Spectra; Patrick Kreitzberg1; Marshall Bern²; Oliver Serang¹; ¹University of Montana, Missoula, MT; 2Protein Metrics Inc., San Carlos, CA

TOA am 09:50 **Fast and Accurate Estimation of Relative**

Molecule Abundance and Resolution of Overlapping Isotopic Envelopes Using Optimal Transport Theory; Michał Aleksander Ciach^{1,2}; Grzegorz Skoraczyński¹; Szymon Majewski³; Błażej Miasojedow¹; Michał Piotr Startek¹; Dirk Valkenborg², 4,5; Anna Gambin1; 1Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Warsaw, Poland; 2Centre for Statistics, Hasselt

University, Diepenbeek, Belgium; 3Mathematical Institute of the Polish Academy of Sciences, Warsaw, Poland; 4UA-VITO Center for Proteomics, University of Antwerp, Antwerp, Belgium; 5Applied Bio and Molecular Systems, Flemish Institute for Technological Research (VITO), Mol. Belgium

TOA am 10:10 ab initio Prediction of Peptide Tandem Mass Spectra; Kaiyuan Liu1; Sujun Li1; Lei Wang1; Yuzhen

Ye1; Haixu Tang1; 1 Indiana University, Bloomington, IN

8:30 - 10:30 pm Tuesday **FUNDAMENTALS: PHOTOIONIZATION AND PHOTODISSOCIATION**

Session Chair: Hendrik Kersten (University of Wuppertal) B401-402

APPI-MS Analysis of Endohedral Fullerenes; TOB am 08:30

Julie Herniman1; G. John Langley1; Sally Bloodworth¹; Richard J Whitby¹; Gabriela Sitinova¹; ¹University of Southampton, Southampton, United

Kingdom

TOB am 08:50 Right-Angle Ion Mirror-Prism (RAIMP): First

Experiments with the Novel Time-of-Flight Mass Analyzer; Igor V. Veryovkin1; Raveendra C. Wickramasinghe¹; Igor L. Bolotin¹; Jason M. Gross¹; C. Emil Tripa¹; Luke Hanley¹; ¹University of Illinois at

Chicago (UIC), Chicago, IL

TOB am 09:10 Improved Top-Down de novo Sequencing of Denatured and Native Proteins Using Hybrid Ion Activation Methods; Weijing Liu1; Kira Vyatkina2;

Jared B. Shaw1; 1Pacific Northwest National Laboratory, Richland, WA; 2St. Petersburg Academic University, St. Petersburg, Russia

Peptide and protein fragmentation using 193 nm TOB am 09:30

UVPD on a Q-IM-TOF platform; Alyssa Q. Stiving1 ²; Sophie R. Harvey^{1, 2}; Benjamin J. Jones^{2, 3}; Bruno Bellina⁴; Perdita E. Barran⁵; Jeffery M. Brown⁶; Vicki H. Wysocki2, 3; 1The Ohio State University, Columbus, OH; 2Resource for Native Mass Spectrometry Guided Structural Biology, The Ohio State University, Columbus, OH; 3The Ohio State University, Columbus, OH; 4Manchester Institute of Biotechnology, University of Manchester, United Kingdom; 5Manchester Institute of Biotechnology, University of Manchester, United Kingdom; 6Waters Corporation, Wilmslow, United Kingdom

TOB am 09:50 **Enhanced Characterization of Membrane Protein** Complexes Using Ultraviolet Photodissociation: Sarah N Sipe1; John W Patrick2; Arthur

Laganowsky²; Jennifer S Brodbelt¹; ¹Department of Chemistry, University of Texas, Austin, TX; ²Department of Chemistry, Texas A&M University, College Station, TX

TOB am 10:10 **Chiral Analysis Base on Mass Spectrometry** and Photodissociation Spectroscopy in the

Gas Phase: from IR to UV; Xianglei Kong; Nankai

University, Tianjin, China

8:30 - 10:30 pm Tuesday **NATIVE MS IN STRUCTURAL BIOLOGY** Session Chair: Rita Grandori (University of Milano-Bicocca) B405-407

Native MS-Based Platform for Screening Optimal TOC am 08:30

Conditions in Preparing Intact Macromolecular Assemblies for cryo-EM Analysis; Paul Dominic B. Olinares¹; Courtney Chiu²; Jin Young Kang²; Eliza Llewellyn2; James Chen2; Ruth Saecker2; Elizabeth Campbell²; Seth Darst²; Brian T. Chait¹; ¹Laboratory of Mass Spectrometry & Gaseous Ion Chemistry, The Rockefeller University, New York, NY; ²Laboratory of Molecular Biophysics, The

Rockefeller University, New York, NY

TOC am 08:50 **Exploring the Structure and Specificity of** Antimicrobial Peptides in Lipid Nanodiscs by Native MS; Larry Walker¹; Elaine Marzluff²; Marius Kostelic1; Julia Townsend1; Michael Thomas

Marty¹; ¹University of Arizona, Tucson, AZ; ²Grinnell

College, Grinnell, IA

Interaction of Metals with Amyloid Beta and TOC am 09:10 Alpha-Synuclein Studied by Native FTICR-MS

with Advanced Dissociation Methods; Frederik Lermyte1; Francesca Bellingeri1; James Everett2; Jake Brooks1; Yuko P. Y. Lam1; Christopher A. Wootton1; Mark P. Barrow1; Peter J. Sadler1; Neil D. Telling²; Joanna F. Collingwood¹; Peter B. O'Connor1; 1 University of Warwick, Coventry, United Kingdom; ²Keele University, Stoke-on-Trent, United Kingdom

Development of High Throughput Online Native TOC am 09:30

LC/MS; Chris Nortcliffe1; Esme Candish2; Sibylle Heidelberger³; Ferran Sanchez⁴; Sean McCarthy²; ¹AB Sciex UK Ltd, Warrington, United Kingdom; ²Sciex, Framingham, MA; ³SCIEX, Warrington, United Kingdom; 4SCIEX, Darmstadt, Germany

TUESDAY MORNING ORAL SESSIONS

TOC am 09:50

Analysis of Diubiquitin Chains by Variable-Temperature Electrospray Ionization Provides Evidence for Seven Non-Native Solution States and Stabilities; Lucas W. Henderson¹; Tarick J. El-Baba¹; Shannon A. Raab¹; Christopher J. Brown¹; Daniel W. Woodall¹; David E. Clemmer¹; ¹Department of Chemistry, Indiana University, Bloomington, IN

TOC am 10:10

Analysis of Diubiquitin Chains by Variable-Temperature Floating No. 100.

Multistage Native MS Enables Direct Identification of Unknown Ligands Bound to Protein Assemblies; Joseph F Gault¹; Idlir Liko²; Michael Landreh³; Hsin-Yung Yen²; Denis Shutin¹; Rosa Viner⁴; Romain Huguet⁴; Christopher Mullen⁴; John E. P. Syka⁴; Jesse D Canterbury⁴; Philip M Remes⁴; Graeme McAlister⁴; Carol V. Robinson¹; ¹Oxford University, Oxford, United Kingdom; ²OMass Therapeutics, Oxford, United Kingdom; ³Karolinska Institutet, Stockholm, Sweden; ⁴Thermo Fisher Scientific, San Jose, CA

8:30 - 10:30 pm Tuesday IMAGING: PHARMACEUTICALS, METABOLITES, AND LIPIDS Session Chair: Uwe Karst (University of Münster) B302-305

TOD am 08:30 High-Performance MS Strategies Provide
Detailed Insights into Neglected Tropical
Diseases and Infection Mechanisms; Bernhard
Spengler¹; Stefanie Gerbig¹; Patrik Kadesch¹;
Parviz Ghezellou¹; Simone Häberlein²; Christoph
G. Grevelding²; Katja Becker³; Anja Taubert²;
Carlos Hermosilla²; ¹Analytical Chemistry, Giessen,
Germany; ²Institute of Parasitology, Giessen,
Germany; ³Biochemistry and Molecular Biology,
Giessen, Germany

TOD am 08:50

MALDI Mass Spectrometry Imaging of
Alzheimer's Disease Human Brain Tissue
Reveals Distributions of Functionally
Important Metabolites; Abby S. Gelb^{1, 2}; Nivedita
Bhattacharya²; Weiming Xia^{1, 2}; Catherine E.
Costello²; ¹Edith Nourse Rogers Memorial Veterans
Hospital, Geriatric Research Education & Clinical
Center, Bedford, MA; ²Boston University School of
Medicine, Boston, MA

TOD am 09:10

Lessons Learned from Mice and Cheese:
Investigating Diffusion Processes by MALDI
MS Imaging; Julia Kokesch-Himmelreich¹; Alan M.
Race¹; Axel Treu¹; Claus Schlicht²; Ulrich Busch²;
Kerstin Walter³; Christoph Hölscher³; Andreas
Römpp¹; ¹University of Bayreuth, Bayreuth,
Germany; ²Bavarian Health and Food Safety
Authority, Oberschleißheim, Germany; ³Research
Center Borstel, Borstel, Germany

Simultaneous Lipids/Metabolites Imaging (1 µm Resolution) of Traumatic Brain Injury Tissue Using Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS); Hua <u>Tian</u>¹; Louis J. Sparvero^{2, 3}; Andrew A. Amoscato^{2, 4}; Valerian E. Kagan^{2, 4, 5}; Hülya Bayır^{2, 4, 6}; John C. Vickerman⁷; Peter J. Cumpson⁸; Nicholas Winograd¹; ¹Department of Chemistry, Pennsylvania State University, University Park, PA; 2Department of Environmental and Occupational Health. University of Pittsburgh, Pittsburgh, PA; 3Center for Free Radical and Antioxidant Health, Pittsburgh, PA; 4Center for Free Radical and Antioxidant Health, University of Pittsburgh, Pittsburgh, PA; ⁵Departments of Chemistry, Pharmacology and Chemical Biology, Radiation Oncology, University of Pittsburgh, Pittsburgh, PA; 6Department of Critical

Care Medicine, and Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA; ⁷School of Chemical Engineering and Analytical Science, The University of Manchester, Manchester, United Kingdom; ⁸Mark Wainwright Analytical Centre, he University of New South Wales, Sydney, Australia

TOD am 09:50 Dual Mode Mass Spectrometry Imaging to Probe the Inflammatory Properties of Nanoparticle Stabilized Capsules; Kristen Sikora¹; Joseph M Hardie¹; Vincent M Rotello¹; Richard W. Vachet¹; ¹University of Massachusetts, Amherst, MA

TOD am 10:10

Correlated Chemical Mapping of Multiple
Compounds and Metabolites in Rat Tissues;
Gary J Van Berkel¹; Thomas R. Covey²; Chang
Liu²; Bryce Young²; Robert Johnson³; Christopher
DeBenedetto³; Danielle Diaz³; Adam Bentley³;
James Glick³; Jimmy Flarakos³; ¹Gary Van Berkel
LLC, Oak Ridge, Tennessee; ²SCIEX, Concord, ON;
³Novartis Institutes for BioMedical Research, East
Hanover, NJ

8:30 - 10:30 pm Tuesday ENVIRONMENTAL: EMERGING CONTAMINANTS (IN HONOR OF RON HITES) Session Chair: Susana Y. Kimura (University of Calgary)

TOE am 08:30

Nontargeted Identification of Antioxidants in the Environment; Ronald A. Hites¹; Yan Wu¹; Marta Venier¹; *Indiana University, Bloomington, IN

TOE am 08:50

Stable Isotopic Labeling and Nontargeted Identification of ng/L Amino-Contaminants in Water; Zhongshan Liu¹; Guang Huang¹; Ping Jiang¹; Lindsay Jmaiff Blackstock¹; Xing-Fang Li¹; ¹University of Alberta, Edmonton, AB

TOE am 09:10 Organic Pollutants in the Snow of Franz Joseph Land. Expedition 2017; Dmitrii Mazur¹.²; Dmitrii Kosyakov²; Aleksandr Kozhevnikov²; Thomas Latkin²; Evgeniy Varakin²; Oleg Khoroshev²; Albert T Lebedev¹; ¹Moscow State University, Moscow, Russia; ²Lomonosov Northern (Arctic) Federal University, Centre of collective usage "Arctica", Arkhangelsk. Russia

Design and Initial Findings of EPA's Non-

TOE am 09:30

Targeted Analysis Collaborative Trial (ENTACT); Jon R Sobus¹; Elin Ulrich²; Jarod Grossman³, 4; Alex Chao³; Randolph Singh^{5, 6}; Christopher Grulke⁷; Ann Richard⁷; Andrew McEachran⁵; Seth Newton²; Mark Strynar²; Kamel Mansouri^{5, 8}; Antony Williams7; 1US EPA, Research Triangle Park, NC; ²US EPA, National Exposure Research Laboratory, Research Triangle Park, NC; 3Student Contractor, US EPA, Research Triangle Park, NC; 4Agilent Technologies, Inc., Santa Clara, CA; 5ORISE Participant, US EPA, Research Triangle Park, NC; ⁶University of Luxembourg · Luxembourg Centre for Systems Biomedicine (LCSB), Luxembourg City, Luxembourg; ⁷US EPA, National Center for Computational Toxicology, Research Triangle Park, NC; 8Integrated Laboratory Systems, Inc., Contractor to National Toxicology Program, National Institute of

TOE am 09:50

Multidimensional Fractionation and Molecular
Characterization of Lingering Oil Compounds in
Coastal Sediments: A Nine Year Evolution; Amy
McKenna¹; Huan Chen¹; Cameron C. Davis¹; Donald
F Smith¹; Sydney Niles¹.²; Chad R. Weisbrod¹;
Gregory T. Blakney¹; Aixin Hou³; Qianxin Lin³;
Ryan P. Rodgers¹.²; ¹National High Magnetic Field

TOD am 09:30

TUESDAY MORNING ORAL SESSIONS



	Laboratory, Florida State University, Tallahassee, FL;		Palmblad ² ; ¹ National Institute of Standards and
	² Florida State University, Tallahassee, FL; ³ Louisiana State University, Baton Rouge, LA		Technology, Charleston, SC; ² Leiden University Medical Center, Center for Proteomics and
TOE am 10:10	Advancing a Full Picture on Water-Soluble		Metabolomics, Leiden, Netherlands
10L ani 10.10	Synthetic Polymers in Wastewater- Different	TOG am 09:10	Multi-Attribute Method Evaluation of the High
	Ionization Strategies for Homologue Series		Resolution X500B Quadrupole Time-of-Flight
	Detection; Teresa Mairinger1; Martin Loos2; Juliane		System; Monica Sadek1; Frank Macchi1; Chengfeng
	Hollender ^{1, 3} ; ¹ EAWAG: Swiss Federal Institute		Ren¹; Benjamin Moore¹; ¹Genentech, Inc., South
	of Aquatic Science and Technology, Dübendorf,	TOG am 09:30	San Francisco, CA
	Switzerland; ² looscomputing, Zurich, Switzerland; ³ Institute of Biogeochemistry and Pollutant	10G alli 09.30	Meeting the Challenges of Implementing Accurate-Mass Mass Spectrometry for
	Dynamics, ETH Zurich, Zurich, Switzerland		Biotherapeutic Development in Regulated/
	•		Non-Regulated Environments; Henry Shion ¹ ;
	8:30 - 10:30 pm Tuesday		Mellisa Ly ² ; Nilini Ranbaduge ¹ ; Ximo Zhang ¹ ; Yun
Caralan	PROTEIN-LIGAND INTERACTIONS		Adelyunas ¹ ; Jonathan Pugh ³ ; Robert Lewis ³ ; Jill
Session	Chair: Justin Benesch (University of Oxford) B312-314		Lord ³ ; Mark Halifax ³ ; Nick Tomczyk ³ ; Ying-Qing Yu ¹ ; Jason Rouse ² ; Weibin Chen ¹ ; ¹ Waters Corporation,
TOF am 08:30	Semi-Tryptic Peptide Enrichment Strategy for		Milford, MA; ² Pfizer, Andover, MA; ³ Waters
	Protein-Ligand Interaction Analysis on the		Corporation, Wilmslow, United Kingdom
	Proteomic Scale Using Limited Proteolysis;	TOG am 09:50	Understanding Biotherapeutic Product Quality
	Michael C. Fitzgerald ¹ ; Renza Ma ¹ ; Do-Yeon Kwon ¹ ;		Attributes through a Multi-Attribute Method
	Tesia Stevenson¹; Hyeri Park¹; Jiyong Hong¹; ¹Duke		(MAM) Lab-of-the-Future; Andrew William Dawdy ¹ ;
TOF am 08:50	University, Durham, NC Interactions between Integrin and Ligands:		Kristin Boggio ² ; Keith Lutke ¹ ; Anastasiya Manuilov ² ; Tiffany Medwid ¹ ; Halyna Narepekha ¹ ; Wengin
101 411 00.00	Conformational Changes upon Binding to RDG-		Ni²; Nataliya Parahuz¹; Himakshi Patel²; Thomas
	type receptors; Roxana E. lacob1; Yang Su2;		Powers ¹ ; David Ripley ² ; Amy Schmidt ² ; Justin
	Timothy A. Springer ³ ; John R. Engen ¹ ; ¹ Northeastern		Sperry ¹ ; Matthew Thompson ² ; Joshua Woods ¹ ;
	University, Boston, MA; ² Harvard Medical School,		Ying Zhang ² ; Richard Cornell ² ; Sonia Taktak ² ; Carly
TOF am 09:10	Boston, MA; ³ Harvard Medical School, Boston, MA A Single Experiment (LITPOMS) Reveals		Daniels ¹ ; Keith Johnson ² ; Olga Friese ¹ ; Jason Rouse ² ; ¹ Pfizer, Chesterfield, MO; ² Pfizer, Andover,
101 am 03.10	Composite Conformational Changes, Order of		MA
	Binding, and Affinities for Calcium Binding to	TOG am 10:10	Strategies and Practices for Implementing Multi-
	Calmodulin; Roger (Xiaoran) Liu1; Mengru Zhang1;		Attribute Method (MAM) in GMP Environment; Da
	Don L. Rempel¹; Michael L. Gross¹; ¹Washington		Ren; Amgen Inc., Thousand Oaks, CA
TOF am 09:30	University, St. Louis, MO Ion Mobility-Mass Spectrometry of		8:30 - 10:30 pm Tuesday
101 am 09.50	Peptidomimetic-Aβ Complexes: Towards	NUC	CLEIC ACIDS AND OLIGONUCLEOTIDES
	Generalized Amyloid Inhibitors; Yilin Han1; Neha	Session Ch	nair: Satoko Akashi (Yokohama City University)
	Jain ² ; Varun V. Gadkari ³ ; Elizabeth Gichana ³ ;		A411-412
	Fredrick Almqvist ⁴ ; Magdalena I. Ivanova ³ ; Matthew	TOH am 08:30	Nucleic Acids Biophysics by In-Solution HDX/
	T. Chapman ³ ; Brandon T. Ruotolo ³ ; ¹ Univeristy of Michigan, Ann Arbor, MI; ² Ahmedabad University,		Native MS; <u>Eric Largy</u> ¹; Laura Fricot¹; Anaïs Ferrer¹; Valérie Gabelica¹; ¹ <i>Université de Bordeaux, INSERM</i>
	Ahmedabad, India; ³ University of Michigan, Ann		U1212, CNRS UMR 5320, IECB, Pessac, France
	Arbor, MI; ⁴ Umeå University, Umeå, Sweden	TOH am 08:50	Duplex and Triplex siRNA-mAb Conjugate
TOF am 09:50	Combining Native Mass Spectrometry with Ion		Product Confirmation for Pharma: Positive or
	Mobility and Top-Down Approaches Provides		Negative Native nESI MS; lain D G Campuzano ¹ ;
	Unique Insights into the Dynamics of Protein- RNA Interactions; Rebecca J. D'Esposito ¹ ;		Carter Lantz ² ; Chawita Netirojjanakul ³ ; Sara C Humphreys ⁴ ; Mai B Thayer ⁴ ; Joseph A Loo ² ; ¹ Amgen
	Alice Sosic ¹ ; Daniele Fabris ¹ ; ¹ The RNA Institute.		Inc., Thousand Oaks, CA; ² UCLA, Los Angeles, CA;
	University at Albany, Albany, NY		³ Amgen, Inc., Thousand Oaks, CA; ⁴ Amgen, South
TOF am 10:10	Quantifying Soluble Protein Interactions with		San Francisco
	Glycolipids in Model Membranes; Ling Han ¹ ;	TOH am 09:10	Combining Different Solution Denaturation
	Michele Richards ¹ ; Elena N Kitova ¹ ; John Klassen ¹ ; ¹ University of Alberta, Edmonton, AB		Techniques to Expand the Limits of Top-Down Analysis of Large Ribonucleic Acids: Will
	Offiversity of Alberta, Editiontoff, AB		McIntyre ¹ ; Thomas Kenderdine ¹ ; Botros Toro ¹ ; Ryan
	8:30 - 10:30 pm Tuesday		Treen ¹ ; Alice Sosic ¹ ; Daniele Fabris ¹ ; ¹ SUNY Albany,
	MS IN THE QC LAB		NY
Session (Chair: Richard Rogers (Just Biotherapeutics)	TOH am 09:30	Using Nucleic Acid Stable Isotope Labeling Mass
	Auditorium, Bldg A		Spectrometry (NAIL-MS) to Unlock the Mysteries
TUC am US-30			Surrounding RNA Modifications: Kayla Borlandi:
TOG am 08:30	A Software Tool for Automated, Fast, Flexible		Surrounding RNA Modifications; Kayla Borland ¹ ; Felix Hagelskamp ¹ : Valentin Reichle ¹ : Matthias
TOG am 08:30			Felix Hagelskamp¹; Valentin Reichle¹; Matthias Heiss¹; Stefanie Kellner¹; 1Ludwig-Maximilians-
TOG am 08:30	A Software Tool for Automated, Fast, Flexible and Comprehensive Quality Control Analysis of Shotgun Proteomics Raw-Files; Christian D. Kelstrup¹; Martin Rykaer¹; Jeppe Madsen¹;		Felix Hagelskamp¹; Valentin Reichle¹; Matthias Heiss¹; Stefanie Kellner¹; ¹Ludwig-Maximilians- University, Munich, Germany
TOG am 08:30	A Software Tool for Automated, Fast, Flexible and Comprehensive Quality Control Analysis of Shotgun Proteomics Raw-Files; Christian D. Kelstrup¹; Martin Rykaer¹; Jeppe Madsen¹; Jesper V. Olsen¹; ¹CPR, University of Copenhagen,	TOH am 09:50	Felix Hagelskamp¹; Valentin Reichle¹; Matthias Heiss¹; Stefanie Kellner¹; ¹Ludwig-Maximilians- University, Munich, Germany The Landscape of Post-Transcriptional
	A Software Tool for Automated, Fast, Flexible and Comprehensive Quality Control Analysis of Shotgun Proteomics Raw-Files; Christian D. Kelstrup¹; Martin Rykaer¹; Jeppe Madsen¹; Jesper V. Olsen¹; ¹CPR, University of Copenhagen, Copenhagen N, Denmark	TOH am 09:50	Felix Hagelskamp¹; Valentin Reichle¹; Matthias Heiss¹; Stefanie Kellner¹; ¹Ludwig-Maximilians- University, Munich, Germany The Landscape of Post-Transcriptional Modifications in Human tRNA; Hendrik
TOG am 08:30	A Software Tool for Automated, Fast, Flexible and Comprehensive Quality Control Analysis of Shotgun Proteomics Raw-Files; Christian D. Kelstrup¹; Martin Rykaer¹; Jeppe Madsen¹; Jesper V. Olsen¹; ¹CPR, University of Copenhagen,	TOH am 09:50	Felix Hagelskamp¹; Valentin Reichle¹; Matthias Heiss¹; Stefanie Kellner¹; ¹Ludwig-Maximilians- University, Munich, Germany The Landscape of Post-Transcriptional

Instrument Performance and Direct Troubleshooting; Benjamin Neely¹; Magnus



TOH am 10:10

The Role of Bioanalytical Assays in Supporting the Development of a siRNA Nanoparticle Drug; Uma Kavita¹; Neil Mathias¹; Fulya Akpinar¹; Giridhar S. Tirucherai¹; Renuka C. Pillutla¹; Qin C. Ji¹; ¹Bristol-Myers Squibb Co., Princeton, NJ

10:30 am - 2:30 pm Tuesday

TUESDAY POSTER SESSION

Poster/Exhibit Hall ground level

Lunch concessions are open 11:00 am - 2:00 pm

Odd-number posters present: 10:30 am - 11:30 am <u>PLUS</u> 12:30 - 2:30 pm

Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Poster Pick-Me-Up Snacks served at 1:30 pm

Jaffe1; Steven A. Carr1; 1Broad Institute of MIT and



TUESDAY AFTERNOON ORAL SESSIONS

2:30 - 4:30 pm Tuesday Harvard, Cambridge; ²University of Washington, INFORMATICS: DATA-INDEPENDENT ACQUISITION Seattle, WA Session Chair: Bernd Wollscheid (Institute of Molecular Systems TOA pm 03:50 ISObaric Modification Extraction and Biology, ETH Zürich) Resolvement (ISOMER); Zuofei Yuan¹; Simone Sidoli¹; Katarzyna Kulej^{1,2}; Benjamin A. Garcia¹; Murphy Ballroom, Bldg B, Level 5 Mobi-DIK (Ion Mobility DIA Analysis Kit): ¹University of Pennsylvania, Philadelphia, PA; ²The TOA pm 02:30 Targeted Analysis Software for diaPASEF Data Children's Hospital of Philadelphia, Philadelphia, PA Improves Proteome Coverage; Annie Ha¹; Max TOA pm 04:10 An Open Searching Strategy for Identification Frank¹; Florian Meier²; Andreas-David Brunner²; and Quantification of Expressed Variants in Stephanie Kaspar-Schönefeld³; Scarlet Koch³; Serum and Plasma; Matthew Foster1; Emily Ko1; J. Markus Lubeck3; Oliver Raether3; Ben C Collins4; Will Thompson¹; Sunil Suchindran¹; Sarah Rains¹; Ruedi Aebersold⁴; Matthias Mann^{2, 5}; Hannes Röst¹; Rose Asrican¹; L. Gayani Tillekeratne¹; Matthew ¹Donnelly Centre for Cell and Molecular Research, Rubach¹; Thomas Burke¹; Elizabeth Petzold¹; Christopher Woods¹; M. Arthur Moseley¹; ¹Duke University of Toronto, Toronto, ON; 2Max Planck Institute of Biochemistry, Martinsried, Germany; University, Durham, NC ³Bruker Daltonik GmbH, Bremen, Germany; ⁴ETH Zurich, Zurich, Switzerland; 5NNF Center for Protein 2:30 - 4:30 pm Tuesday GC/MS, GCXGC/MS, GC-MS/MS, AND GC/HRMS Research University of Copenhagen, Copenhagen, Session Chair: David Touboul (CNRS-ICSN) Denmark TOA pm 02:50 "Library-Free" DIA Analysis: Using Proteome-B401-402 **Enantiomeric Profiling of Terpenes in Plant** Wide in-silico Generated Spectral Libraries by TOB pm 02:30 Prosit for DIA Data Analysis; Tobias Schmidt1; Material Using Gas Chromatography-Mass Daniel P Zolg¹; Siegfried Gessulat^{1, 2}; Oliver M. Spectrometry; Seamus Riordan-short1; Don Bernhardt³; Tejas Gandhi³; Patroklos Samaras¹; Nguyen¹; Thu-Thuy Dang¹; Rob O'Brien¹; Matthew Martin Frejno¹; Hans-Christian Ehrlich²; Lukas Noestheden1; 1Supra R&D, Kelowna, BC Reiter³; Bernhard Kuster¹; Mathias Wilhelm¹; ¹Chair TOB pm 02:50 **Evaluating the Volatile Constituents of Different** of Proteomics and Bioanalytics, Technical University Cannabis Varieties using Solventless Sample of Munich, Freising, Germany; 2SAP SE, Potsdam, Preparation and Orbitrap Based MS Detection; Germany; 3Biognosys, Schlieren, Switzerland Gyorgy Vas; VasAnalytical, Flemington, NJ Increasing the Dynamic Range of Data TOB pm 03:10 Covalent Adduct Chemical Ionization (CACI-) TOA pm 03:10 Independent Acquisition (DIA) by Fusing BoxCar MS/MS for Assignment of Double Bond Position MS1 With Segmented MS2; Florian Meier1; Roland without Standards on a Shimadzu Triple Bruderer²; Oliver M. Bernhardt²; Tabiwang N. Quadrupole MS; Tom Brenna1; Hui Gyu Park1; Zhen Arrey³; Tejas Gandhi²; Yue Xuan⁴; Oliver Lange³; Wang¹; Dong Hao Wang¹; Riki Kitano²; ¹University of Alexander Makarov³; Alexander Harder³; Lukas Texas, Austin, TX; 3Shimadzu Scientific Instruments, Reiter²; Matthias Mann¹; ¹Max Planck Institute of Inc., Columbia, MD Biochemistry, Martinsried, Germany; 2Biognosys AG, TOB pm 03:30 **Extending the Range of Compounds Amenable** Schlieren, Switzerland; ³Thermo Fisher Scientific, for GC-MS Analysis with Cold EI - Recent Bremen. Germany: 4Thermo Fisher Scientific. Applications; Aviv Amirav1; Alexander B. Fialkov1; Ksenia Kladchenko¹; Tal Alon¹; ¹Tel-Aviv University, Bremen, Germany TOA pm 03:30 Avant-Garde: Your DIA Data Sommelier to Tel-Aviv, Israel Assess and Improve Quantitative Suitability TOB pm 03:50 Large Scale Breath Monitoring for Asthma Phenotyping; <u>Jean-François Focant</u>¹; Delphine in Large Datasets; Sebastian Vaca1; Karen E. Christianson¹; Nicholas Schulman²; Karsten Krug¹; Zanella¹; Pierre-Hugues Stefanuto¹; Florence Katherine C. DeRuff¹; Ryan Peckner¹; Malvina Schleich2; Renaud Louis2; 1Liège University, Liege, Papanastasiou1; Michael J. MacCoss2; Jacob D. Belgium; ²Liège University Hospital, Liège, Belgium



TOB pm 04:10

GNPS GC Enables Automated Processing, Annotation and Visualization of Large Scale GC-MS Metabolomics Datasets; Alexander Aksenov¹; Ivan Laponogov²; Mingxun Wang³; Dennis Veselkov⁴; Zheng Zhang³; Louis Felix Nothias³; Alexey Melnik³; Pieter Dorrestein³; Kirill Veselkov²; ¹UCSD, La Jolla, CA; ²Imperial College London, London, United Kingdom; ³University of California San Diego, La Jolla, CA; ⁴Intelligify Limited, London, United Kingdom

2:30 - 4:30 pm Tuesday TOP DOWN PROTEIN ANALYSIS Session Chair: Ryan Kelly (Brigham Young University) B405-407

TOC pm 02:30

Large-Scale Top-Down Proteomics Across Two-Dozen Cell Types from Human Blood and Bone Marrow; Rafael D Melani¹; Robert V Gerbasi¹; Jacek W Sikora¹; Josiah E Hutton¹; Jeannie M Camarillo¹; Timothy Toby¹; Kristina Srzentić¹; Richard D Leduc¹; Ryan T Fellers¹; Joseph B Greer¹; Andy I Kokaji²; Lissa C Anderson³; Christopher L. Hendrickson³;

Paul M Thomas¹; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²STEMCELL Technologies Inc., Vancouver, BC; ³NHMFL-FSU, Tallahassee, FL

TOC pm 02:50

Direct Mass Spectrometry Analysis of Protein
Complexes and Intact Proteins Up to 70 kDa
from Tissue; Helen Cooper¹; Rian Griffiths¹;
Albert Konijnenberg²; Rosa Viner³; ¹University of
Birmingham, Birmingham, United Kingdom; ²Thermo
Fisher Scientific, Eindhoven, Netherlands; ³Thermo
Fisher Scientific, San Jose, CA

TOC pm 03:10 Advancing High-Throughput Top-Down Analysis of Proteoforms up to 60 kDa using a Modified Orbitrap Tribrid Mass Spectrometer; Michael W. Senko¹; Romain Huguet¹; Kristina Srzentić²; Vlad Zabrouskov¹; Jesse D. Canterbury¹; Christopher Mullen¹; John E. P. Syka¹; Luca Fornelli³; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Cambridge, MA; ³University of Oklahoma,

TOC pm 03:30

Capillary Zone Electrophoresis-Tandem
Mass Spectrometry with Activated Ion
Electron Transfer Dissociation and Ultraviolet
Photodissociation for Large-Scale Top-Down
Proteomics; Eli McCool¹; Jean Lodge²; Yansheng
Liu³; Joshua J Coon²; Liangliang Sun¹; ¹Michigan
State University, East Lansing; ²University of
Wisconsin, Madison, WI: ³Yale University School of

Norman, OK

TOC pm 03:50 Extending the Upper Mass Range Available to Top-Down Proteomics with 21 T-FTICR MS;

Lissa C. Anderson¹; Chad R. Weisbrod¹; David S.

Butcher¹; Christopher L. Hendrickson¹; ¹NHMFL-FSU, Tallahassee, FL

Medicine, West Haven, CT

TOC pm 04:10 The Use of Top-Down Sequencing in the Evaluation of Enzyme Specificity of Streptococcal Cysteine Protease SpeB on Human IgG2; Anja Resemann¹; Waltraud Evers¹; Robert Kane²; Fredrik Olsson³; Guillaume Tremintin⁴; Lars Vorwerg¹; Detlev Suckau¹; ¹Bruker Daltonics, Bremen, Germany; ²Bruker Daltonics Inc., Billerica, MA; ³Genovis AB, Lund, Sweden; ⁴Bruker Scientific, San Jose, CA

2:30 - 4:30 pm Tuesday DRUG TARGET IDENTIFICATION BY MS Session Chair: Angela I. Calderon (Auburn University) B302-305

TOD pm 02:30 Proteome Wide Unbiased Target Identification for Radiation Mitigating Drug Candidate Using Thermal Proteome Profiling; Kate Liu¹; Constance Yuen¹; William H. McBride¹; Robert Damoiseaux¹; Julian P. Whitelegge¹; Joseph A. Loo¹; ¹UCLA, Los Angeles, CA

TOD pm 02:50

Development of a Novel Drug Target
Identification Platform Based on Size (DTIPS);

Yanting Guo¹; Zhe Wang¹; Dahang Yu¹; Kellye A
Cupp-Sutton¹; Si Wu¹; ¹University of Oklahoma,
Norman. OK

TOD pm 03:10 The Good, the Bad and the Ugly - Thermal Stability Changes for Targets, Off-Targets and Non-Targets of Small Molecule Drugs; Alexey Chernobrovkin¹; Cindy Caceres Körner¹; Tomas Friman¹; Johan Lengqvist¹; Maria Thastrup²; Matilda Degn Vinther²; Daniel Martinez Molina¹; ¹Pelago Bioscience AB, Solna, Sweden; ²Rigshospitalet, Copenhagen, Denmark

TOD pm 03:30 Integrative Mass Spectrometry and RNA-Sequencing Identifies DLK1 as a Candidate Immunotherapeutic Target in Neuroblastoma; Amber K. Weiner^{1, 2}; Alexander B. Radaoui²; Simone Sidoli¹; Karina L. Conkrite²; Zalman Vaksman²; Komal S. Rathi²; Pichai Raman²; Jo Lynne Harenza-Rokita²; Dan Martinez²; Tricia Bhatti²; Matthew Tsang²; Bruce Pawel²; Benjamin A. Garcia¹; John M. Maris^{1, 2}; Sharon J. Diskin^{1, 2}; *1University of Pennsylvania, Philadelphia, PA, *2Children's Hospital of Philadelphia, Philadelphia, PA

TOD pm 03:50 Mechanism and Dynamics of SAMT Analog Inactivation of HIV-1 Gag Polyprotein; Lisa M. Miller Jenkins¹; Elliott L. Paine¹; Lalit Deshmukh².³; Herman Nikolayevskiy²; Gaelyn C. Lyons¹; John M. Louis²; Robert J. Gorelick⁴; David E. Ott⁴; G. Marius Clore²; Daniel H. Appella²; ¹National Cancer Institute, Bethesda, MD; ²National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD; ³University of California San Diego, La Jolla, CA; ⁴Frederick Nat¹l Lab for Cancer Research, Frederick,

TOD pm 04:10

Illuminating the Druggable Proteome:
Deconvolution of Drug Action by Multi-Omics,
Thermal Profiling and High-Content Screening;
Doug Chapnick¹; Christopher Ebmeier¹; Kerri Ball¹;
Stephen Coleman¹; Jeremy Jacobsen¹; Kristofor
Webb¹; Travis Nemkov²; Xuedong Liu¹; Michael
Stowell¹; Angelo D'Alessandro²; William Old¹;
¹University of Colorado Boulder, Boulder, CO; ²University of Colorado, Denver - Anschutz, Aurora, CO

2:30 - 4:30 pm Tuesday FOOD SAFETY & CHEMISTRY: INNOVATIONS Session Chair: Christine Fisher (US Food & Drug Administration) B308-309

TOE pm 02:30 Sensitive Multi-Mycotoxin Biomonitoring in Breast Milk by LC-MS/MS; Dominik Braun¹; Maximilian Eiser¹; Doris Marko¹; Benedikt Warth¹; ¹University of Vienna, Faculty of Chemistry, Department of Food Chemistry and Toxicology, Vienna, Austria

TOE pm 02:50

Formation of Toxic Iodinated Disinfection Byproducts during the Cooking of Pasta with Iodized Table Salt; Huiyu Dong^{1, 2}; Ilona Nordhorn¹; Karsten Lamann¹; Danielle C. Westerman¹; Hannah K Liberatore¹; Susan D. Richardson¹; ¹University of

TUESDAY AFTERNOON ORAL SESSIONS

TOE pm 03:10	South Carolina, Columbia, SC; ² Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China Rapid Retrospective Assessment of Exposure of Cattle to Pesticides, Growth Promotors, Antibiotics by Use of In-House Developed Software Tools; Marco Blokland¹; Arjen Lommen¹; Robin Wegh¹; Frederike van Tricht¹; Hans Mol¹; Michel W.F. Nielen¹; ¹ RIKILT, Wageningen,	TOF pm 04:10	London, United Kingdom; ² Cancer Research UK Beatson Institute, Department of Invasion and Metastasis, University of Glasgow, United Kingdom; ³ AstraZeneca, iMED, United Kingdom; ⁴ Institute of Cancer Research, Division of Cancer Biology, United Kingdom; ⁵ Imperial College London, Department of Surgery and Cancer, United Kingdom Interim Proteomic Analysis of Ovarian Cancer by the US Cancer Moonshot's Applied
TOE pm 03:30	Netherlands Utilization of the MasSpec Pen for Rapid and Direct Investigation of Meat Fraud; Abigail Gatmaitan¹; Jialing Zhang¹; John Q. Lin¹; Livia S Eberlin¹; ¹University of Texas, Department of		Proteogenomic Organizational Learning and Outcomes (APOLLO) Program; Nicholas Bateman ^{1, 2} ; Kathleen Darcy ^{1, 2} ; Emmanuel Petricoin ³ ; Brian Hood ¹ ; Ming Zhao ⁴ ; Kelly Conrads ¹ ; Christopher Tarney ¹ ; Christine Rojas ¹ ; Guisong
TOE pm 03:50	Chemistry, Austin, TX Ambient Ionization Coupled with a Miniature Mass Spectrometer for Rapid Analysis of Adulterated Additives in Food; Xianshuang Meng¹; Qiang Ma¹; ¹Chinese Academy of Inspection and Quarantine, Beijing, China		Wang¹; Craig Shriver²; Yovanni Casablanca¹.²; George Larry Maxwell¹.².⁴; Thomas P. Conrads¹. ².⁴; ¹Gynecologic Cancer Center of Excellence, Annandale, VA; ²John P. Murtha Cancer Center, Bethesda, MD; ³Center for Applied Proteogenomics, George Mason University, Manassas, VA; ⁴Inova
TOE pm 04:10	Innovations in Food Safety Assessment of Genetically Modified Crops – the Deregulation of a Sustainable Source of Omega-3 Oils; Michelle Colgrave; CSIRO, St Lucia, Australia	INSTRUMENTA	Schar Cancer Institute, Annandale, VA 2:30 - 4:30 pm Tuesday ATION: INNOVATIVE SEPARATIONS APPROACHES COUPLED TO MS
	2:30 - 4:30 pm Tuesday CANCER RESEARCH	Session	n Chair: Xing-Fang Li (University of Alberta)
Sess	ion Chair: Erik Cressman (MD Anderson)	TOG pm 02:30	Auditorium, Bldg A The N-glycome Development Plan during
TOF pm 02:30	Proteomic Profiling of Cancer Cell Exosomes; Kelly Servage ¹ ; Karoliina Stefanius ¹ ; Kim Orth ¹ ; ¹ UT Southwestern Medical Center, Dallas, TX		Vertebrate Embryogenesis; Yanyan Qu ¹ ; Zhenbin Zhang ¹ ; Michael Westphall ² ; Paul Huber ¹ ; Josh Coon ² ; Norman Dovichi ¹ ; ¹ University of Notre Dame, Notre Dame, IN; ² University of Wisconsin, Madison,
TOF pm 02:50	MALDI Detection of Exosomes for Cancer Studies; Hubert H. Girault¹; Yingdi Zhu¹; ¹Ecole Polytechnique Fédérale de Lausanne (EPFL), Sion, Switzerland	TOG pm 02:50	W/ Novel Capillary Columns for Bottom-Up and Top- Down Strategies Based Proteome Analysis; Yu Liang¹; Yutong Jing²; Lihua Zhang¹; Yukui Zhang¹;
TOF pm 03:10	Live Single Cell Mass Spectrometry Reveals Cancer-Specific Metabolic Profiles of Circulating Tumor Cells; <u>Yasmine Abouleila</u> ¹ ; Kaoru Onidani ² ;		Ying Ge ² ; ¹ Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China; ² University of Wisconsin, Madison, WI
	Ahmed Ali¹; Eiso Hiyama³; Yoshihiro Shimizu¹; Kazafumi Honda²; ¹RIKEN, Osaka, Japan; ²National Cancer Institute, Tokyo, Japan; ³Hiroshima University, Hiroshima, Japan	TOG pm 03:10	Improved Sensitivity for Single Cell Proteomics Using micro-Chip Pillar Arrays; Karl Mechtler ^{1, 2} ; Claudia Ctortecka ^{1, 2} ; Jeff Op Beck ³ ; Paul Jacobs ³ ; Gert Van Raemdonck ³ ; Gabriela Krssakova ^{1,}
TOF pm 03:30	Tumor and CD8 T Cells Metabolism and Consumption in the Tumor Microenvironment; Lauranne Poncelet ^{1, 2} ; Rima Ait-Belkacem ¹ ; Pierre Levy ³ ; Maarten Ligtenberg ³ ; Daniel Peeper ³ ; Jonathan Stauber ⁴ ; **Ilmabiotech, Loos, France;		² ; Johannes Stadlmann ^{1,2} ; ¹ Research Institute of Molecular Pathology (IMP), Vienna, Austria; ² IMBA Institute of Molecular Biotechnology of the Austrian Academy of Sciences,, Vienna, Austria; ³ PharmaFluidics, Ghent, Belgium
	² Université de Lille, Lille, France; ³ Netherlands Cancer Insitute, Molecular oncology and Immunology department, Amsterdam, Netherlands; ⁴ ImaBiotech Corp, Boston, MA	TOG pm 03:30	Comprehensive Target and Non-Target Analysis of Unregulated Disinfection Byproducts with High Resolution Mass Spectrometry in Drinking Water;Susana Y Kimura Hara¹; Amy
TOF pm 03:50	Multisite Multimodal Mass Spectrometry Imaging of Organoids, Cell Extracts, and GEMMs to Explore Metabolic Changes in Colorectal Cancer Mutants; Chelsea J Nikula¹; Rory T. Steven¹; Alex Dexter¹; Efstathios A. Elia¹; Teresa		A. Cuthbertson ² ; Raphael Acabaya ^{1,3} ; Cassiana Montagner Raimundo ³ ; Susan D. Richardson ² ; ¹ University of Calgary, Calgary, AB; ² University of South Carolina, Columbia, SC; ³ Campinas University, Campinas, Brazil
	I. Murta¹; Bin Yan¹; Andrew D. Campbell²; Arafath K. Najumudeen²; Gregory Hamm³; David Gay²; Lucas Zeiger²; Aurelien Tripp⁴; Vincen Wu⁵; James S. McKenzie⁵; Paolo Inglese⁵; Jean-Luc Vorng¹; Seyma Turkseven⁵; Simon Cameron⁵; Stefania Maneta-Stavrakaki⁵; Spencer A. Thomas¹; Adam J. Taylor¹; Ala Al-Afeef¹; Tingting Fu¹; Kenneth N. Robinson¹; Weiwei Zhou¹; Xavier Loizeau¹; Ian S. Gilmore¹; Richard J.A. Goodwin³; George Poulogiannis⁴; Zoltan Takats⁵; Owen J. Sansom²; Josephine Bunch¹.⁵; ¹National Physical Laboratory,	TOG pm 03:50	Coupling Advanced Chromatographic Methods for Analysis of Petroleum Products and Asphaltenes with On-line Detection by 21 T FT-ICR MS; Jonathan Putman ^{1,2} ; Donald F Smith ¹ ; Chad R. Weisbrod ¹ ; Steven M Rowland ¹ ; Martha L. Chacón-Patiño ¹ ; Yuri E. Corilo ¹ ; Greg T. Blakney ¹ ; Christopher L. Hendrickson ^{1,2} ; Ryan P. Rodgers ^{1,2} ; Alan G. Marshall ^{1,2} ; ¹ National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ² Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL

TUESDAY AFTERNOON ORAL SESSIONS AND 5:45 - 7:00 PM TUESDAY WORKSHOPS



TOG pm 04:10

High-Throughput Analysis of Phospholipid Isomers by Online Photochemical Derivatization and RPLC-MS; Wenpeng Zhang^{1, 2}; Bing Shang^{1, 3}; Qinhua Chen³; Zheng Ouyang⁴; Yu Xia^{1, 2}; ¹Department of Chemistry, Tsinghua University, Beijing, China; ²Department of Chemistry, Purdue University, West Lafayette, IN 47907; ³Affiliated Dongfeng Hospital, Hubei University of Medicine, Shiyan, China; ⁴State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China

2:30 - 4:30 pm Tuesday
ENERGY, PETROLEUM, AND BIOFUELS: INSTRUMENTATION
AND APPLICATIONS

Session Chair: Amy McKenna (National High Magnetic Field Laboratory) A411-412

TOH pm 02:30

Pseudo-Quantitative Approach for Molecular Nitrogen Compounds Analysis in Gas Oils and Vacuum Gas Oils Using FT-ICR/MS, GCxGC-NCD and GCxGC/HRMS; Julie Guillemant¹; Florian Albrieux¹; Luis Pereira de Oliveira¹; Marion Lacoue-Nègre¹; Ludovic Duponchel²; Jean-François Joly¹; ¹Institut Francais du Petrole et Energies Nouvelles, Solaize, France; ²LASIR, Lille, France

TOH pm 02:50

Extending the Application Range of a GC×GC High-Resolution TOF-MS platform for Fuel Analysis by Hyphenation to Thermal Analysis Techniques; Uwe Kaefer^{1, 2}; Christopher Paul Rüger²; Thomas Gröger¹; Mohammad Saraji-Bozorgzad³; Thomas Wilharm⁴; Ralf Zimmermann^{1, 2}; *Joint Mass Spectrometry Centre, Comprehensive Molecular Analytics, Helmholtz Zentrum München, Neuherberg, Germany; *Joint Mass Spectrometry Centre, Chair of Analytical Chemistry, University of Rostock, Rostock, Germany; *ASG Analytik-Service Gesellschaft mbH, Neusäss, Germany

TOH pm 03:10

Case Studies in Oil Spill Forensics: Finding Petroleum Biomarkers with GCxGC-TOFMS; Christina Kelly¹; Joseph E Binkley¹; Lorne M Fell¹; Robert K Nelson²; Christopher M Reddy²; ¹LECO Corporation, Saint Joseph, MI; ²Woods Hole Oceanographic Institution, Woods Hole, MA

TOH pm 03:30

Structural Analysis of Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by Ion Mobility Coupled with Mass Spectrometry; Johann Le Maître^{1, 2}; Marie Hubert-Roux¹; Benoit Paupy²; Sabrina Marceau²; Christopher Rüger¹; Carlos Afonso¹; Pierre Giusti²; ¹Normandy University, COBRA laboratory, Mont Saint Aignan, France; ²Total Research & Technology Gonfreville, Harfleur, France

TOH pm 03:50

Obtaining Tandem Mass Spectra of Individual Crude Oil Compounds within Narrow m/z Windows Using Cyclic Ion Mobility Mass Spectrometry; Eunji Cho¹; Eleanor Riches²; Martin Palmer²; Kevin Giles²; Jakub Ujma²; Yunju Cho³; Sunghwan Kim¹.³; ¹Kyungpook National University, Daegu, South Korea; ²Waters Corporation, Wilmslow, United Kingdom; ³Green-Nano Materials Research Center, Daegu, South Korea

TOH pm 04:10

Recent Developments in Petroleum Characterization by Advanced Chromatography and Mass Spectrometry; <u>Kuangnan Qian</u>; <u>ExxonMobil Research Engineering, Annandale, NJ</u>

4:45-5:30 pm Tuesday
BIEMANN MEDAL LECTURE
Richard A. Yost (University of Florida), presiding
Murphy Ballroom, Bldg B, Level 5

Presentation of Research Award at Primarily Undergraduate Institution (PUI)

 Award sponsored by Agilent Technologies presented by Bryan Miller to Callie Cole (Fort Lewis College)

Presentation of the Research Awards

- Award sponsored by Bruker presented by Rohan A. Thakur to James F. Davies (University of California, Riverside).
- Award sponsored by Thermo Scientific presented by Iain Mylchreest to Nicolas L. Young (Baylor College of Medicine).
- Award sponsored by Waters Corporation presented by Lance Nicolaysen to Eleanor Browne (University of Colorado, Boulder)



Biemann Medal

Sarah Trimpin Wayne State University

5:45 - 7:00 PM TUESDAY WORKSHOPS

There will be light refreshments in Building A foyers. All workshops are in Building A.

01 Top Down Proteomics: Advancing Widespread Adoption and Expanding Applications
(Top-Down Proteomics Interest Group)
Presiding: Nicolas Young, Frederik Lermyte

A402-403

Top-down protein mass spectrometry allows comprehensive characterization of proteoforms from complex mixtures and avoids many of the pitfalls associated with traditional bottom-up workflows. While the top-down approach is conceptually simple, a number of significant technical challenges must be overcome in order to successfully perform a top-down experiment. This combination of utility and difficulty has led to the creation and rapid expansion of the multinational Consortium for Top-Down Proteomics in 2012. In this workshop, we will bring together experienced and novice top-down mass spectrometry users in order to promote the development and democratization of these methods. The primary emphasis will be open discussion and debate. The selected topics and formal introductions will serve primarily to educate and provide greater accessibility to novice participants and induce discourse

from a wide range of voices. We will discuss the following topics: Introduction to top-down proteomics and practical implementation in your laboratory; community initiatives and standardization; metrics for identification and accurate quantitation in biomedical research; and native mass spectrometry and native top-down proteomics. Each topic will be introduced by a 5-minute lightning talk, followed by approximately 10 minutes of audience discussion and debate. Thus, the majority of the workshop will be audience participation and a lively discussion amongst attendees. Contact workshop chairs if you are interested in presenting an introduction to spark the discussion of a topic.

02 Networking for Scientists: Celebrating Women Mass Spectrometrists (Year 2) Presiding: Erin Baker, Anumita Saha A404-405

In our second year of the Celebrating Women Mass Spectrometrists Workshop, we will utilize feedback from last year to refine our workshop. Due to the desire for more networking, this year we will start with a

5:45 - 7:00 PM TUESDAY WORKSHOPS

There will be light refreshments in Building A foyers. All workshops are in Building A.

panel of ~6 women mass spectrometrists who have excelled in diverse careers in academia, industry and government. The session will kick off with panelists introducing themselves and giving a brief summary of their career paths. Then we will allow questions from the audience until there is ~30 min left in the workshop. At this time, the panelists will disperse in the room for one-on-one interaction with the audience. We feel this will give anyone who would like to attend, the chance to meet these women and ask them specific questions about their career paths in a social and non-threatening environment.

03 Say No to Drugs: Forensic Applications Outside of Traditional Illicit Drug Analysis

(Forensics & Homeland Security Interest Group)
Presiding: Christopher Mulligan, Brittany Casey
A406-407

As almost any chemical species could be potential evidence and/or a threat, given that it was involved in or alludes to criminal activities, the fields of forensic science and homeland security are some of the most demanding and comprehensive. To further complicate the issue, the large breadth of chemical targets can be found in various states of matter, as residues on many different substrates, or in the presence of complex chemical/biological matrices. Thus, forensic and security science has matured concurrently with advancements in analytical chemistry, and almost all processing of chemical substances incorporates some aspect of instrumental analysis.

Of the commonly-utilized instrumentation in these areas, mass spectrometry has a prominent role and is considered to be a "gold standard" technique (in the form of GC/MS) for illicit substance analysis. While much emphasis and effort (as evidenced by the recent Census of Publicly Funded Forensic Crime Laboratories by the Bureau of Justice Statistics) goes towards illicit drugs, the sensitivity and selectivity of MS-based methods are employed in many other areas of interest. This year, the workshop will move away from abused drugs to highlight other application areas of critical importance to forensic science and homeland security, such as chemical threats/CWAs, explosives/ firearms, toxicology, etc. Through discussions with a panel of scientists from the federal, private and academic sectors, the audience will gain insight into how researchers employ MS strategies in these important areas

04 Proteoform Identification and Quantification Using Toppic Suite Presiding: Xiaowen Liu, Si Wu, Liangliang Sun A408

Top down mass spectrometry (MS) has gained increasing attention in the past decade because of its capability to sequence whole proteoforms with post-translational modifications (PTMs) and other alterations. Although many computational methods have been developed for topdown MS data analysis, it is still challenging for MS labs to efficiently identify and quantify proteoforms because of the complexity of the data and methods. TopPIC suite is an open source software package that is routinely used for proteoform identification and characterization by top-down MS. In this workshop, we will present the computational methods of the tools in TopPIC suite for spectral deconvolution and the identification of proteoforms with unknown alterations and those with multiple variable PTMS, and demonstrate new functions such as proteoform quantification and data visualization. We will give tutorials on applying the tools to various research problems ranging from phosphorylated proteoform identification to native proteomics. We will discuss with users and collect their feedback and suggestions for further improvement of the tools.

05 Protein Biomarkers Method Development & Validation by LCMS, HRMS and Hybrid LBA/LCMS: Recent Advancements (Regulated Bioanalysis Interest Group)
Presiding: Jian Wang, Dian Su, Fabio Garofolo
A410

The 2019 Regulated Bioanalysis Interest Group (RBIG) Workshop is focused on recent advancements in protein biomarkers method development strategies and regulated Biomarker Assays Validation (BAV) by LCMS, HRMS and hybrid LBA/LCMS. This workshop will develop further mass spectrometry community discussions and consensus on the recently published recommendations on this topic including:

- Neubert, Song, Lee et al. 2017 White Paper in Bioanalysis https://www.future-science.com/doi/pdf/10.4155/bio-2017-4973
- Neubert, Olah, Lee et al. 2018 White Paper in Bioanalysis https://www.future-science.com/doi/pdf/10.4155/bio-2018-0285
- "[...]Accessibility and innovative integration of advanced technologies have accelerated the development of hybrid LBA/ LCMS, which has become an important bioanalytical platform to verify novel targets in discovery and confirm promising targets and biomarkers in early clinical development [...] Protein immunoaffinity techniques linked to MS (hybrid LBA/LCMS) have solidified their impact in translational research and in clinical analysis[...] This technique has been on an incredible journey in recent years that enabled growing adaptation through its use by an increasing number of practitioners and experts due to improved assay sensitivity and throughput, new reagents for capture approaches and automation of key steps, to name a few factors [...] Bioanalysts have advanced the ability from measuring soluble proteins to target engagement, moved from plasma to tissues including small biopsies, from soluble proteins to structural and membrane bound proteins and from concentration analysis to measuring protein synthesis rates." - excerpts from Bioanalysis (2017) 9(23) 1902-1903

Invited experts in this field will informally provide a wide range of perspectives on biomarkers method development and BAV by mass spectrometric techniques to stimulate an interactive & all-inclusive discussion with the audience

06 Improving Scientific Writing Skills Presiding: Chris Petucci A307

"The difference between the almost right word and the right word is really a large matter. It's the difference between the lightning bug and the lightning (Mark Twain)." A scientist's ability to clearly communicate ideas in written form has a major impact on his or her scientific reputation, obtaining grants, and publishing manuscripts. This workshop will be a hands-on session that includes essential grammar for scientists, writing grammatically correct sentences, and principles of logical paragraph development. At the conclusion of this workshop, you will have an increased knowledge of vital writing skills to prepare high quality manuscripts and other documents.

07 Metal Ions and Non-Threshold Ion Activation in Biomolecules (Metal Ion Coordination Chemistry Interest Group) Presiding: Franklin E. Leach III A309

Biomolecular ions can interact with metal species in a variety of ways ranging from cofactors in metalloproteins to exchange with acidic protons. These interactions lead to structural changes that can be deduced by mass spectrometry and can affect the utility of specific MS/MS approaches to provide sufficient structural information. The workshop will focus on the application of non-threshold ion activation approaches (ExD, UVPD, CTD, etc.) to determine structure in biomolecules that interact with metal ions. Short presentations (~8-10 mins) from the community that demonstrate a fundamental understanding or unique application of these MS/MS approaches in

5:45 - 7:00 PM TUESDAY WORKSHOPS



There will be light refreshments in Building A foyers. All workshops are in Building A.

metal ion systems will be given followed by time for discussion along with a series of lightning talks for any late breaking presentations of interest.

08 Protein Imaging - Are We There? Are All Issues Solved? (Imaging MS Interest Group) Presiding: Martina Marchetti-Deschmann, Peggi Angel A311

MS Imaging allows to obtain detailed images of the spatial distribution of proteins in tissue and has tremendously progressed over the years. In this workshop experts will shortly introduce the participants to state-of-the-art protein imaging, covering aspects of specificity, dynamic range, protein identification and data interpretation. The speakers will foster discussions about potentials and limitations of protein imaging. This workshop is addressing everyone in the field, from beginners to experts and also those who are just interested in the method.

We moreover strongly encourage students and early stage researchers to give a short presentations (5 min/2-3 slides) on their perspectives of protein imaging, including insights or any challenges and limitations they face in this area. If you are interested in participating or have any questions, please contact us via email:

martina.marchetti-deschmann@tuwien.ac.at; angelp@musc.edu

09 Metabolomics: Points of Agreement and Disagreement (Metabolomics Interest Group) Presiding: Gary Patti, Jon Sobus A312

The field of metabolomics emerged nearly twenty years ago, and targeted methods to measure metabolites were in place decades before. Given the tens of thousands of studies that are now available on metabolite profiling, there has been increasing clarity on best practices to quantitate small molecules with mass spectrometry. The purpose of this workshop is to review such analytical procedures, while also discussing practices in which disagreement persists. Moderators will first present themes from the literature representing perspectives they feel are widely shared by many researchers in the community. This will include sample preparation, metabolite extraction, and data processing steps. Focus will be dedicated to analytical strategies that may not have been agreed upon 10-15 years ago, but where progress has been made towards consensus. To contrast generally shared perspectives, moderators will also present views where varying opinions still exist among the community. Some examples may include: (i) what experimental data should constitute various confidence levels when identifying a metabolite? (ii) what are the minimal requirements for data sharing? (iii) how should databases be organized? Critical to the workshop will be the participation of the audience, whose input will help reflect the broader opinion of the community. At the end of the workshop, we hope participants will have a clearer sense of some basic ideas where there is general agreement and disagreement in the field of metabolomics.

10 Environmental MS: Detection of Emerging Contaminants (Environmental Applications Interest Group) Presiding: Chris Gill A313

New classes of compounds and contaminants emerge every decade, encouraging analytical scientists to come up with state-of-the-art methodologies for their analysis. New instrumentation in mass spectrometry is driving the field of unequivocal identification (accurate mass techniques) and lower detection limits (super sensitive instrumentation). This workshop will be focused broadly on discussing the best techniques and analytical approaches, including sample preparation, for the determination of important emerging contaminants that require generation of new methods, such as nanoparticles, microplastics and perfluorinated compounds (PFOS/PFOA). Presentations will be limited to briefly introduce the topic to prioritize active discussion among environmental scientists.

11 Visualization, Comparison and Accessibility of Large Data Sets (Analytical Lab Managers Interest Group) Presiding: David Quilici, Samuel Mackintosh A314

Analytical laboratories face significant challenges related to the analysis and storage of large data sets on behalf of principal investigators, many of whom have little experience with data analysis themselves. These investigators need to be able to understand what they are looking at, search their data easily, and extract useful information. In addition, analytical labs have the responsibility to maintain consistent standards for data analysis and to store and share large data sets appropriately and economically. The 2019 ASMS Analytical Lab Managers Workshop will focus on potential solutions to some of these challenges. Specifically, the workshop will cover data visualization techniques, standards for data normalization and comparison, and approaches to data storage and sharing. Three fifteen-minute presentations will be given, with each talk followed by a ten-minute discussion period.

12 Advances in Polymer Mass Spectrometry - Architecture (Polymeric Materials Interest Group) Presiding: Christina Mastromatteo, Jessica Hoskins A315

This year's meeting will consist of three distinct sections; a workshop, student poster elevator talks, and an open forum.

To start with, we will have two short tutorials on analysis of polymer architecture:

- KMD applications to polymer analysis
- · Hydrogel crosslinking studied by mass spectrometry

Secondly, we will host a series of short Polymer Section poster presentations (3-5 min each) by any students / presenters regarding their upcoming posters. This will provide each presenter an opportunity to promote their work externally to a professional scientific audience in their specialized field.

There will then be an open forum, in which attendees are invited to ask about any particular issues or questions that they would like to ask for help with. In addition, input will be sought for future Workshop topics.

13 (Emotional) Intelligence Gathering (Career Development Interest Group) Presiding: Lucinda Hittle, Charles Veltri A316

Have you ever wondered how to improve your ability to think on your feet, resolve conflicts with others, and manage your emotions more effectively? Emotional intelligence may be one of the most underestimated elements of a successful career. This workshop will take participants through a brief assessment of their emotional intelligence quotient (EQ) then break out into small group discussions facilitated by veteran scientists across diverse sectors including industry, government and non-profit agencies, and academia. The goals of this workshop will be to foster relationships across the society that span the boundaries of geography, age, level of experience, and academic training as well as enabling networking and small group discussions. No experience required, but imagination and an open mind are pre-requisites!

14 MS in Extractable and Leachable Analysis Presiding: Kate Comstock, Gyorgy Vas A303

Mass spectrometry plays an essential role in extractable and leachable (E&L) analysis. Complete E&L profiles require GC-MS, LC-MS, and ICP-MS analysis. The advancements in mass spectrometry instrumentation and new techniques provide new and much-needed tools for confident and comprehensive E&L profiling.

5:45 - 7:00 PM TUESDAY WORKSHOPS



Currently, the increasing demands for E&L analysis are driven by growth in medical devices, single-use systems (SUS), continuous processing in bioproduction, etc. The variation in materials, applications, and interactions with contact media of these products pose new challenges for E&L analysis. Furthermore, the existing E&L regulations are lacking in clarification of acceptance for these new products.

There are many techniques and new developments for E&L analysis in terms of sample preparations, chromatographic separations, and data acquisitions by various mass spectrometry instruments. In addition, the data processing and interpretation often are rate-limiting factors, and there is an urgent need for efficient, easy-to-use data processing software, E&L database and spectral libraries, and result reports generator.

This workshop will provide a venue for E&L analysis scientists to discuss all the above issues, exchange practices, also present problems and challenges concerning mass spectrometry instrumentation, methodologies, and data processing. Through this workshop, E&L scientists will have direct open discussion and information exchange, establish and expand networks. It will promote good science and advancement of mass spectrometer's usage in E&L analysis.

15 HDX, Covalent Labeling & Cross-Linking: Status of Community-Initiatives and New Developments and Applications (HDX Covalent Labeling & Cross Linking Interest Group) Presiding: Kasper Rand, Jim Bruce

Recent innovations in MS instrumentation, sample preparation strategies, cross-linking and chemical labeling reagents, and bioinformatics tools have significantly facilitated the developments and applications of HDX, covalent labeling and cross-linking approaches in protein structural and interaction analysis. In order to allow robust data evaluation and result comparison among experiments and across laboratories, data acquisition, analysis and interpretation need to be standardized. Since the last workshop, community-wide efforts have focused on these topics and in the first part of the workshop, one panelist from each community will present current status and highlights from this work for the benefit of beginners and experts alike. In addition, interactive discussions among audience members will be stimulated by the panelists, regarding to future perspectives for other topics that need to be harmonized within each fields. The second part of the workshop will focus on most recent technical developments or new areas of application within HDX/XL/CL-MS. Exciting and promising new developments will be highlighted by 5 min talks from invited members of the community, with a focus on current applicability and limitations. The invited speakers will form a panel for this second part of the workshop and there will be ample time for questions and answers including an opportunity for novices/students to contribute anonymous questions on fundamentals.

16 Lipidomics: Path to Clinical Utility (Lipids & Lipodomics Interest Group) Presiding: John Bowden, Kim Ekroos, A301

The field of lipidomics is rapidly evolving, driven by high expectation in its ability to afford new opportunities for studying lipids in health and disease and in many other fields of research. As such, in this lipidomics workshop, we aim to discuss the current status of lipidomics in the clinical arena. The workshop will be designed to stimulate discussion on several key questions, including: what are the current roadblocks preventing the universal adaptation of lipidomics in the clinical setting, which lipids/disease states already show clinical promise and which should we be focusing on next, and moving forward within the clinic, how much effort should be placed on those lipids that are historically difficult to measure but might have clinical promise? At present, the field is currently challenged by large disparities in methodologies and technologies and in how users apply them, resulting in an increasing number of publications of varying quality. Two potential reasons for

this are the lack of a common language and the lack of community-accepted best practice guidelines, both stalling the future development and true utilization of lipidomics in clinical research and diagnostics. This workshop will review the current challenges and discuss strategies moving forward, including the community-wide harmonization (and standardization) of lipidomics. A group of experts will share their experience and answer any questions, and views from the audience will be discussed.

17 Data Independent Acquisition: Expanding the Scope of DIA Strategies for Quantitative Mass Spectrometry (Data Independent Acquisition Interest Group) Presiding: Hannes Röst, Birgit Schilling A305

In quantitative proteomics, the fundamental aim is to accurately identify and quantify analytes across various conditions. Data independent acquisition (DIA) has recently emerged as a promising method to accurately quantify analytes in complex samples, allowing consistent detection and quantification of thousands of proteins across large sample cohorts. Utilizing MS2-based quantification (as in SRM/PRM) in high throughput workflows (as in DDA) has led to impressive results with highly consistent and accurate quantitative data matrices suitable for systems biology, systems medicine and personalized medicine applications. However, most current methods focus on accurate protein quantification using a label-free approach. However, the DIA approach can readily be applied to other MS-based questions and can be beneficial if high-quality fragment ion data is essential for correct analyte characterization. This workshop will discuss novel technological and software innovations in the field of DIA: How can novel advances in computer science (deep learning) advance the field of DIA and which novel analysis methods do they make available? What specific challenges await when expanding the scope of DIA beyond unmodified peptides (PTMs, SAV, lipids, small molecules)? How can ion mobility be integrated with DIA? How can very short gradients be exploited in DIA? This workshop will focus on existing and emerging approaches using novel technology and software in DIA and discuss some unique challenges, and opportunities, of translating the recently developed DIA approaches (such as targeted extraction) to these fields.

18 Trans-Proteomic Pipeline: Recent Advances and Future Directions Presiding: Luis Mendoza, David Shteynberg, Eric Deutsch A304

The workshop will begin with a brief overview of the Trans-Proteomic Pipeline (TPP) and its newest features and capabilities. We will then focus on four individual topics, fostering a discussion with workshop participants on the current strengths, weaknesses, and future directions for the TPP. The workshop will enable participants to describe challenges in proteomic data analysis and help drive directions in software approaches through needs of the community. The topic leads for discussion are: proteogenomics & PEFF applications, analyzing PTMs with PTMProphet, cross-linking analysis with Kojak 2.0, and deploying the TPP using Docker containers & cloud computing platforms. Each topic will be introduced with a brief summary of features and ideas. Then feedback and discussion by the workshop participants will be promoted.





From 7:00 am Wednesday CORPORATE BREAKFAST SEMINARS CONVENTION CENTER AND OMNI CNN CENTER HOTEL

See page 16 for detailed schedule. Reservation or RSVP required.

8:30 - 10:30 am Wednesday
METABOLOMICS: NEW TECHNOLOGIES AND APPLICATIONS
Session Chair: Nichole Reisdorph (University of Colorado
Anschutz Medical Campus)
Murphy Ballroom, Bldg B, Level 5

WOA am 08:30 Uncovering the Role of Autophagy Impairment on Dysregulated Lipid Metabolism in Skeletal Muscle Aging through Multi-Platform Metabolomics Analysis; Christian Toonstra¹; Zoe Maxwell¹; Heather Brown¹; Michelle Kuhns¹; Edgar Arriaga¹; 'University of Minnesota, Minneapolis, MN

WOA am 08:50 Metabolically Labeled Ribonucleotides Enable
Multiplexed Quantitative Analysis of the Effects
of Stress and Viral Infection by High Resolution
Mass Spectrometry; Thomas J Kenderdine¹; Reza
Nemati²; Rachel Netzband^{1,3}; Molly FitzGibbon⁴;
Will McIntyre¹; Cara T. Pager^{1,3}; Daniele Fabris^{1,3};
¹SUNY Albany, Albany, NY; ²Biogen, Cambridge,
MA; ³The RNA Institute, University at Albany, Albany,
NY; ⁴University of California, San Diego, CA

Native ESI-MS Based Metabolomics Enables WOA am 09:10 the Search for Metal-Binding Molecules; Allegra Aron^{1, 2}; Daniel Petras^{2, 3, 4}; Julia M Gauglitz^{1,} ²; Hui Zhi⁵; Manuela Raffatellu^{2, 5, 6}; Pieter C. Dorrestein^{1, 3}: ¹University of California San Diego. Collaborative Mass Spectrometry Innovation Center, La Jolla, CA; ²University of California San Diego, Center for Microbiome Innovation, La Jolla, CA: ³University of California San Diego, Collaborative Mass Spectrometry Innovation Center, La Jolla, CA; 4University of California San Diego, Scripps Institution of Oceanography, La Jolla, CA; 5University of California San Diego Division of Host-Microbe Systems & Therapeutics, Department of Pediatrics, La Jolla, CA; 6Chiba University-University of California San Diego Center for Mucosal Immunology, Allergy, and Vaccines (CU-UCSD

WOA am 09:30 Creation and Annotation of a Recurrent Spectral Library of Cho Cell Metabolites and Media Components; Kelly H. Telu¹; Ramesh Marupaka¹; Nirina R. Andriamaharavo¹; Yamil Simón-Manso¹; Yuxue Liang¹; Yuri A. Mirokhin¹; Xinjian Yan¹; Tallat H. Bukhari¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD

cMAV), La Jolla, CA

WOA am 09:50 Quantitative Sub-Cellular acyl-CoA Analysis
Using SILEC Internal Standards; Sophie Trefely¹;
Katharina Huber²; Joyce Liu²; Mary Doan³; Helen
Jiang³; Jay Singh³; Kenneth C Bedi²; J. Eduardo
Rame²; Kathryn E. Wellen²; Nathaniel W Snyder³;
¹University of Pennsylvania, Philadelphia, PA;
²University of Pennsylvania, Philadelphia, PA;
³Drexel University, Philadelphia, PA

WOA am 10:10 Chemical Isotope Labeling LC-MS for Studying the Metabolic Response of Single Cells to Heat Shock; Wan Chan¹; Michael C. Schultz¹; Liang Li¹; ¹University of Alberta, Edmonton

8:30 - 10:30 am Wednesday CARBOHYDRATES Session Chair: Ron Orlando (University of Georgia) B401-402

WOB am 08:30 CUPRA-ZYME: A Novel ESI-MS Method for Measuring Carbohydrate-Active Enzyme Activities and Profiling their Substrate

Specificities; Zhixiong Li¹; Pavel I Kitov¹; Erick Bolivar¹; Elena N Kitova¹; <u>John Klassen¹</u>; ¹Department of Chemistry, University of Alberta, Edmonton, AB

WOB am 08:50 Analysis of N-Glycans Released from Monoclonal Antibodies by Combining Ultra High-Resolution Ion Mobility Spectrometry and Cryogenic Ion Spectroscopy; Natalia Yalovenko¹; Ahmed Ben faleh¹; Stephan Warnke¹; Thomas R. Rizzo¹; ¹Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland

WOB am 09:10 Dissecting Fragment Ion Structures of Protonated Oligosaccharides by MSn, Ion Mobility Spectrometry, and Gas-Phase Hydrogen/ Deuterium Exchange Mass Spectrometry; Abhigya Mookherjee¹; Sanjit Singh Uppal¹; Miklos Guttman¹; ¹University of Washington, Seattle, WA

WOB am 09:30 A Simplified Approach to N-Glycan Profiling of Cultured Cells Using MALDI Imaging Mass Spectrometry; Janet Saunders¹; Cassandra L Clift¹; Anand S. Mehta¹; Richard R. Drake¹; Peggi Angel¹;

1 Medical University of South Carolina, Charleston, SC

WOB am 09:50 Comparison of Charge Transfer Dissociation (CTD) and Electron Detachment Dissociation (EDD) for the Structural Analysis of Glycosaminogylcans; Lauren Pepi¹; Zachary J Sasiene²; Praneeth M Mendis²; Glen P Jackson²³; I. Jonathan Amster¹; ¹University of Georgia, Athens, GA; ²West Virginia University. C. Eugene Bennett Department of Chemistry, Morgantown, WV; ³Department of Forensic and Investigative Science, West Virginia University. Morgantown. WV

WOB am 10:10 NanoPGC-LC-EED-MS/MS Analysis of N-linked Glycans in Human Serum; Yang Tang¹; Juan Wei¹; Catherine E. Costello¹; Cheng Lin¹; ¹Boston University, Boston, MA

8:30 - 10:30 am Wednesday
FUNDAMENTALS FOR EVERYONE: PEPTIDES AND PROTEINS
Session Chair: Cheryl Lichti (Washington University in St. Louis)
B405-407

WOC am 08:30 Robust Methods for Endogenous Proteoform Characterization by Immunoprecipitation and Subsequent Targeted Top-Down Proteomic Analysis; Caroline DeHart¹; Luca Fornelli²; Lauren M Adams³; Jacek W Sikora¹; Vincent Gerbasi¹; Ryan T Fellers¹; Richard D Leduc¹; Paul M Thomas¹; Philip D. Compton¹; Neil L Kelleher¹; ¹Proteomics Center of Excellence, Northwestern University, Evanston, IL; ²University of Oklahoma, Norman, OK; ³Northwestern University, Evanston, IL

WOC am 08:50 Ion Mobility Separations of Proteins at
Extreme Fields with Dipole Alignment Tunable
by Changing the Gas Pressure; Alexandre
A. Shvartsburg¹; Roch Andrzejewski²; Andrew
Entwistle²; Roger Giles²; ¹Wichita State University,
Wichita, KS; ²Shimadzu Corporation, Manchester,
United Kingdom

WOC am 09:10

Nanodroplet Sample Processing, Ultra-Low-Flow nanoLC and Next-Generation Tribrid MS
Enable In-Depth, Label-Free Profiling of Single
Mammalian Cells; Yongzheng Cong¹; Ying Zhu²;
Yiran Liang¹; Maowei Dou²; Greg Foster³; Daniel
Lopez-Ferrer³; Yufeng Shen⁴; Ryan T. Kelly¹.²;

¹Brigham Young University, Provo, UT; ²Pacific
Northwest National Laboratory, Richland, WA;

³Thermo Fisher Scientific, San Jose, CA; ⁴CoAnn
Technologies, LLC, Richland, WA

WEDNESDAY MORNING ORAL SESSIONS

WOC am 09:30	on a Q Exactive Platform with Short LC	ENVIRO	8:30 - 10:30 am Wednesday NMENTAL: INNOVATIVE APPROACHES AND
	Gradients; <u>Dorte Breinholdt Bekker-Jensen</u> ¹ ; Patrick L. Ruether ² ; Christian D. Kelstrup ² ; Jesper V. Olsen ² ; ¹ University of Copenhagen, NNF	Session C	INSTRUMENTATION Chair: Pierangela Palma (University of Urbino) B308-309
WOC om 00:50	CPR, Copenhagen N, Denmark; ² University of Copenhagen NNF CPR, Copenhagen N, Denmark	WOE am 08:30	to Explore the Chemistry of Atmospheric Aerosol;
WOC am 09:50	Multimodal Approaches for Non-targeted Discovery of Endogenous D-amino Acid Containing Peptides; David H. Mast¹; James W. Checco¹; Elena V. Romanova¹; Jonathan V. Sweedler¹; ¹University of Illinois at Urbana Champaign, Urbana, IL	WOE am 08:50	James F Davies; UC Riverside, Riverside, CA Byproducts Formation in a VOC Air Cleaning System: Real-Time Analysis Using a Compact FTICR in a Model Plasma Reactor; Sébastien Thomas¹; Nicole Blin-Simiand²; Joel Lemaire³; Michel Héninger³; Hélène Mestdagh³; Lionel
WOC am 10:10	Two Dimensional Mass Spectrometry (2DMS) – the Next Dimension in Proteomics; Pui Yiu Lam¹; Christopher A. Wootton¹; Kung Ching Cookson Chiu¹; Tomos E. Morgan¹; Remy Gavard¹; Meng Li¹; Mark P. Barrow¹; Peter B. O'Connor¹; ¹University of Warwick, Coventry, United Kingdom 8:30 - 10:30 am Wednesday		Magne ² ; Stéphane Pasquiers ² ; Essyllt Louarn ⁴ ; ¹ CSNSM – CSNCM - UMR8609 – Univ. Paris-Sud, CNRS, Univ. Paris-Saclay, Orsay, France; ² LPGP - UMR8578 - Univ. Paris-Sud, CNRS, Univ. Paris-Saclay, Orsay, France; ³ LCP - UMR8000 - Univ. Paris-Sud, CNRS, Univ. Paris-Saclay - Orsay, Orsay, France; ⁴ LCP - UMR8000 - Univ. Paris-Sud, CNRS, Univ. Paris-Saclay, Orsay, France
	OSING AND MICROSAMPLING: ANALYTICAL CHALLENGES ession Chair: Uliana Danilenko (CDC)	WOE am 09:10	
	B302-305 Rapid, Untargeted Metabolomic Profiling of Single Cells in Their Native Environment Using		<u>Damia Barcelo</u> ¹; Antoni Ginebreda¹; Maria Vila Costa¹; Bozo Zonja¹; Nicola Montemurro¹; A Martinez Varela¹; Sandra Perez¹; Daniel Rivas¹;
	Single-Cell Printer-Liquid Vortex Capture-Mass Spectrometry; John F. Cahill ¹ ; Julian Riba ^{2, 3} ; Vilmos Kertesz ¹ ; ¹ Oak Ridge National Laboratory, Oak Ridge, TN; ² University of Freiburg, 79110, Germany; ³ Cytena GmbH, 79108, Germany	WOE am 09:30	IDAEA-CSIC, Barcelona, Spain Iodinated X-ray Contrast Media as a Source of Iodine for the Formation of Iodinated DBPs upon Chlorination during Wastewater Treatment; Caroline O. Granger ¹ ; Hannah K. Liberatore ¹ ; Susan
WOD am 08:50	"Dip and Go": High-Throughput Direct Bioassays by Inductive nESI; Zhenwei Wei¹; Zhuoer Xie¹; Reshma Kuvelkar²; Vinit Shah²; Kevin P. Bateman²; David G. McLaren²; Graham R. Cooks¹; ¹Purdue University, West Lafayette, IN; ²Merck & Co. Inc., Kenilworth, NJ	WOE am 09:50	D. Richardson¹; Mark Ferrey²; ¹University of South Carolina, Columbia, SC; ²Minnesota Pollution Control Agency, St. Paul, Minnesota Dissolved Organic Matter Molecular Composition to Optical Properties Relations as Determined by Ultra-High Resolution Mass-
WOD am 09:10	High Speed System for Analysis of Biological Samples that Corrects for ESI Ionization Suppression in Real Time; Thomas R. Covey¹; Peter Kovarik¹; Chang Liu¹; ¹SCIEX, Concord, ON		Spectrometry; Alexander Zherebker¹; Evgeny Shirshin²; Oleg Kharybin¹; Irina Perminova²; Eugene (evgeny) Nikolaev¹; ¹Skolkovo institute of science and technology, Moscow Region, Russian
WOD am 09:30	On-Line Spatially Resolved Surfaces Sampling Capillary Electrophoresis Mass Spectrometry; Ingela Lanekoff ¹ ; Kyle D Duncan ¹ ; ¹ Uppsala University, Uppsala, Sweden	WOE am 10:10	Federation; ² Moscow State University, Moscow, Russian Federation Chemical or Electron Ionization? The Application of GC×GC HRT in Environmental Research
WOD am 09:50	Inter-Laboratory Validation of Solid-Phase Microextraction-Based Protocol for Untargeted Profiling of Lipids in Rat Brain; Mariola Olkowicz¹; Cian Monnin²; Nathaly Reyes-Garcés¹,³; Sofia Lendor¹; Ezel Bojaci¹,⁴; Miao Yu¹,⁵; German Augusto Gomez-Rios¹,³; Clement Hamani⁶; Barbara Bojko¹,⁻; Dajana Vuckovic²; Janusz Pawliszyn¹;		with Source-Specific Molecular Markers; <u>Ulrich M Hanke</u> ¹ ; Robert K Nelson ¹ ; Christina Kelly ² ; Bruno Glaser ³ ; Christopher M Reddy ¹ ; ¹ Woods Hole Oceanographic Institution, Woods Hole, MA; ² LECO Corporation, St Joseph, MI; ³ Martin-Luther-University Halle-Wittenberg, Halle / Saale, Germany
	¹University of Waterloo, Waterloo, ON; ²Concordia University, Montreal, Qc; ³Restek Corporation, Bellefonte, PA; ⁴Department of Chemistry, Middle East Technical University, Ankara, Turkey; ⁵Icahn School of Medicine at Mount Sinai, New York, NY; °Sunnybrook Health Sciences Centre, Toronto, ON;		8:30 - 10:30 am Wednesday LITY: NEW DEVELOPMENTS & APPLICATIONS hair: Helen Cooper (University of Birmingham) B312-314 Segmented Ion Fractionation and High Field Asymmetric Waveform Ion Mobility
WOD am 10:10	⁷ Nicolaus Copernicus University, Torun, Poland Controlling Variance for Self-collected Plasma; Anatomy, Analysis and Accuracy; Russell Grant ¹ ; Bradley Colllier ¹ ; Jennifer Pollock ¹ ; Julia Hannon ¹ ; Matthew Crawford ¹ ; ¹ Labcorp., Burlington, NC	WOF am 08:50	Spectrometry Expands Proteome Coverage to Uncover Sequence Variants; Eric Bonneil¹; Sibylle Pfammatter¹.²; Pierre Thibault¹.²; ¹IRIC-Université de Montréal, Montréal, QC; ²Department of Chemistry, Université de Montréal, Montréal, QC A Novel Cyclic Ion Mobility Enabled Method for Data Enrichment, Selectivity and Sensitivity
			Enhancement in MS/MS Experiments; Eleanor Riches¹; Martin Palmer¹; Jakub Ujma¹; Kevin Giles¹;

WEDNESDAY MORNING ORAL SESSIONS



Sunghwan Kim²; ¹Waters Corporation, Wilmslow, United Kingdom; ²Kyungpook National University, Daegu, South Korea

WOF am 09:10 A Drift-Tube Ion Mobility-Mass Spectrometer for Native Mass Spectrometry: High Resolution Ion Mobility, Collision Induced Unfolding, and Electron Capture Dissociation; Varun Gadkari¹; Ruwan T Kurulugama²; John C. Fjeldsted²; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Agilent Technologies, Inc., Santa Clara, CA

WOF am 09:30 Top-Down Sequencing of Mobility-Selected Glycoprotein Complexes Using Tandem Trapped Ion Mobility Spectrometry – Mass Spectrometry (Tandem-TIMS/MS); Fanny C Liu¹; Mark E. Ridgeway²; Melvin A. Park²; Christian Bleiholder¹; ¹Florida State University, Tallahassee, FL; ²Bruker Daltonics Inc., Billerica, MA

WOF am 09:50 Trapped Ion Mobility Mass Spectrometry as a Tool for Neuropeptidome Analysis; Geert Baggerman^{1,2}; Kristina Marx³; Harshavardhan Budamgunta²; Gerben Menschaert⁴; Kurt Boonen^{2,5}; *1Vito, Mol, Belgium; *2Uantwerpen, Antwerpen, Belgium; *3Bruker Daltonik GmbH, Bremen, Germany; *4UGent, Gent, Belgium; *5Vito, Mol, Belgium

WOF am 10:10 Broad Targeted Phosphoproteomics analysis
Using Structures for Lossless Ion Manipulations
(SLIM) Ion Mobility-MS; Yi-Ting Wang¹; Gabe
Nagy¹; Adam Hollerbach¹; Chia-Feng Tsai¹; Karin
Rodland¹; Tujin Shi¹; Richard Smith¹; Tao Liu¹;

¹Biological Science Division, Pacific Northwest
National Laboratory, Richland, WA

8:30 - 10:30 am Wednesday

FUNDAMENTALS FOR EVERYONE: STRUCTURAL ELUCIDATION
Session Chair: Albert T. Lebedev (Moscow State University)
Auditorium, Bldg A

WOG am 08:30 Structural Elucidation of Metabolites Using Accurately Computed Fragmentation Patterns and Searches in Databases of 2D Molecular Structures; Bela Paizs^{1, 2}; Zoltan Takats^{2, 3}; ¹Bangor University, Bangor, United Kingdom; ²deshape Itd, Bangor, United Kingdom; ³Imperial College, London, United Kingdom

WOG am 08:50 Gas-Phase Ion/Ion Chemistry for the Detailed Structural Analysis and Relative Quantitation of Unsaturated Lipids; Caitlin E. Randolph¹;
David J. Foreman¹; Stephen J. Blanksby²; Scott A McLuckey¹; ¹Purdue University, West Lafayette, IN; ²Central Analytical Research Facility, Institute for Future Environments, Queensland University of Technology, Brisbane, Australia

WOG am 09:10 IRMPD Ion Spectroscopy and Ion-Molecule Reactions as Structure Elucidation Tools for Peptide Radical Ions; Victor Ryzhov; Northern Illinois University, Dekalb, IL

WOG am 09:30 Characterization of Small Molecule Unknowns
Using the AcquireX Data Acquisition Strategy;
Seema Sharma¹; Stephanie N. Samra¹; Caroline
Ding¹; Kate J. Comstock¹; Reiko Kiyonami¹; Scott M.
Peterman¹; Graeme McAlister¹; Mark Sanders¹; Vlad
Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose,

WOG am 09:50 Cationized Glycan Fragmentation Chemistry;
Benjamin Bythell; Univ. of Missouri-St. Louis, St.
Louis, MO

WOG am 10:10 Comparative Study of 'Ortho-' and 'Para-'
Effects in El Spectra Of Silyl, Acyl, Mesyl
and Tosyl Derivatives of tert-Butylphenols /

Thiophenols; Anzor Mikaia¹; Nino Todua^{1, 2}; Levan Megutnishvili¹; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²Strativia, Largo, MD

8:30 - 10:30 am Wednesday SYNTHETIC POLYMERS Session Chair: Rainey Patterson Garland (Eastman Chemical Co.) A411-412

WOH am 08:30 High-Throughput Screening of Polysorbates by High Resolution Mass Spectrometry with Rapid H/D Exchange; Kui Yang¹; Asha Hewarathna¹; Ilan Geerlof-Vidavsky¹; Connie Ruzicka¹; David Keire¹; ¹FDA. St. Louis. MO

WOH am 08:50 Analysis of Biocompatible Synthetic Polymers with Electron Capture Dissociation and Two-Dimensional Mass Spectrometry; Tomos

E. Morgan¹; Sean H. Ellacott¹; Andrew Kerr¹;
Christopher A. Wootton¹; Bryan P. Marzullo¹; Maria van Agthoven¹; Mark P. Barrow¹; Anthony W. T.
Bristow²; Sebastien Perrier¹; Peter B. O'Connor¹;
¹University of Warwick, Coventry, United Kingdom;
²AstraZeneca, Macclesfield, United Kingdom

WOH am 09:10 Probing the Reaction Mechanisms of Troger's
Base Polymers of Intrinsic Microporosity;
Anthony P. Gies¹; Robert E. Hefner¹; Nathan J.
Rau¹; Praveenkumar Boopalachandran¹; ¹The Dow
Chemical Company, Lake Jackson, TX

WOH am 09:30 Secured Communications with Sequence-Controlled Synthetic Polymers: Decoding by Tandem Mass Spectrometry, Decrypting by Ion Mobility Spectrometry; Jean-Arthur Amalian¹; Gianni Cavallo²; Abdelaziz Al Ouahabi²; Jean-François Lutz²; Laurence Charles¹; ¹Aix-Marseille University, Marseille Cedex 20, France; ¹Institut Charles Sadron, University of Strasbourg, Strasbourg, France

WOH am 09:50

Determination of Gas Phase Ion Structures of Polar Homopolymers through Ultra-High Resolution Ion Mobility Spectrometry-Mass Spectrometry; Xi Chen^{1, 2}; Shannon A. Raab³; Timothy Poe¹; David E. Clemmer³; Carlos Larriba Andaluz¹; ¹IUPUI, Indianapolis, IN; ²Purdue University, West Lafayette, IN; ³Indiana University, Bloomington, IN

WOH am 10:10 Charge Detection Mass Spectrometry with an Orbitrap Analyzer; Jared O. Kafader¹; Rafael D. Melani¹; Bryan P. Early¹; Kenneth R. Durbin¹; Neil L. Kelleher¹; Philip D. Compton¹; Steven C. Beu²; Deven L. Shinholt³; Joshua T. Maze³; Alexander A. Makarov⁴; Vlad Zabrouskov⁵; Michael W. Senko⁵; ¹Northwestern University, Evanston, IL; ²S.C. Beu Consulting, Austin, TX; ³Thermo Fisher Scientific, Austin, TX; ⁴Thermo Fisher Scientific, San Jose, CA

10:30 am - 2:30 pm Wednesday

WEDNESDAY POSTER SESSION
Poster/Exhibit Hall ground level
Lunch concessions are open 11:00 am - 2:00 pm

Odd-number posters present: 10:30 am - 11:30 am <u>PLUS</u> 12:30 - 2:30 pm

Even-number posters present: 10:30 am - 12:30 pm <u>PLUS</u> 1:30 - 2:30 pm

Poster Pick-Me-Up Snacks served at 1:30 pm

WEDNESDAY AFTERNOON ORAL SESSIONS

	2:30 - 4:30 pm Wednesday ABOLOMICS: UNTARGETED PROFILING	WOB pm 03:50	Rapid Solution-Phase HDX for Small Molecule Identification; Sandra N Majuta ¹ ; Chong Li ¹ ; Kinkini
Session WOA pm 02:30	Chair: Elizabeth J. Want (Imperial College) Murphy Ballroom, Bldg B, Level 5 Determining the Metabolic Fate of Nitrogen Oxide Species Using Isotopic Tracing and High		Jayasundara¹; Ahmad Kiani Karanji¹; Kushani Attanayake¹; Nandhini Ranganathan¹; Peng Li¹; Stephen Valentine¹; ¹West Virginia University.C. Eugene Bennett Department of Chemistry,
	Resolution Mass Spectrometry; <u>Steven Mullett</u> ¹ ; Stacy L. Wendell ² ; ¹ University Of Pittsburgh, Pittsburgh; ² University of Pittsburgh, Pittsburgh, PA	WOB pm 04:10	Morgantown, WV New Electrochemical Cell for Superior On-line Reduction of Disulfide Bonds in MS Proteomics;
WOA pm 02:50	Single-Cell Metabolomic Analysis of Metastatic and Non-Metastatic Cell Line Pairs Using Mass Spectrometry; Shelby R Beasley ¹ ; Mei Sun ¹ ; Zhibo Yang ¹ ; ¹ University of Oklahoma, Norman, OK		<u>Jean-Pierre Chervet</u> ¹ ; Pablo Sanz de la Torre ¹ ; Hendrik Jan Brouwer ¹ ; Martin Eysberg ² ; ¹ Antec Scientific, Zoeterwoude, Netherlands; ² Antec Scientific, Boston, MA
WOA pm 03:10	Enhancing Untargeted Metabolomics with Fast-Scanning Field Asymmetric Waveform Ion Mobility Spectrometry; James Reynolds ¹ ;	FOREN	2:30 - 4:30 pm Wednesday ISICS: INNOVATIONS AND APPLICATIONS
WOA pm 03:30	Katarzyna Szykula¹; Colin Creaser¹; ¹Loughborough University, Loughborough, United Kingdom Development of Advanced Processing Workflow		Session Chair: Travis M. Falconer (US Food & Drug Administration) B405-407
W 67 (pin 66.66	for Untargeted Volatilomics By GC×GC-TOFMS; Pierre-Hugues Stefanuto¹; Delphine Zanella¹; Maurine Fucito¹; Florence Schleich²; Renaud Louis²; Jean-François Focant¹; ¹Liège University, Liege, Belgium; ²Liège University Hospital, Liège, Belgium	WOC pm 02:30	
WOA pm 03:50	MetaboPique: A High-Throughput Computational Workflow for Validating, Annotating, and		Corthals ¹ ; ¹ University of Amsterdam, Amsterdam, Netherlands
	Organizing Small Molecule MS/MS Spectra Derived from Biological Samples; Tytus D Mak¹; Concepcion A Remoroza¹; Meghan C Burke¹; Kelly H Telu¹; Stephen E Stein¹; ¹National Institute of Standards and Technology, Gaithersburg, MD	WOC pm 02:50	Proteomic Profiling of Single Hairs Recovered after an Explosion for Protein-Based Human Identification; Fanny Chu ^{1, 2} ; Katelyn E. Mason ¹ ; Deon S. Anex ¹ ; A. Daniel Jones ² ; Bradley Hart ¹ ; 1 Lawrence Livermore National Laboratory,
WOA pm 04:10	A High-Throughput Method for Obtaining Microbial Exometabolomics Data Using a 3D		Livermore, CA; ² Michigan State University, East Lansing, MI
	Printed Platform; Caroline Birer ¹ ; Rosalie K. Chu ² ; Christopher Anderton ² ; Erik S. Wright ¹ ; ¹ Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA; ² Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA	WOC pm 03:10	Carrion Insect Species Identification From Multi-species Mixtures of Larvae Using Multi-label Classification of DART-HRMS Data for Postmortem Interval Determination; Rabi A. Musah¹; Samira Beyramysoltan¹; Justine E. Giffen¹; Jennifer Y. Rosati²; Monica Ventura¹; ¹University at Albany-SUNY, Albany, NY; ²John Jay College of
	2:30 - 4:30 pm Wednesday N-DEUTERIUM EXCHANGE MS: INNOVATIONS air: Miklos Guttman (University of Washington)	WOC pm 03:30	Criminal Justice, New York City, NY Towards On-Site Drug Evidence Confirmation via Surface-Enhanced Raman Spectroscopy and
WOB pm 02:30	Advanced Statistical Methods for Analysis of HX-MS Data in Higher-Order Structural Comparability and Similarity Contexts Using Hybrid Significance Criteria; Tyler S Hageman ¹ ; David Wolst: "University of Kanaga Lawrence KS		Paper Spray Ionization Employed on Portable Instrumentation; William L. Fatigante ¹ ; Ashley R. Stelmack ¹ ; Daniel Burr ¹ ; John Harms ¹ ; Jeremy D. Driskell ¹ ; Jun-Hyun Kim ¹ ; Jamie R Wieland ¹ ; Christopher Mulligan ² ; *Illinois state university, Normal, IL; *Illinois State University, Normal, IL
WOB pm 02:50	<u>David Weis</u> ¹ ; ¹ University of Kansas, Lawrence, KS New insights into Differences in Intrinsic HDX Rates at Different pH and Temperature; <u>Jun</u> <u>Zhang</u> ¹ ; Devrishi Goswami ² ; zhoangqi Zhang ² ; ¹ Amgen, Inc, Thousand Oaks, CA; ² Amgen, Inc., Thousand Oaks, CA	WOC pm 03:50	ASAP Mass Spectrometry for the Real-Time Identification of Psychoactive Drugs Supplied by the Public as Part of a Harm-Reduction Service; Christopher A Whitmore ^{1, 2} ; Guy Jones ^{2, 3} ; Fiona Measham ^{1, 2} ; Jackie Mosely ^{1, 2} ; ¹ Durham
WOB pm 03:10	Synergistic Structural Information about Stressed Therapeutic Antibodies from Hydrogen Deuterium Exchange and Covalent Labeling Mass Spectrometry; Catherine Tremblay¹; Patanachai Limpikirati¹; Richard W. Vachet¹;	WOC pm 04:10	University, Durham, United Kingdom; ² The Loop, Manchester, United Kingdom; ³ Reagent Tests, Cambridge, United Kingdom Mass Spectrometry-Derived Information Concerning Atypical Findings Critical to Sports
WOB pm 03:30	¹ University of Massachusetts-Amherst, Amherst, MA Hydrogen-Deuterium Exchange Mass Spectrometry Reveals the Mechanism of		Drug Testing: 19-Norandrosterone and AICAR; Mario Thevis¹; Frank Huelsemann¹; Thomas Piper¹; German Sport University Colonne, Germany

Spectrometry Reveals the Mechanism of

United Kingdom

Multidrug Resistance in the Efflux Pump AcrB;

Xuan Wang Kan²; Elizabeth Grimsey²; Laura J. V. Piddock²; ¹King's College London, London, United Kingdom; ²University of Birmingham, Birmingham,



German Sport University, Cologne, Germany

WEDNESDAY AFTERNOON ORAL SESSIONS



2:30 - 4:30 pm Wednesday

ENDOGENOUS PROTEIN BIOMARKERS IN DRUG DISCOVERY AND DEVELOPMENT: QUANTITATIVE ANALYSIS Session Chair: Naiyu Zheng (Bristol-Myers Squibb Company) B302-305

WOD pm 02:30 A Sensitive LC-HRMS Method for the

Quantitation of Dystrophin Protein in Human Muscle Tissue; Kevork Mekhssian¹; Hélène Montpetit1; Romain Beauvois1; Hironori Osaki2; Anahita Keyhani¹; ¹Altasciences, Laval, QC; ²NS Pharma, Paramus, NJ

WOD pm 02:50

IL2 Receptor α/β/γ Turnover Kinetic Measurement In vitro by Serial Immuno Affinity(IA) Capture and Targeted LC/MS Method; Xiaomeng Shen1; Kevin Cook1; Yun Ling1; Dan A Rock¹; Brooke Rock¹; ¹Amgen, South San Francisco,

WOD pm 03:10

Interrogation of the Tumor Microenvironment: LCMS-based Quantitation of Target, Drug, and Relevant Biomarkers for Drug Discovery; Petia Shipkova¹; Yongxin Zhu¹; Jacob Zalaznick¹; Bogdan Sleczka¹; Matthew Mazur¹; Karen Parrish¹; Zheng Yang¹; Timothy Olah¹; ¹Bristol Myers Squibb, Princeton, NJ

WOD pm 03:30

Proteomic Analysis Revealed Targeting Crosstalk of Histone H3K27me and H3K27ac as a Therapeutic Strategy for EZH2-Aberrant Solid Tumors; Minjia Tan¹; Min Zhang²; Xun Huang²; Juan Yan2; Zhiwei Liu2; Linhui Zhai2; Jian Ding2; Meiyu Geng²; ¹Shanghai Institute of Materia Medica, Shanghai, China; ²Shanghai Institute of Materia Medica, Shanghai, China

WOD pm 03:50

Absolute Quantitation of Cellular Retinol Binding Protein, Type 1 in Cancer-Relevant Cell Lines via In-Gel Digestion; Stephanie Zalesak1; Wenjing Li1; Jianshi Yu¹; Maureen Kane¹; ¹University of Maryland, Baltimore- School of Pharmacy, Baltimore, MD

WOD pm 04:10

Concentration Measurements of 220 Endogenous Proteins in Capillary Blood Using Dried Blood Spots, as Determined by MRM with Peptide Standards; Azad Eshghi1; Adam J. Pistawka²; Jun Liu³; Michael Chen⁴; Nicholas J. T. Sinclair¹; Darryl B. Hardie¹; Monica Elliott¹; Lei Chen1; Rachael Newman1; Christoph H. Borchers1, ^{2, 5, 6}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 2Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 3Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC; 4Island Medical Program, Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC; 5Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 6Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC

2:30 - 4:30 pm Wednesday **CLINICAL ANALYSIS: MS IN THE OPERATING ROOM** Session Chair: Y. Ruben Luo (UCSF) B308-309

WOE pm 02:30 In vivo and Intraoperative Tissue Analysis and Diagnosis Using the MasSpec Pen; Jialing Zhanq¹; Marta Sans¹; Christopher Pirko²; Rachel J. DeHoog1; Kyana Garza1; Clara L. Feider1; Mary King¹; Alena Bensussan¹; John Q. Lin¹; Michael Keating¹; Timothy Hooper¹; Wendong Yu²; Chandandeep Nagi2; Sadhna Dhingra2; George

Van Burren²; Stacey Carter²; William Fisher²; Omar Barakat²; Raymon Grogan²; Thomas E. Milner³; James Suliburk2; Livia S. Eberlin1; 1University of Texas, Department of Chemistry, Austin, TX; 2Baylor College of Medicine, Houston, TX; 3University of Texas, Austin, TX

WOE pm 02:50

In vivo Tissue Classification Using Surgical **Robotics and Rapid Evaporative Ionisation** Mass Spectrometry - towards the Chemically Aware Surgical Robot: Eftychios Manoli¹; Burak Temelkuran¹; Julia Balog²; Steven Pringle²; Jagtar Dhanda³; Ara Darzi¹; Neil Tolley¹; Zoltan Takats¹; ¹Imperial College London, London, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom; ³Queen Victoria Hospital, East Grinstead, UK, East Grinstead, United Kingdom

WOE pm 03:10

Moving Forward into in vivo Intraoperative **Diagnostic Using Water-Assisted Laser Desorption/Ionization Mass Spectrometry**; Philippe Saudemont¹; Nina Ogrinc¹; Yves-Marie Robin²: Benoit Fatou^{1, 3}: Cristian Focsa³: Michael Ziskind³; Dominique Tierny⁴; Zoltan Takats⁵; Michel Salzet¹; Isabelle Fournier¹; ¹PRISM Inserm U1192 - University of Lille, Villeneuve D'ascq Cedex, France; ²Pathology Department, Centre Oscar Lambret, Lille, France; 3University of Lille, CNRS UMR 8523 PhLAM, Villeneuve d'Ascq, France; ⁴OCR, Villeneuve d'Ascq, France; ⁵Imperial College London, Department of Surgery and Cancer, United Kingdom

WOE pm 03:30

Infrared Laser Based Real-Time, in vivo Tissue Identification in Veterinary Surgery Using Laser-**Assisted Rapid Evaporative Ionization Mass** Spectrometry; Viktoria Varga1; Steven D Pringle2; Gabriel Stefan Horkovitcs-Kovats³; Julia Balog³; ¹Waters Research Center Kft., Budapest, Hungary; ²Waters Corporation, Wilmslow, United Kingdom; ³Waters Research Center, Budapest, Hungary Implementation of Ambient MS-Based Tissue

WOE pm 03:50

Profiling for Assistance on Neurosurgery Operations of Brain Cancer; Igor Popov1; Anatoly Sorokin^{1, 2}; Vsevolod Shurkhay³; Vasiliy Eliferov1; Evgeny Zhvansky1; Stanislav Pekov1,4; Alexander Potapov3; Eugene (evgeny) Nikolaev5; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; 2Institute of Cell Biophysics RAS, Pushchino, Russia; 3N. N. Burdenko Scientific Research Neurosurgery Institute, Moscow, Russia; Institute for Energy Problems of Chemical Physics RAS, Moscow, Russia; 5Skolkovo institute of science and technology, Moscow Region, Russian Federation

WOE pm 04:10

Qualitative Classification of Tissue Amyloidosis and Subtyping by Mass Spectrometry; Srinivas V.s Chakravartula¹; Adolfo Firpo Betancourt²; Damodara Rao Mendu³; Tin Htwe Thin²; Salem Fadi³: Michael Donovan²: Carlos Cordon Cardo²: ¹Mount Sinal Hospital, New York City, New York; ²Icahn School of Medicine at Mount Sinai, New York, NY; 3Mount Sinai Hospital, New York City, NY

2:30 - 4:30 pm Wednesday

ION MOBILITY: SMALL MOLECULES, PHARMACEUTICALS, AND DMPK

Session Chair: Erin Baker (North Carolina State University) B312-314

WOF pm 02:30

Clinical Metabolomics Study Uncovers the Outcome of Radiation Therapy in Cancer Patients; Nicholas B. Vera^{1, 2}; Evan Pannkuk³;

WEDNESDAY AFTERNOON ORAL SESSIONS

W05 vv 00 50	Evagelia C Laiakis³; Albert J Fornace³; Stephen L. Coy²; Michelle Clasquin¹; Paul Vouros²; ¹Pfizer, Internal Medicine Research Unit, Cambridge, MA, 02139; ²Department of Chemistry and Chemical Biology, Northeastern University, Boston, MA 02115; ³Georgetown University, Washington, DC	WOG pm 03:10	MicroArray Droplet Ionization for Spatially Controlled Imaging of Lipids and Metabolites in Biological Samples; Marta Sans ¹ ; Anna Krieger ¹ ; Bryan Wygant ¹ ; Kyana Garza ¹ ; C. Buddie Mullins ¹ . ² ; Livia S. Eberlin ¹ ; ¹ University of Texas, Austin, TX; ² McKetta Deartment of Chemical Engineering, The
WOF pm 02:50	Characterization of Gas-Phase Structures of Drug Metabolites Using Ion Mobility-Mass Spectrometry; <u>Dylan H. Ross</u> ¹; Ryan P. Seguin¹; Libin Xu¹; 'University of Washington, Seattle, WA	WOG pm 03:30	Compounds in Matrix Assisted Ionization; Bijay Banstola ¹ ; Kermit K. Murray ¹ ; ¹ Louisiana State
WOF pm 03:10	DMS Separation, IR Identification, and Quantification of Amino Acids and Related Compounds in Plasma Samples; Francis Berthias ¹ ; Yali Wang ¹ ; Eskander Alhajji ¹ ; Jean- François Benoist ² ; Philippe Maitre ³ ; ¹ Université Paris-Sud, Orsay, France; ² Hôpital Robert Debré, Paris, France; ³ Université Paris Sud, Orsay, France	WOG pm 03:50	University, Baton Rouge, LA Understanding the Implications of Confined DART-MS: Considerations and Strategies for Optimization; Edward Sisco ¹ ; Thomas P. Forbes ² ; Matthew Staymates ² ; ¹ National Institute of Standards and Technology, Gaitherburg, MD; ² National Institute of Standards and Technology, Gaithersburg, MD
WOF pm 03:30	Rapid Detection of Fentanyl Analogs Using GC-APCI-TIMS-TOF MS; Elisa N Shoff ^{1, 2} ; Cesar E Ramirez ¹ ; Francisco A. Fernandez-Lima ¹ ; ¹ Department of Chemistry and Biochemistry, Florida International University, Miami, FL; ² Miami-Dade Medical Examiner Department, Miami, FL	WOG pm 04:10	• • • • • • • • • • • • • • • • • • • •
WOF pm 03:50	Development of Ion Mobility-Mass Spectrometry Methods and Collision Cross Section Database for Improved Identification of Microbiome- Derived Metabolites; Matthew Glover ¹ ; Omari Jones-Nelson ¹ ; Taylor Cohen ¹ ; Wen Yu ¹ ; Paul Warrener ¹ ; Bret Sellman ¹ ; Sonja Hess ¹ ;	Session Chair	2:30 - 4:30 pm Wednesday INDAMENTALS: DDA AND DIA LC-MS : Stefan Tenzer (University Medical Center Mainz)
WOF pm 04:10	¹MedImmune, Gaithersburg, MD Imaging Mass Spectrometry Including Ion Mobility Separation Sheds Light on Bacterial Responses to Different Cultivation Conditions; Francesca Brescia¹.²; Samuele Zoratto³; Gerardo Puopolo²; Ilaria Pertot²; Martina Marchetti- deschmann³; ¹Department of Sustainable Ecosystems & Bioresources, Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige, Italy; ²Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, Udine, Italy; ³Institute of Chemical Technologies and Analytics, TU Wien, Vienna, Austria	WOH pm 02:50	Accumulation – Serial Fragmentation; Florian Meier¹; Andreas-David Brunner¹; Max Frank²; Annie Ha²; Eugenia Voytik¹; Stephanie Kaspar-Schönefeld³; Markus Lubeck³; Heiner Koch³; Scarlet Koch³; Oliver Raether³; Ben C Collins⁴; Ruedi Aebersold⁴.⁵; Hannes Röst²; Matthias Mann¹.⁶; ¹Max-Planck-Institute of Biochemistry, Martinsried, Germany; ²Donnelly Centre for Cellular and Biomolecular Research, University of Toronto, Toronto, ON; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴ETH Zurich, Zurich, Switzerland; ⁵University of Zurich, Zurich, Switzerland; 6University of Copenhagen, Copenhagen, Denmark Combining Drift Tube Ion Mobility and
	2:30 - 4:30 pm Wednesday TION: AMBIENT IONIZATION AND APPLICATIONS ir: G. Asher Newsome (Smithsonian Institution) Auditorium, Bldg A First implementation of Rapid Evaporative Ionisation Mass Spectrometry (REIMS) for the At-Line Screening of Boar Carcasses in the Slaughter House; Lieselot Y Hemeryck¹; Sara		Quadrupole Selectivities for Data Independent Workflows for Metabolomics; Tim Causon ¹ ; Max Feuerstein ¹ ; Ruwan T. Kurulugama ² ; George Stafford ² ; John C. Fjeldsted ² ; Stephan Hann ¹ ; ¹ Institute of Analytical Chemistry, Department of Chemistry, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria; ² Agilent Technologies, Inc., Santa Clara, CA
	L Stead ² ; Anneleen Decloedt ¹ ; Steve Huysman ¹ ; Julia balog ³ ; Margot DeSpiegeleer ¹ ; Steven D Pringle ² ; aurelien boland ⁴ ; <u>Lynn Vanhaecke¹</u> ; ¹ Ghent University, Ghent, Belgium; ² Waters Corporation, Wilmslow, United Kingdom; ³ Waters Research Centre, Budapest, Hungary; ⁴ Waters Benelux,	WOLL pm 03:30	Improving Quantification Using MS1 and MS2 Information in Data Independent Acquisition; Roland Bruderer¹; Ting Huang²; Jan Muntel¹; Oliver M. Bernhardt¹; Olga Vitek²; Lukas Reiter¹; ¹Biognosys, Schlieren, Switzerland; ²Khoury College of Computer and Information Sciences, Boston, MA
WOG pm 02:50	Brussels, Belgium A Single-Cell Look at Biological Nitrogen Fixation: Rapid Determination of Metabolite Formulas from Isotopic Fine Structures in Heterogeneous Cell Populations; Laith Z Samarah¹; Rikkita Khattar¹; Tina H Tran¹; Sylwia A Stopka¹; Dusan Velickovic²; Christopher R Anderton²; Jared B. Shaw²; Nikola Tolic²; David W Koppenaal²; Ljiljana Pasa-Tolic²; Beverly J Agtuca³; Gary Stacey³; Akos Vertes¹; ¹The George Washington University, Washington, DC; ²Pacific Northwest National Laboratory, Richland, WA; ³University of Missouri, Columbia, MO	WOH pm 03:30 WOH pm 03:50	Performance and Evaluating Interference in Isobaric Tag-based Workflows; Joao A Paulo ¹ ; Jose Navarrete-Perea ¹ ; Steven P Gygi ¹ ; ¹ Harvard Medical School, Boston, MA

WEDNESDAY AFTERNOON ORAL SESSIONS AND 5:45 - 7:00 PM WEDNESDAY WORKSHOPS



WOH pm 04:10 Defying Gravity in Orbitrap Mass Spectrometry;

Jan-Peter Hauschild¹; Amelia Peterson¹; Erik
Couzijn¹; Eduard Denisov¹; Denis Chernyshev¹;
Christian Hock¹; Hamish Stewart¹; Ralf Hartmer¹;
Christian Thoeing¹; Oliver Lange¹; Mathias Mueller¹;
Arne Kreutzmann¹; Wilko Balschun¹; Aivaras
Venckus¹; Alexander Kholomeev¹; Gregor Quiring¹;
Frank Czemper¹; Tabiwang N. Arrey¹; Kerstin
Strupat¹; Julia Kraegenbring¹; Markus Kellmann¹;
Alexander Harder¹; Alexander Makarov¹; ¹Thermo
Fisher Scientific (Bremen) GmbH, Bremen, Germany

4:45-5:30 pm Wednesday
ASMS MEETING
Richard A. Yost (University of Florida), presiding
Enjoy a beverage and hear the latest ASMS news.
B302-305

5:45 - 7:00 PM WEDNESDAY WORKSHOPS

There will be light refreshments in Building A foyers. All workshops are in Building A.

01 MS-Based Interactomics: Computational Resources and Tools for Studying the Physical Interactome (Bioinformatics MS Interest Group)
Presiding: Isabell Bludau, William Noble
A402-403

The large variety of molecular functions in living systems are frequently not performed by single molecules, but are a result of the interplay between different molecular entities. Proteins, metabolites, lipids, RNA and DNA molecules interact among themselves and with each other to give rise to a large variety of functional modules inside the cell. Studying the quantity, subunit composition and topology of these modules and their dynamic change upon perturbations is therefore of fundamental interest for biology. In this workshop, we aim to introduce and discuss various strategies to analyze the physical interactome of biological molecules. We will specifically focus on available resources and software tools for (a) the in silico prediction of interactions, (b) the computational analysis of large-scale interactomics datasets (including AP-MS, cross-linking MS, protein correlation profiling, LiP-MS, etc.) and (c) the integration of data generated by multiple orthogonal strategies. We will invite leading experts in the field to present an overview of available databases and software tools as well as to provide general guidelines on their usability for different applications. Finally, we will discuss recent developments and future perspectives in the area of MS-based interactomics.

> 02 IMS: When Chromatography Just Won't Do (Ion Mobility MS Interest Group) Presiding: Brian Clowers, Jakub Ujma, Ian Webb A404-405

Fundamental measurements of gas-phase ion properties serve as the foundation describing ion mobility (IM); this property is often exploited for analytical benefits. With historical names such as Plasma Chromatography and Gaseous Electrophoresis, ion mobility techniques often have logical analogues to more traditional chromatographic techniques. Until recently, the major differentiator between IM separations and contemporary chromatographic techniques was the speed of analysis.

Advances in ion confinement and manipulation (e.g. ion funnels, T-wave, and SLIM technologies) allowed increases in the separation path lengths, thus significant enhancements in resolving power (Rp) have been achieved; often at a cost of increased separation time scales. Improvements in Rp can also be achieved by increasing the strength of the applied electric field. This, in principle offers increased Rp and reduced separation time scale, but several practicalities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered. As the separating power of ion mobilities have to be considered and in the mass spectrometry systems used for detection. More specifically, as peak widths narrow in the temporal domain, minimizing peak broadening in the IM-MS transfer region (equivalent to extra-column broadening in

chromatography) becomes paramount as well as compatibility of MS analyser/detector with the high fidelity ion mobility distributions.

To provide the community with a contemporary view of ion mobility-mass spectrometry techniques this forum will highlight the emergent, fast approaches to enhance separation selectivity of gas-phase ions. This workshop will cover methods hyphenated with IM, in particular those benefiting from the speed of IM separation. Finally, this workshop aims to promote discussion about the role of ion mobility techniques in tandem with chromatographic techniques and in some cases serve as a rapid replacement for front end separations prior to mass analysis.

03 Clinical Applications: Standardization and Harmonization Efforts
(Clinical Chemistry Interest Group)
Presiding: Candice Ulmer, Donald Chace
A406-407

With the advent of novel mass spectrometric reference measurement procedures and improved clinical analyzers for clinical diagnostics, standardized results have become a necessity in the clinical setting to ensure accuracy/reliability in laboratory measurements, consistent disease diagnosis, and appropriate treatment for patients. Standardization ensures that laboratory testing is accurate, reliable, and precise across methods and over time. In addition, standardization is important in the clinical setting as many clinical/public health decisions are made and evidence-based patient guidelines written using laboratory measurements. Comparable measurements are needed between multiple assays, including those performed on clinical analyzers and mass spectrometers to allow for the generation of analytespecific reference values. As a means to harmonize immunoassays and mass spectrometric procedures, reference materials and international standards are needed for method calibration purposes and conversion values. This workshop will [1] highlight the need for harmonized results, [2] introduce ongoing standardization efforts within clinical chemistry, and [3] discuss opportunities to create and engage in commutability studies, certification programs, and clinical-based interlaboratory studies.

04 Exposomics Workshop (Exposomics Interest Group) Presiding: Jarod Grossman, Silvia Balbo, Benedikt Warth A408

This workshop will have a panel consisting of thought leaders in different scientific fields of the exposome space. They will discuss their work and challenges they have overcome and encountered in their research.

Global interest in the exposome is growing and this expansion can be seen in the increased number of exposome publications in peer reviewed journals since 2010. There are many funded research endeavors designed to 'explore the exposome.' In the EU, HEALS,

5:45 - 7:00 PM WEDNESDAY WORKSHOPS



There will be light refreshments in Building A foyers. All workshops are in Building A.

HELIX and EXPoSOMICS are all underway. PI's represent Imperial College, London, Aristotle University of Thessaloniki and CREAL in Barcelona. The Phenome Center has been established at Imperial College, London. In the US, NIEHS has funded HERCULES at Emory University and US EPA and CDC both define the exposome as a critical entity required to better understand the non-genetic contribution to chronic disease. Moreover, major US and Canadian Universities including Harvard, University of Pennsylvania, Stanford, University of Alberta and those mentioned above are engaged in exposome research. In Japan, NIES is conducting a prospective mother / child cohort, with more than 300,000 participants, to measure the exposome and in China, several University's are moving away from measuring pollutants in air and water, and into the exposome paradigm.

One major goal of biotherapeutic process development (PD) is to produce the same high quality product in every experiment regardless of scale. To achieve this goal, PD scientists need to employ process analytical technologies (PAT) that can provide data on the upstream process (e.g. temperature, pH, glucose, amino acids, cell viability, and metabolites), downstream process (e.g. process-related impurities and host-cell impurities) and product quality attributes of the final product (e.g. charge isoforms, aggregates, and glycoforms). Mass spectrometry is an extremely valuable tool for characterizing bulk drug substance to identify critical quality attributes that affect the safety and efficacy of the product. However, MS-based PAT may also be used to characterize in-process molecules and study other upstream and downstream parameters that dictate the attributes of the final product. This workshop will be an interactive discussion amongst a panel of experts and the workshop attendees on the current state of mass spectrometry-based PATs and how they are improving PD. Topics may include application of MS for real-time (on-line / at-line) analysis of in-process materials, quality by design (QbD), continuous biomanufacturing, automated sample handling / preparation, automated data processing (e.g. intact deconvolution), novel technologies for MS-based charge isoform characterization, application of proteomics or metabolomics to support process development, and others. Please join us to ask questions, share your knowledge and experience, and discuss the future of MSbased PAT for the development of biotherapeutics.

06 Endogenous Biomarkers: Measurement to Predict in vivo Drug-Drug Interactions (DMPK Interest Group) Presiding: Jonathan Josephs, Brian Rago, Aaron Teitelbaum A307

Current in vitro models at assessing drug-drug interaction (DDI) liability of a new chemical entity (NCE), though the gold standard in drug discovery, struggle with a high false-positive rate (~30%). The ability to interrogate a validated transporter biomarker, in early clinical studies, such as first-in-human (FIH) studies, would help assess DDI liability, complement the existing agency DDI risk assessment approaches, help confirm or dispute in vitro data and potentially reduce the number of dedicated DDI clinical evaluations. This could result in earlier discharging of DDI risk and lead to significant resource and time savings.

Endogenous biomarkers of CYP and transporter activity have emerged recently as a growing area of interest for biomarker research and may provide insights into the potential for clinical DDIs without the need to conduct a specific clinical trail with a probe substrate. In addition to the traditional CYP enzymes considered. Transporters include OATP1B1/1B3, OCT1, OAT2, NTCP, OCT2, MATE1 and MATE2K. Recently, publications have explored coproporphyrin isomers (CP-I and CP-III), bile acids (BAs), and N1-methylnicotinamide as potential OATP1B1/3 and renal OCT2 transporter biomarkers, respectively.

Additionally, thiamine and 6β -hydroxycortisol have been proposed as possible endogenous probes for hepatic OCT1 and renal OAT3, respectively. Creatinine has been proposed as a biomarker for OCT2, MATE1 and MATE2K inhibition.

While using traditional triple quadrupole based assays for biomarker quantitation has been well demonstrated for a number of these biomarkers. Using UHPLC-HRMS to interrogate potential biomarkers has several advantages: targeted quantitation, multiplexing of biomarkers, and also post-acquisition data mining of novel biomarkers.

07 The NIH and NSF Review and Funding Process Presiding: Salvatore Sechi, Kelsey Cook, Douglas Sheeley A309

Many ASMS members and conference participants are supported by the National Institutes of Health or the National Science Foundation. During this workshop the general funding and review process of grant applications/proposals will be presented. Issues like identifying the best contacts, writing an effective application/proposal, and responding to the reviewers' criticisms will be discussed. Speakers will explore these issues from the perspectives of the applicant, reviewer, and administrator, with some emphasis on new investigators and training opportunities. Tips on grant writing and insights into the review process will be presented. Substantial time will be allotted for discussion and questions. NIH and NSF staff will also be available for individual discussions with investigators during scheduled "Office Hours" in the poster exhibit hall.

08 Why You Should Submit Your Best Manuscripts to *JASMS*Presiding: Joe Loo, *JASMS* Editor-in-Chief A311

The Journal of the American Society for Mass Spectrometry (JASMS) was started in 1990, and it remains a premier science journal that covers all aspects of mass spectrometry, including fundamental subjects (e.g., properties of gas-phase ions, instrumentation design, etc) and applications of mass spectrometry in all fields (including chemistry, biology, physics, geology, environmental science, and life sciences). But the scientific publishing industry has undergone dramatic changes since 1990, and journals must keep pace with these changes in order to remain competitive. The Workshop will discuss the current "nuts and bolts" of the operation of JASMS, how manuscripts are handled, how the journal can grow to best serve the needs of the mass spectrometry scientific community and the members of ASMS, and why all members should consider submitting their best work to the Society's journal. Members from the JASMS Editorial Staff and the ASMS Publications Committee will spur lively discussions.

09 Metaproteomics for the Masses: Solutions, Opportunities and Challenges Presiding: Pratik Jagtap, Timothy Griffin, Robert Hettich A312

Metaproteomics, which characterizes the protein complement of a microbiome, enables researchers to understand the network and functional roles of the expressed microbial proteins in an ecosystem. thereby opening new avenues to characterize a variety of eukaryotic (human, plant) and environmental (soil, ocean) systems. As a complement to nucleic-acid based metagenomics (which provide detailed taxonomic information about microbial composition), metaproteomics research provides information about the metabolic activities and mechanism of microbial interactions with the host or environment. However, as compared to single-organism proteomics, mass spectrometry-based metaproteomics research poses additional challenges in data acquisition, database searching, and information extraction from these very complex peptide mixtures. Moreover, advanced bioinformatics approaches are needed to properly assign peptides to appropriate proteins and functional groups, as well as handle quantitative and multi-replicate analyses.

5:45 - 7:00 PM WEDNESDAY WORKSHOPS



There will be light refreshments in Building A foyers. All workshops are in Building A.

Metaproteomics research experts will discuss the current status of metaproteomics research, and highlight solutions and opportunities in the emerging field. In particular, advanced data acquisition strategies and database searching methods for peptide matching and metaprotein inference will be discussed. Experts will also participate in an informal discussion on multi-omic studies (metagenomics, metatranscriptomics, metaproteomics, and metabolomics) and quantitative and statistical analysis of multi-replicate samples.

10 Bridging the Gap between Computational Biology and Biology: Matchmaking Session Presiding: Ewy Mathe, Corey Broeckling A313

Nowadays, science is conducted collaboratively and most often requires experts in bench (e.g. chemistry, biology) and computational sciences. The goal of this workshop is to promote conversations between computational biology, chemistry, and biology experts and to help bridge the communication gap between the fields. While bench scientists seek help with analysis of their data, computational biologists are hungry for data to test out their solutions to data analysis problems. The aim of this workshop is thus discuss methods to bridge the language and culture gap between computational biology and biology. A secondary aim is to help researchers find each other in this large conference setting.

The session will be split into three parts: 1) brief introduction; 2) all participants share their work in 3-5 minutes; 2) informal, small group discussions (led by moderators), where tool developers/analysis experts interact with bench scientists/novice researchers to identify common interests and foster future conversations/collaborations. Topics will include broad aspects of metabolomics analysis, from data preprocessing, to statistical analyses and data interpretation.

11 Ambient Ionization: Where We Stand Now and Go from Here Presiding: Bindesh Shrestha, Sylwia Stopka A314

After the introduction of desorption electrospray ionization (DESI) in the mid-2000s, dozens of new ambient mass spectrometry ionization source have been introduced. These ambient ionization tools are capable of direct analysis of samples in real time, require minimal sample perturbation, and analysis is performed under native conditions. The workshop will begin with a brief introduction that addresses the current state of ambient ionization techniques, followed by brief short presentations on variations of ambient ionization methods. These brief presentations will have a maximum of four slides, consisting of introduction (slide 1), a unique or high impact application (slide 2), limitations of the technique (slide 3), and future direction and discussions (slide 4). The brief presentations will be followed by an open discussion forum focused on current challenges related to ambient ionization and its future direction. The workshop aims to encourage the participation and presentations of new investigators, postdocs, and graduate students with a balanced perspective from academia, national lab, and industry. One of the goals of the workshop will be to gather scientists interested in ambient ionization technology and start the discussion towards forming an ambient ionization interest group to address these new scientific challenges.

12 The Proteomics Standards Initiative and ProteomeXchange: Supporting Open Data Practises in Proteomics Presiding: Juan Antonio Vizcaino, Eric Deustch, Nuno Bandeira A315

The Proteomics Standards Initiative (PSI, http://www.psidev.info) and ProteomeXchange (http://www.proteomexchange.org) are two highly collaborative projects that are open to the contribution and ideas from everyone in the community. Since 2002, the mission of the PSI is the development and promotion of open data standards and the related software in the proteomics field. Additionally, the PSI is increasingly involved in the development of data standards for metabolomics. In a parallel effort, since 2012, the ProteomeXchange Consortium is

standardising the submission and dissemination of public proteomics data between the main proteomics data repositories, currently including the resources PRIDE, PeptideAtlas, MassIVE, jPOST, iProx and Panorama Public.

We will briefly showcase our most successful projects and highlight some of our ongoing activities, fostering discussion among participants about what future directions in both initiatives would most benefit the community. Please attend if you want your voice to be heard!

13 Fundamentals: Structural Elucidation of Proteins (Fundamentals Interest Group) Presiding: Christian Bleiholder, Alexandre Shvartsburg A316

Elucidation of molecular structure has been a key goal of mass spectrometry since its origins, normally achieved using tandem mass spectrometry (MS/MS) via collision-induced dissociation (CID). With the emergence of biological MS, that direction has extended to proteins and their assemblies. The major new challenges faced by structural MS in this context have been (1) critical higher-level structure (beyond primary) and connectivity of post-translational modifications not amenable to standard MS/MS approaches and (2) for primary structure, the molecular size and complexity resulting in numerous competing fragmentation pathways and thus spectral congestion. These issues have motivated the invention of novel structural tools - both expanding the MS/MS capability (via new activation and fragmentation techniques resulting in more informative products) and complementary methods based on ion mobility for overall morphology characterization and/or spectroscopy for more targeted local probes. The central path forward appears to be combining orthogonal approaches in hyphenated instrumentation to provide specific and redundant independent constraints, and developing and validating the structure-property computational models to extract the utmost information from available rich experimental data.

We will discuss the latest instrumental and methodological advances in the area across the leading approaches, highlighting their limitations that one must appreciate tor successful outcomes.

Topics and tentative speakers:

- Primary structure (bottom-up and top-down): Alan Marshall
- Primary structure (top-down and complex-top-down): Neil Kelleher
- Native MS (activation methods and H/D exchange)
- Theory and ion mobility: David Russell
- · Spectroscopy: Jennifer Brodbelt

14 Education: Teaching MS at the Undergraduate Level (Undergraduate Research in MS Interest Group) Presiding: Chrisi Hughey, Jay Forsythe A303

This workshop will provide an overview of resources available to current and/or future instructors who teach mass spectrometry at the undergraduate level. Attendees are encouraged to bring and share mass spectrometry-related materials that they have developed for lecture and/or the laboratory. We will also discuss the successes and challenges of teaching mass spectrometry at the undergraduate level. The goal of the workshop is to build a community of instructors and an online repository of instructional resources through ASMS and/or the Analytical Sciences Digital Library (ASDL). If you have materials you would like to share, please email hugheyca@jmu.edu.

15 New Ion Manipulations Prior to FT-MS (FTMS Interest Group) Presiding: Matthew Renfrow, Lissa Anderson, A302

The efficiency of ion trapping and transferring prior to FT-MS detection has continued to improve and the sophistication of ion manipulations and separations prior to high resolution detection continue to increase.



5:45 - 7:00 PM WEDNESDAY WORKSHOPS AND THURSDAY MORNING ORAL SESSIONS

There will be light refreshments in Building A foyers. All workshops are in Building A.

This year's FT-MS workshop will focus on new ion manipulations prior to FT-MS and what new type of FT-MS-based analysis and experimentation these developments will allow. This includes, but is not limited to, proton transfer reactions, parallel ion parking, ion mobility separations, and other novel additions to the FT-MS field. Experts from academia and industry will be available to help answer questions. The goal is to give users a preview of what future directions ions be moving as the field of FT-MS continues to expand.

16 Cannabis and Hemp Testing Requirements: How to Leverage with Mass Spectrometry Presiding: Marc Engel, Markus Roggen, Kevin Smith A301

This workshop will discuss the challenges associated with testing cannabis and cannabis concentrate (edibles, extracts, tincture etc) samples: in addition. Mass Spectrometry techniques suitable for quantifying cannabis will be presented in detail to emphasize their merit for each chemistry group (pesticides, mycotoxins, heavy metals, terpenes etc). Industry thought leaders from the US and Canada will present their latest findings on sample preparation, instrumentation configuration, and data processing specifics to quantitate cannabis and cannabis extract samples in a high throughput environment. Group discussions will also include identifying mass spectrometry topics and research opportunities within cannabis & hemp science that can support this rapidly expanding scientific landscape.

17 Getting Started with R for Mass Spectrometry Data Analysis Presiding: Ryan Benz, Jeff Jones A305

This workshop, targeted at beginner and aspiring R users, will introduce the R programming language and the ways it can be used for mass spectrometry data analysis (and data analysis in general). The

workshop will start with a gentle introduction to R and the basics of using RStudio, followed by essential data manipulation and analysis strategies using base R and tidyverse packages. Finally, analysis examples utilizing various mass spectrometry specific R packages will be presented. The goal of this workshop is to help new R users get over some of the initial roadblocks beginners often face and to kickstart their efforts toward learning how to use R effectively for data analysis tasks. Bring your laptop to follow along with the examples. Preparatory material for the workshop will be provided at:

https://github.com/ZenBrayn/asms-2019-r-workshop

18. Career and Collaboration Opportunities in China Presiding: Jun Qu, Andy Tao A304

Recent economic development in China has created numerous job opportunities for postdoctoral fellows and graduate students with training in mass spectrometry. The overall objective of this workshop is to provide information to those individuals with interest in seeking academic or industrial positions in China. We plan to invite 6-7 mass spectrometrists from academia, pharmaceutical companies, and instrument vendors in China as panel members for this workshop. These individuals will share with the participating graduate students and postdocs about their experiences and perspectives in finding jobs, establishing an independent research program in universities, opportunities available to mass spectrometrists, and developing international collaborations in China. We believe that the workshop will benefit young and next-generation scientists in mass spectrometry by providing a unique perspective of job and research opportunities in China and assisting with their career development. The workshop will be mixed with panelist presentations and Q/A session with the participating students and postdocs.

THURSDAY MORNING ORAL SESSIONS

From 7:00 am Thursday **CORPORATE BREAKFAST SEMINARS CONVENTION CENTER ONLY**

See page 16 for detailed schedule. Reservation or RSVP required.

8:30 - 10:30 am Thursday **INFORMATICS: METABOLOMICS**

Session Chair: Caroline Johnson (Yale School of Public Health) Murphy Ballroom, Bldg B, Level 5

ThOA am 08:30 OpenSWATH Enables Automated Data **Processing for Data-Independent Acquisition** in Metabolomics; Oliver Alka1; Michael Witting2,3; Karin Kleigrewe⁴; Oliver Kohlbacher^{1, 5, 6, 7}; Hannes L. Röst⁸; ¹Applied Bioinformatics, Department of Computer Science, University of Tübingen, Tübingen, Germany; ²Helmholtz Zentrum München, Research Unit Analytical BioGeoChemistry (BCG), Neuherberg, Germany; 3School of Life Sciences Weihenstephan, Technical University of Munich, Freising, Germany; 4Bavarian Center for Biomolecular Mass Spectrometry (BayBioMS), Technical University of Munich, Freising, Afghanistan; ⁵Quantitative Biology Center, University of Tübingen, Tübingen, Germany; 6Biomolecular Interactions, Max Planck Institute for Developmental Biology, Tübingen, Germany; 7Institute for Translational Bioinformatics, University Hospital Tübingen, Tübingen, Germany; 8Donnelly Centre for Cellular and Biomolecular Research, University of Toronto, Toronto, ON

ThOA am 08:50 Development of a Unified Collision Cross Section Compendium for Compound Annotation and Chemical Class Prediction; Jaqueline A. Picache¹; Bailey S. Rose¹; Andrzej Balinski¹; Katrina L. Leaptrot¹; Stacy D. Sherrod¹; Jody C. May¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN

ThOA am 09:10 Lipid Annotator: A Rapid, Accurate, and User-Friendly Software for Comprehensive LC-HRMS/ MS Lipidomics; Jeremy Koelmel¹; Xiangdong Li²; Sarah Stow²; Mark Sartain²; Adithya Murali²; Robin H.J Kemperman¹; Richard A Yost¹; Timothy J. Garrett¹; Norton Kitagawa¹; ¹University of Florida, Gainesville, FL; ²Agilent Technologies, Santa Clara,

ThOA am 09:30

Extracting Molecular Knowledge from METASPACE, a Community Knowledge Base of Spatial Metabolomes; Theodore Alexandrov^{1,} ²; Katja Ovchinnikova¹; Andrew Palmer¹; Vitaly Kovalev1; Lachlan Stuart1; Artem Tarasov1; Renat Nigmetzianov¹; Dominik Fay¹; ¹Structural and Computational Biology Unit, European Molecular Biology Laboratory, Heidelberg, Germany; 2Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, La Jolla, CA

ThOA am 09:50

Improved Interpretation of Metabolomics Data Integrated with other Omics Data: Linear Modeling and Comprehensive Pathway Analysis Approaches; Jalal K. Siddiqui¹; Shunchao Wang¹; Rohith Vanam¹; Andrew Patt¹; Joseph McElroy¹; Ewy Mathe²; ¹The Ohio State University, Columbus, OH; ²Ohio State University Medical Center, Columbus, ОН

THURSDAY MORNING ORAL SESSIONS



ThOA am 10:10 Improving Annotation Propagation on Molecular Networks through Random Walks: Introducing ChemWalker; Ricardo Silva^{1, 2}; Pieter Dorrestein³;

¹University of California, San Diego, CA; ²NPPNS, Department of Physics and Chemistry, School of Pharmaceutical Sciences of Ribeirão Preto, University of São Paulo, Ribeirão Preto, Brazil;

³University of California San Diego, La Jolla, CA

8:30 - 10:30 am Thursday FUNDAMENTALS: ION SPECTROSCOPY Session Chair: Mary T. Rodgers (Wayne State University) B401-402

ThOB am 08:30 Integration of High-Resolution Mass
Spectrometry with Cryogenic Ion Vibrational
Spectroscopy; Evan H Perez¹; Fabian Menges¹;
Sean Edington¹; Chinh Duong¹; Nan Yang¹; Mark
Johnson¹; ¹Yale University, New Haven, CT

ThOB am 08:50 Comparing Ultrahigh-Resolution Ion-Mobility
Spectrometry and IR-IR Double Resonance
Spectroscopy for Isomer-Resolved Spectra of
Oligosaccharides; Robert Pellegrinelli¹; Stephan
Warnke¹; Ahmed Ben faleh¹; Yalovenko Natalia¹;
Thomas R. Rizzo¹; ¹Ecole Polytechnique Fédérale
de Lausanne, Lausanne, Switzerland

ThOB am 09:10 Two-Color IRMPD Applied on Cryogenically Cooled Peptides: Comparisons to Traditional IRMPD and IR-UV Double Resonance Techniques; Christopher P. Harrilal¹; Timothy S. Zwier¹; Scott A. Mcluckey¹; **Purdue University, West Lafayette, IN

ThOB am 09:30 Circular Dichroism Mass Spectrometry of
Biomolecular Ions; Steven Daly¹; Frédéric Rosu²;
Valérie Gabelica¹; ¹Université de Bordeaux, INSERM
U1212, CNRS UMR 5320, IECB, Pessac, France;
²Université de Bordeaux, CNRS UMS3033, IECB,
Pessac, France

ThOB am 09:50 Gas-Phase Fluorescence from Trapped Biomolecular Ions: Instrumentation and Photophysical Studies; Prince Tiwari¹; Jonas B Metternich¹; Martin F Czar¹; Renato Zenobi¹; ¹ETH Zurich. Switzerland

ThOB am 10:10 Structures of Hydrogen-Rich DNA
Tetranucleotide Cation Radicals toward
Achieving Atomic-Resolution by UV/Vis Action
Spectroscopy; Shu R. Huang¹; Yue Liu¹; Yang
Liu¹; Frantisek Turecek¹; ¹University of Washington,
Seattle, WA

8:30 - 10:30 am Thursday POST-TRANSLATIONAL MODIFICATIONS: QUALITATIVE & QUANTITATIVE ANALYSIS

Session Chair: Kristina Hakansson (University of Michigan) B405-407

ThOC am 08:30 Strategies for High Throughput MS Analysis of Acid-Labile Phosphorylation; Gemma Hardman¹; Simon Perkins¹; Philip Brownridge¹; Andrew Jones¹; Claire Eyers¹; ¹University of Liverpool, Liverpool, United Kingdom

ThOC am 08:50 Mass Spectrometry-Based Large-Scale and Precise Identification of Citrullinated Proteins from Complex Biological Samples; Yatao Shi¹; Zihui Li²; Xudong Shi³; Bin Wang⁴; Lingjun Li².⁴; ¹University of Wisconsin, Madison, WI; ²Department of Chemistry, University of Wisconsin, Madison, WI; ³Department of Surgery, School of Medicine and Public Health, University of Wisconsin, Madison, WI; ⁴School of Pharmacy, University of Wisconsin, Madison, WI

ThOC am 09:10 ProteomeTools: Exploiting the Largest Collection of Synthetic Peptides Carrying Biologically **Relevant Post-Translational Modifications for** Proteome Research; Daniel P Zolq1; Mathias Wilhelm¹; Siegfried Gessulat^{1, 2}; Tobias Schmidt¹; Michael Graber^{1, 3}; Jana Zecha¹; Johannes Zerweck⁴; Tobias Knaute⁴; Hans-Christian Ehrlich²; Stephan Aiche2; Bernard Delanghe5; Andreas Huhmer6; Karsten Schnatbaum⁴; Ulf Reimer⁴; Bernhard Kuster^{1, 7, 8}; ¹Technical University of Munich, Freising, Germany; ²SAP SE, Potsdam, Germany; ³Ludwig-Maximilians-University Munich, Munich, Germany; ⁴JPT Peptide Technologies GmbH, Berlin, Germany; ⁵Thermo Fisher Scientific, Bremen, Germany; ⁶Thermo Fisher Scientific, San Jose, CA: ⁷Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany; 8Center for Integrated Protein Science Munich, Freising, Germany

ThOC am 09:30 Critical Insight on Protein Oxidation Mapping by LC-MS/MS: Identification, Quantification, Artifacts, and Implications; Qian Dong¹; Yuxue Liang¹; Xinjian Yan¹; Stephen E. Stein¹; †N/IST, Gaithersburg, MD

ThOC am 09:50 Integration of Lysine Modification Changes and Bioenergetic Phenotypes in Mouse Models of Cardiac Mitochondrial Protein Hyperacylation;

Paul A. Grimsrud¹; Michael T. Davidson¹; Kelsey H. Fisher-Wellman²; James A. Draper¹; Ling Lai³; Matthew D. Hirschey¹; Timothy R. Koves¹; Daniel P. Kelly³; Deborah M. Muoio¹; ¹Duke University School of Medicine, Durham, NC; ²East Carolina University Brody School of Medicine, Greenville, NC; ³Perelman School of Medicine - University of Pennsylvania, Philadelphia, PA

ThOC am 10:10 Coupling Fluorescent-Activated Cell Sorting with LC-MRM-MS to Characterize Epi-Proteomic Signatures from Human Blood Cells; Jeannie M Camarillo¹; Suchitra Swaminathan¹; Nebiyu A Abshiru¹; Juliette A Morris¹; Madeline A Zoltek¹; Jacek W Sikora²; Paul M Thomas²; Neil L Kelleher²; ¹Northwestern University, Chicago, IL; ²Northwestern University, Evanston, IL

8:30 - 10:30 am Thursday DRUG DISCOVERY AND DEVELOPMENT: QUANTITATIVE ANALYSIS Session Chair: Christopher Yu (Genentech)

Session Chair: Christopher Yu (Genentech) B302-305

ThOD am 08:30 Utility of a Novel Acoustic Mist Ionization Front End in Early Drug Discovery: Delivery of a HTP Biochemical Screen; Arseniy M Belov¹; Carl A Machutta¹; Guofeng Zhang¹; Joseph Kozole¹; Jeffrey W Gross¹; Melanie V Leveridge¹; Luke Ghislain²; Sammy S Datwani²; Roland S Annan¹; ¹GlaxoSmithKline, Collegeville, PA; ²Labcyte Inc., San Jose. CA

ThOD am 08:50 Quantitative Interactomics as a Tool for Drug

Development; James Bruce¹; Juan D. Chavez¹;

Andrew Keller¹; Jared P. Mohr¹; Martin Mathay¹;

¹University of Washington, Genome Sciences,
Seattle, WA

ThOD am 09:10 Overcoming ADA Interference by Using a Hybrid LC/MS/MS Method to Quantify a Therapeutic Protein in Human Plasma; Jia Guo¹; Dylan Sorensen²; Chad Christianson³; Tara O'Brien³; Leonor Newquist¹; Kevin Kuang¹; Ben Badillo¹; Ryan Boyer¹; Stephen Zoog¹; Huiyu Zhou¹; ¹BioMarin Pharmaceutical Inc., Novato, CA; ²Amgen, South San Francisco; ³Alturas Analytics, Moscow, ID

THURSDAY MORNING ORAL SESSIONS

ThOD am 09:30	Quantification of Convoluted Antibody and
	Antibody-Drug-Conjugate Modifications at
	the Intact and Middle-Down Level via ETD
	Fragments and Isotopically-Labeled Standards;
	Joseph D Eschweiler ¹ ; Guillaume Tremintin ² ; Reika
	Campbell ¹ ; Julie L Heflin ¹ ; ¹ AbbVie Inc., North
	Chicago, IL; ² Bruker Scientific, San Jose, CA
ThOD am 09:50	Benchmarking of HR/AM Instruments for
	Monitoring and Accurately Quantifying
	Trace-Level Host Cell Proteins Impurities in
	Therapeutic Proteins; <u>Joanna Bons</u> ¹ ; Nicolas Pythoud ¹ ; Sarah Cianférani ¹ ; Christine Carapito ¹ ;
	¹ Laboratoire de Spectrométrie de Masse
	BioOrganique, Université de Strasbourg, CNRS,
	IPHC UMR 7178, Strasbourg, France
ThOD am 10:10	
	Associated Virus by Charge Detection Mass
	Spectrometry; Nicholas A. Lyktey ¹ ; Zachary C.
	Elmore ² ; Eric Walton ² ; Aravind Asokan ³ ; Martin F.
	Jarrold ¹ ; ¹ Indiana University, Bloomington, IN; ² Duke
	University, Durham, NC; 3Duke University School of
	Medicine, Durham, NC
	8:30 - 10:30 am Thursday
	CULAR AND MACROMOLECULAR COMPLEXES
Session C	hair: Stacy D. Sherrod (Vanderbilt University)
ThOE 00:20	B308-309
ThOE am 08:30	Using Supramolecular Protein-Polymer
	Complexes to Probe Surface-Accessible Protein Residues; Benqian Wei ¹ ; Selim Gerislioglu ² ;
	Jonathan P Williams ³ ; Chrys Wesdemiotis ¹ ; ¹ The
	University of Akron, Akron, OH; ² PPG, Allison Park,
	PA 15101; ³ Waters corporation, Wilmslow, United
	Kingdom
ThOE am 08:50	Data Integration and Mass Spectrometry for
	Solving Structures of Intrinsically Disordered
	Regions of Nuclear Receptors; Mark Chance ¹ ;
	Janna Kiselar¹; Sichun Yang¹; ¹Case Western
	Reserve University, Cleveland, OH
ThOE am 09:10	Relative Stabilities of Lipoprotein Subpopulations
	Determined by Charge Detection Mass
	Spectrometry; Corinne A. Lutomski ¹ ; Tarick J.
	El-Baba¹; David E. Clemmer¹; Martin F. Jarrold¹; ¹Indiana University, Bloomington, IN
ThOE am 09:30	Probing Gas-Phase Unfolding Mechanism
THOE all 05.50	of Multimeric Protein Complexes by Native
	Top-Down Mass Spectrometry Using
	Electron Capture Dissociation and Ultraviolet
	Photodissociation; Mowei Zhou¹; Weijing Liu¹;
	Ljiljana Pasa-Tolic1; Jared B. Shaw1; 1Pacific
	Northwest National Laboratory, Richland, WA
ThOE am 09:50	Identification and Quantitation of Heterodimer
	Species in Co-Formulated Protein Drugs by
	LC-MS-Based Approaches; Tao Xing ¹ ; Yuetian
	Yan¹; Shunhai wang¹; Thomas J. Daly¹; Ning li¹;
ThOE 40:40	¹ Regeneron Pharmaceuticals Inc., Tarrytown, NY
ThOE am 10:10	Towards a Comprehensive Landscape of 60S
	Ribosomal Biogenesis; Carolin Sailer ¹ ; Jasmin Jansen ¹ ; Axel Reiser ² ; Jan Erzberger ³ ; Florian
	Stengel ¹ ; ¹ University of Konstanz, Konstanz,
	Germany; ² University of Stuttgart, Stuttgart,
	Germany; 3UT Southwestern Medical Center,
	Dallas TY

8:30 - 10:30 am Thursday CLINICAL ANALYSIS USING MS Session Chair: Yu Bai (Peking University) B312-314

Dallas, TX

ThOF am 08:30 Development of Robust Spatial Metabolomics
Tools for Cross-Site Analyses of Human
Biopsies for Kidney Precision Medicine;

Dusan Velickovic¹; Guanshi Zhang²; Arunima Bhattacharjee¹; Jennifer Kyle¹; Ryan Sontag¹; Ljiljana Pasa-Tolic¹; Theodore Alexandrov³; Kumar Sharma²; <u>Christopher Anderton</u>¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²University of Texas Health-San Antonio, San Antonio, TX; ³European Molecular Biology Laboratory, Heidelberg, Germany

ThOF am 08:50 Quantitation of Cannabinoids in Breath Samples
Using a Novel Derivatization LC-MS Assay with
Ultrahigh Sensitivity; Yiqi Ruben Luo¹; Cassandra
Yun¹; Kara L Lynch¹; ¹University of California, San
Francisco, CA

ThOF am 09:10 Development of Automated, Multiplexed PI3K p110α, PTEN, and AKT 1+2 Assays for Tumor-Tissue Samples Using Immuno-MALDI Mass Spectrometry (iMALDI); Bjorn Frohlich1; Robert Popp¹; Rene Zahedi²; Andre LeBlanc²; Yassene Mohammed^{1, 3}; Adriana Aguilar-Mahecha⁴; Oliver Poetz⁵; Mark Basik⁶; Gerald Batist⁶; Christoph H. Borchers^{1, 2, 6, 7}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 2Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 3Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden, Netherlands; ⁴Segal Cancer Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, Montreal, QC; 5NMI Natural and Medical Sciences Institute at the University of Tuebingen, Tuebingen, Germany; ⁶Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC; ⁷Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC

ThOF am 09:30 Paper Spray Ionization-Mass Spectrometry (PSI-MS) for the Simultaneous Quantification of Five Tri-azole Anti-fungal Agents from Plasma Samples; Lindsey M Kirkpatrick^{1, 2}; Christine L Skaggs³; Greta J Ren³; Nicholas E Manicke⁴; ¹Indiana University School of Medicine, Pediatric Infectious Disease, Indianapolis, IN; ²James Whitcomb Riley Hospital for Children, Indianapolis, Indiana; ³Department of Chemistry and Chemical Biology, Indiana University-Purdue University Indianapolis, Indianapolis, IN; ⁴Department of Chemistry and Chemical Biology, Forensic and Investigative Sciences Program, Indiana University-Purdue University Indianapolis. IN

ThOF am 09:50 Molecular Analysis of Endometriosis to Aid in Surgical Resection Using the Laparoscopic MasSpec Pen; Clara Feider¹; Jialing Zhang¹; John Q. Lin¹; Marta Sans¹; Suzanne Ledet²; Katherine Sebastian²; Michael T. Breen³; Livia S. Eberlin¹; ¹The University of Texas, Austin, TX; ²Seton Medical Center, Austin, TX; ³Dell Medical School at The University of Texas, Austin, TX

ThOF am 10:10 Quality Control Considerations for Targeted MRM on Dried Blood Microsamples for Early Prediction of Cardiac Events; Kelly Njine Mouapi¹; Irene Van Den Broek¹; Mitra Mastali¹; Qin Fu¹; Vidya Venkatraman¹; Noel Bairey Merz²; Brennan Spiegel³; Jennifer Van Eyk¹.²; ¹Advanced Clinical Biosystems Research Institute, The Smidt Heart Institute, Cedars-Sinai Medical Center, Los Angeles, CA; ²Barbra Streisand Women's Heart Center, The Smidt Heart Institute, Cedars-Sinai Medical Center, Los Angeles, CA; ³Cedars Sinai Center for Outcomes Research and Education (CS-CORE), Cedars-Sinai Medical Center, Los Angeles, CA

THURSDAY MORNING ORAL SESSIONS



8:30 - 10:30 am Thursday
STABLE ISOTOPE LABELING IN MS: APPLICATIONS
Session Chair: Chengli Zu (Corteva Agriscience)
Auditorium, Bldg A

ThOG am 08:30 Probing Metabolic Pathways during Early
Embryonic Development Using Stable Isotope
Labeling and Single-Cell Mass Spectrometry;
Erika Portero¹; Aleena J Andrews¹; Peter Nemes¹;
¹University of Maryland, College Park, MD

ThOG am 08:50 A Boosting to Amplify Signal with Isobaric Labeling (BASIL) Strategy for Comprehensive **Quantitative Phosphoproteomic Characterization** of Small Populations of Cells; Chia-Feng Tsai1; Lian Yi1; Ercument Dirice2; Adam C. Swensen1; Jing Chen³; Marina A. Gritsenko¹; Rosalie K. Chu⁴; Paul D. Piehowski¹; Richard D. Smith^{1, 4}; Karin D. Rodland¹; Clayton E. Mathews³; Rohit N. Kulkarni²; Wei-Jun Qian¹; Tao Liu¹; ¹Biological Sciences Division, Pacific Northwest National Laboratory, Richland, WA; 2Section of Islet Cell Biology and Regenerative Medicine, Joslin Diabetes Center and Harvard Medical School, Boston, MA; 3Department of Pathology, Immunology, and Laboratory Medicine, University of Florida, Gainesville, FL; 4Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA

ThOG am 09:10 Quantitative Analysis of the Fetal Tissue
Translatome by Mass Spectrometry Reveals
Temporal and Tissue-Specific Regulatory
Networks in utero; Josue Baeza¹; Coons E
Barbara²; William Peranteau²; Benjamin A. Garcia¹;
¹University of Pennsylvania, Philadelphia, PA;
²Children's Hospital of Philadelphia, Philadelphia, PA

ThOG am 09:30 Spatial Isotope Tracer Metabolomics to Study
13C Labeled Metabolite Distribution in 3D
Tumor Spheroid Cell Culture; Prasad Phapale¹;
Mariia Naumenko¹.²; Karin Mitosch¹.³; Theodore
Alexandrov¹.².⁴; ¹EMBL, Heidelberg, Heidelberg,
Germany; ²Metabolomics Core Facility, European
Molecular Biology Laboratory, Heidelberg, Germany,
Heidelberg, Germany; ³Genome Biology Unit,
European Molecular Biology Laboratory, Heidelberg,
Germany, Heidelberg, Germany; ⁴UCSD, San Diego,

ThOG am 09:50 DIA and DDA MS for Profiling the Cancer Borealis Neuropeptidome and Peptidomic Changes Resulting from Food Intake; Kellen DeLaney¹; Lingjun Li¹; ¹University of Wisconsin, Madison. WI

ThOG am 10:10 Determining the Metabolic Fate of Monosaccharides in the Glycocalyx through Stable Isotope Labeling; Maurice Wong¹; Gege Xu¹; Mariana Barboza¹; Carlito Lebrilla¹; ¹University of California, Davis, CA

8:30 - 10:30 am Thursday
EXPOSOMICS, TOXICOLOGY, AND HUMAN HEALTH
Session Chair: Jon R. Sobus (US EPA)
A411-412

ThOH am 08:30 Wastewater Impacts on Drinking Water: Hospital and Energy-Related Wastes and the Formation of Higher-Toxicity Disinfection By-Products;

Hannah Liberatore¹; Danielle C. Westerman¹;
Caroline O. Granger¹; Amy A. Cuthbertson¹; Joshua M. Allen¹; Michael J Plewa²; Elizabeth D Wagner²;
Kelly D Good³; Amy McKenna⁴; Chad R. Weisbrod⁴;
Jerry A. Zweigenbaum⁵; Jeanne M. VanBriesen³;
Susan D. Richardson¹; ¹University of South Carolina, Columbia, SC; ²University of Illinois Urbana-

Champaign, Urbana, IL; ³Carnegie Mellon University, Pittsburgh, PA; ⁴National High Magnetic Field Laboratory, Tallahassee, FL; ⁵Agilent Technologies, Inc., Wilmington, DE

ThOH am 08:50 In vitro Hepatic Clearance of Per- and Polyfluoroalkyl Substances (PFAS); David M.
Crizer¹; Tahja M. Harris¹; Paul E. Dunlap¹; Julie R.
Rice¹; Stephen S. Ferguson¹; Michael J. DeVito¹;
¹National Toxicology Program/NIEHS/NIH, Research
Triangle Park, NC

ThOH am 09:10 HRMS-Based Metabolomics Strategy for Comprehensively Screening Biomarkers of Phthalate Exposure and their Applications; Jingfang Hsu¹; Chia-Lung Shih²; Pao-Chi Liao²; ¹National Health Research Institutes, Miaoli County, Taiwan; ²National Cheng Kung University, Tainan, Taiwan

ThOH am 09:30 An Algorithm (wSIM-CITY) for Gas Phase Fractionated (GPF) MS/MS2 Data Independent Acquisition (DIA) and Application to Neutral Loss DNA Adductomics.; Scott J Walmsley^{1, 2}; Jinshu Guo^{1, 3}; Peter W. Villalta¹; Robert Turesky^{1, 3}; Jinhua Wang^{1, 2}; ¹Masonic Cancer Center, University of Minnesota, Minneapolis, MN; ²Institute for Health Informatics, University of Minnesota, Minneapolis, MN; ³Dept. of Medicinal Chemistry, College of Pharmacy, Minneapolis, MN

ThOH am 09:50 Signatures of Ambient Exposure to Benzene and Other Air Pollutants in the Human Serum Albumin Cys34 Adductome; Joshua W Smith¹; Robert N O'Meally¹; Thomas W Kensler¹.²; Robert N Cole¹; John D Groopman¹; ¹Johns Hopkins University, Baltimore, MD; ²Fred Hutchinson Cancer Research Center, Seattle, WA

ThOH am 10:10 Multi-omics Investigation Reveals Benzalkonium Chloride Disinfectants Alter Sterol and Lipid Homeostasis in the Mouse Neonatal Brain; Josi M. Herron¹; Kelly M. Hines¹; Hideaki Tomita¹; Ryan P. Seguin¹; Julia Y. Cui¹; Libin Xu¹; ¹University of Washington, Seattle, WA

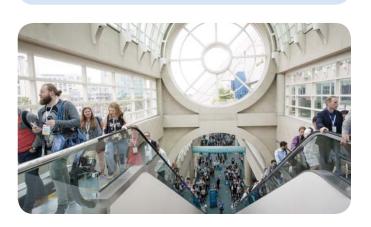
10:30 am - 2:30 pm Thursday

THURSDAY POSTER SESSION
Poster/Exhibit Hall ground level
Lunch concessions are open 11:00 am - 2:00 pm

Odd-number posters present: 10:30 am - 11:30 am <u>PLUS</u> 12:30 - 2:30 pm

Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Poster Pick-Me-Up Snacks served at 1:30 pm





2:30 - 4:30 pm Thursday INFORMATICS: PEPTIDE AND PROTEIN IDENTIFICATION, PROTEOMICS

Session Chair: Anna Ivanova (Emory University) Murphy Ballroom, Bldg B, Level 5

ThOA pm 02:30 From Single Software Tools to Fully
Reproducible Workflows for the Analysis of
Protein Mass Spectrometry Data; Johannes
Griss¹.²; Goran Vinterhalter³; lustinian Olaru⁴;
Veit Schwämmle⁴; ¹Medical University of Vienna,
Vienna, Austria; ²EMBL-EBI, Hinxton, United
Kingdom; ³University of Belgrade, Belgrade, Serbia;
⁴University of Southern Denmark, Odense, Denmark

ThOA pm 02:50 A Novel Computational Approach for Simultaneous Identification of Protein-RNA and Protein-DNA Interactions from XL-MS Data; Timo Sachsenberg1; Alexandra Stützer2; Aleksandar Chernev²; Eugen Netz³; Tjeerd Dijkstra⁴; Henning Urlaub^{2, 5}; Oliver Kohlbacher^{1, 6, 7, 8}; ¹University of Tübingen, Tübingen, Germany; 2Max Planck Institute for biophysical chemistry. Göttingen. Germany; ³Max Planck Institute for Developmental Biology, Tuebingen, Germany; 4Max Planck Institute for Developmental Biology, Tuebingen, Germany; ⁵University Medical Center Goettingen (UMG), Goettingen, Germany; 6Biomolecular Interactions, Max Planck Institute for Developmental Biology, Tübingen, Germany; ⁷Institute for Translational Bioinformatics, University Hospital Tübingen. Tübingen, Germany; 8Quantitative Biology Center, University of Tübingen, Tübingen, Germany

ThOA pm 03:10 PRISM: Pattern-Based, Assumption-Free Protein Identification; Joris Van Houtven^{1, 2, 3}; Kurt Boonen^{1, 3}; Geert Baggerman^{1, 3}; Kris Laukens^{4, 5}; Jef Hooyberghs^{1, 6}; Dirk Valkenborg^{2, 3}; *Iemish Institute for Technological Research (VITO), Mol, Belgium; *2University of Hasselt, Diepenbeek, Belgium; *3Centre for Proteomics, University of Antwerp, Antwerp, Belgium; *biomedical informatics network Antwerpen (biomina), University of Antwerp, Antwerp, Belgium; *Dept. Mathematics & Computer Science, University of Antwerp, Antwerp, Belgium; *Theoretical Physics, Hasselt University, Diepenbeek, Belgium

ThOA pm 03:30 A "Divide and Conquer" Approach to Address Peptide-Spectrum Matching Challenges of Large Sequence Databases in Next-Generation Proteomic Applications; Praveen Kumar^{1, 2}; James E. Johnson³; Thomas McGowan³; Subina Mehta²; Ray Sajulga²; Shane Hubler⁴; Caleb Easterly²; Matthew C. Chambers⁵; Pratik Jagtap²; Timothy J. Griffin²; 'Bioinformatics and Computational Biology, University of Minnesota-Rochester, Rochester, MN; ¹Biochemistry, Molecular Biology, and Biophysics, University of Minnesota, Minneapolis, MN; ¹Minnesota Supercomputing Institute, University of Minnesota, Minneapolis, MN; ⁴Rhapsody Data, LLC., Madison, WI; ⁵Vanderbilt University, Nashville, TN

ThOA pm 03:50 Proteomic Data Commons (PDC): A Node in the NCI Cancer Research Data Commons; Paul A Rudnick¹; Ratna R. Thangudu²; Michael Holck²; Deepak Singhal²; Karen A. Ketchum²; Nathan J. Edwards³; Christopher R. Kinsinger⁴; Izumi Hinkson⁵; Lei Ma²; Maya Zuhl²; Yi Xin²; Padmini Chilappagari²; Anand Basu²; Michael J MacCoss®; ¹Spectragen Informatics, Bainbridge Island, WA; ²ESAC, Inc., Rockville, MD; ³Georgetown University Medical Center, Washington, DC; ⁴National Cancer Institute, Bethesda, MD; ⁵National Cancer

Washington, Genome Sciences, Seattle, WA
ThOA pm 04:10

Detection of Cancer Mutations in Proteomics
Data with a Cloud Search Engine; Conor
Jenkins¹; Megan Rigby²; Amol Prakash³; Benjamin
Orsburn²; ¹Hood College Bioinformatics Program,
Frederick, MD; ²National Cancer Institute @

Institute @ Frederick, Frederick, MD; 6University of

Frederick, Frederick, MD; 3Optys Tech Corporation,

2:30 - 4:30 pm Thursday
MICROORGANISMS AND THE MICROBIOME
Session Chair: Neha Garg (Georgia Institute of Technology)
B401-402

Shrewsbury, MA

ThOB pm 02:30 Identification of Individual Bacteria in
Polymicrobial Samples via Membrane
Glycolipids; David R. Goodlett¹; Alison J. Scott¹;
Sung Hwan Yoon¹; So Young Ryu²; Dusan
Velickovic³; Rene Boiteau⁴; Robert K. Ernst¹; Ljiljana
Pasa-Tolic³; ¹University of Maryland, Baltimore, MD;
²University of Nevada, Reno, NV; ³Pacific Northwest
National Laboratory, Richland, WA; ⁴Oregon State
University, Crovalis, OR

ThOB pm 02:50 Approaches to Accurate Chemical Constitutional Analysis in Untargeted Microbial Natural Products Research; Roger Linington; Simon Fraser University, Burnaby, BC

ThOB pm 03:10 Evaluation of a Biofilm Inhibitor Using Imaging
Mass Spectrometry Raises Questions about
Potential Therapeutic Strategies; Alanna R
Condren¹; Lisa Kahl²; Manuel Banzhaf³; Lars
Dietrich²; Laura Sanchez¹; ¹University of Illinois,
Chicago, IL; ²Columbia University, New York, NY;
³University of Birmingham, Birmingham, United
Kingdom

ThOB pm 03:30 Metabolomics Activity Screening Identifies Immunomodulating Host-Microbiome Metabolites in Inflammatory Bowel Disease;

J. Rafael Montenegro-Burke¹; Bernard P. C. Kok¹;
Carlos Guijas¹; Enrique Saez¹; Dennis Wolan¹; Gary Siuzdak¹; ¹The Scripps Research Institute, La Jolla

ThOB pm 03:50 LC-MS/MS-based Metabolomics Reveals
Inhibition Effect of Gut Microbiota-Derived
Metabolites on Lipid Accumulation in
Hepatocytes; Qiang Lyu¹; Hsin-Bei Tsou¹; HsinYuan Chang¹; Yin-Hsuan Huang¹; Hsiao-Li Chuang²;
Cheng-Chih Hsu¹; ¹National Taiwan University,
Taipei, Taiwan; ²National Laboratory Animal Center,
Taipei, Taiwan

ThOB pm 04:10 Discovering Small Molecule Products of
Biosynthetic Gene Clusters by Integrating
Metagenomics and Mass Spectrometry; Liu Cao¹;
Egor Shcherbin²; Hosein Mohimani¹; ¹Computational
Biology Department, School of Computer Science,
Carnegie Mellon University, Pittsburgh, PA;
¹National Research University Higher School of
Economics, St. Petersburg, Russia

2:30 - 4:30 pm Thursday
QUANTITATIVE PROTEOMICS IN SYSTEMS BIOLOGY
Session Chair: Susan E. Abbatiello (Northeastern University)
B405-407

ThOC pm 02:30 Profiling the HSP90 Clientele in EGFR Mutant Cancer Cells; Jason Liang¹; Trent Hinkle¹; Erik Verschueren¹; Shiva Malek²; Donald S. Kirkpatrick¹; ¹Department of Microchemistry, Proteomics and Lipidomics, Genentech Inc., South San Francisco, CA; ²Department of Discovery Oncology, Genentech Inc., South San Francisco, CA

THURSDAY AFTERNOON ORAL SESSIONS



ThOC pm 02:50 Investigating the Role of Histone H2A
Proteolysis during Stem Cell Differentiation and
Its Consequence in Nucleosome Stability; Mariel
Coradin¹; Kelly R. Karch¹; Simone Sidoli¹; Benjamin
A. Garcia¹; ¹University of Pennsylvania, Philadelphia,

ThOC pm 03:10 Quantitative Time-Course Profiling of Sorafenib-Treated Hepatocellular Carcinoma (HCC) Cells Through Phosphoproteome Analysis; Emily Werth¹; Presha Rajbhandari¹; Brent R Stockwell¹; Lewis M. Brown¹; ¹Columbia University, New York,

ThOC pm 03:30 A Versatile Lentiviral Delivery Toolkit for Proximity-dependent Biotinylation in Diverse Cell Types; Payman Samavarchi-Tehrani¹; Hala Abdouni¹; Reuben Samson¹; Cassandra Wong¹; Anne-Claude Gingras¹.²; ¹Lunenfeld-Tanenbaum Research Institute, Sinai Health System, Toronto, ON; ²University of Toronto, Toronto, ON

ThOC pm 03:50 Proteomic Analysis of Sorted Mouse Embryonic Stem Cells to Decipher Sub-populations; Molly P. Lowndes^{1, 2}; Joshua M. Brickman²; Michael L. Nielsen^{1; 1}Novo Nordisk Foundation Center for Protein Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; ²Novo Nordisk Foundation Center for Stem Cell Biology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

ThOC pm 04:10 Illuminating the Dark Kinome: Defining Kinase-Substrate Relationships Using Targeted Protein Degradation and Phosphoproteomics; Rufus Hards¹; Ian LaCroix¹; Arminja N Kettenbach¹; Andrew Holland²; Scott A. Gerber¹; ¹Geisel School of Medicine at Dartmouth, Lebanon, NH; ²Johns Hopkins, Baltimore, MD

2:30 - 4:30 pm Thursday COVALENT LABELING AND CHEMICAL CROSSLINKING Session Chair: Florian Stengel (University of Konstanz) B302-305

ThOD pm 02:30 PhoX - an IMAC-enrichable Crosslinking
Reagent; Barbara A. Steigenberger^{1, 2}; Roland J.
Pieters³; Albert J.R. Heck^{1, 2}; Richard A. Scheltema^{1, 2}; ¹Biomolecular Mass Spectrometry and Proteomics,
Bijvoet Center for Biomolecular Research and
Utrecht Institute of Pharmaceutical Sciences, Utrecht
University, Utrecht, Netherlands; ²Netherlands
Proteomics Center, Utrecht, Netherlands;
³Department of Chemical Biology & Drug Discovery,
Utrecht University, Utrecht, Netherlands

ThOD pm 02:50 Developing Cross-linking Mass Spectrometry (XL-MS) to Delineate Protein Interaction Landscapes in Living Cells; Andrew Wheat¹; Clinton Yu¹; Xiaorong Wang¹; Lan Huang¹; ¹University of California, Irvine, CA

ThOD pm 03:10 Chemical Cross-Linking and Covalent Labelling
Provide Insights into the Protein Organisation
of Synaptic Vesicle Membranes; Sabine
Wittig¹; Marie Barth¹; Marcelo Ganzella²; Julia
Preobraschenski²; Susann Kostmann¹; Angel PerezLara²; Reinhard Jahn²; Carla Schmidt¹; ¹HALOmem,
Martin Luther University Halle-Wittenberg, Halle /
Saale, Germany; ²MPI for Biophysical Chemistry,
Department of Neurobiology, Göttingen, Germany

ThOD pm 03:30 Chemical Protein-RNA Cross-Linking Coupled with Mass Spectrometry – from Proteins to Cells;

Alexander Wulf¹; Luisa M Welp¹; Seychelle Vos¹;

Sven Johansson²; Timo Sachsenberg³; Ralf Ficner²;

Oliver Kohlbacher³; Patrick Cramer¹; Henning Urlaub^{1, 4}; ¹Max Planck Institute for biophysical chemistry, Göttingen, Germany; ²University of Goettingen, Institute for Microbiology and Genetics, Goettingen, Germany; ³University of Tubingen, Tubingen, Germany; ⁴University Medical Center Goettingen (UMG), Goettingen, Germany

ThOD pm 03:50 Structure Determination of Neurodegenerative **Disease-Related Misfolded Protein** Aggregregates by Short-Distance Crosslinking **Constraint-Guided Discrete Molecular** Dynamics (CL-DMD); Evgeniy V. Petrotchenko¹; Jason J. Serpa²; Konstantin I. Popov³; Nikolay V. Dokholyan⁴; Christoph H. Borchers^{1, 2, 5, 6}; ¹Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 2University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 3Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC; ⁴Departments of Pharmacology, and Biochemistry and Molecular Biology, Pennsylvania State College of Medicine, Hershey, PA; 5Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 6Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC

ThOD pm 04:10 Multidimensional Cross-Linking with a Tetra-Reactive Cross-Linker; <u>Jared P. Mohr</u>; Juan D. Chavez'; James E. Bruce'; 'University of Washington, Genome Sciences, Seattle, WA

2:30 - 4:30 pm Thursday PLANT "OMICS"

Session Chair: Michael R. Sussman (University of Wisconsin) B308-309

ThOE pm 02:30 Elucidation of Molecular Switches Regulating
Plant C3to CAM Transition Using Integrative
Transcriptomics, Proteomics and Metabolomics;
Sixue Chen; University of Florida, Gainesville, FL

ThOE pm 02:50 Digging Deep into the Transcriptome, Proteome and Phosphoproteome of Arabidopsis thaliana;
Julia Mergner¹; Martin Heinrich Frejno¹; Markus List¹; Maxim Messerer²; Daniel Lang²; Stefan Altmann²; Philipp Cyprys³; Toby Mathieson⁴; Klaus Mayer²; Pascal Falter-Braun²; Stefanie Sprunck³; Jan Baumbach¹; Claus Schwechheimer¹; Bernhard Kuster¹; ¹Technical University of Munich, Freising, Germany; ²Helmholtz Center Munich, Neuherberg, Germany; ³University of Regensburg, Regensburg, Germany; ⁴Cellzome, a GSK company, Heidelberg,

ThOE pm 03:10 Automated High-throughput Metabolic Analysis of Single Cells by Fiber Based Laser Ablation Electrospray Ionization Mass Spectrometry;

Sylwia Stopka¹; Ellen A Wood¹; Rikkita Khattar¹;
Beverly J Agtuca²; Christopher R Anderton³; David W Koppenaal³; Ljiljana Pasa-Tolic³; Gary Stacey²;
Akos Vertes¹; ¹The George Washington University, Washington, DC; ²University of Missouri, Columbia, MO; ³Pacific Northwest National Laboratory, Richland. WA

ThOE pm 03:30 Establishing and Applying Mass Spectrometric Tools to Measure Levels and 13C-Labeling Kinetics of Metabolites in Camelina sativa Leaves and Seeds; Yuan Xu¹; Bibin Paulose¹; Hesham Abdullah¹; Danny Schnell¹; Yair Shachar-Hill¹; ¹Michigan State University. East Lansing, MI

THURSDAY AFTERNOON ORAL SESSIONS

ThOE pm 03:50	Comparing Proteomic Changes during PAMP Responses and MKP1-Requiring Genetic		Science and Technology, Moscow Region, Russian Federation
	Pathways; Laura A Greeley1; Gabrielle Rupp1; Scott	ThOG pm 02:50	A Tandem Multi-Quadrupole Ion Trap (MultiQ-
	C Peck ¹ ; ¹ University of Missouri, Columbia, MO	·	IT) Electrospray Interface for an Orbitrap Mass
ThOE pm 04:10	Novel Bioactive Cyclotide Scaffolds in Viola		Spectrometer; Andrew N. Krutchinsky ¹ ; Kelly R.
	inconspicua; Nicole C Parsley ¹ ; Patric W Sadecki ¹ ;		Molloy ¹ ; Brian T. Chait ¹ ; ¹ The Rockefeller University,
	Conrad J Hartmann ¹ ; Leslie M Hicks ¹ ; ¹ UNC Chapel		New York, NY
	Hill, Durham, NC	ThOG pm 03:10	Implementation of Ion-Ion Proton Transfer (IIPT)
		·	Reactions on a Modified Orbitrap Tribrid Mass
	2:30 - 4:30 pm Thursday		Spectrometer with Increased Ion-Ion Reaction
	ION MOBILITY: STRUCTURE		Capacity; Christopher Mullen ¹ ; John E.P. Syka ¹ ;
Session	Chair: Francisco Fernandez Lima (Florida		Lee Early ¹ ; Romain Huguet ¹ ; Jeffrey Shabanowitz ² ;
	International University)		Donald F. Hunt ² ; ¹ Thermo Fisher Scientific, San
	B312-314		Jose, CA; ² University of Virginia, Charlottesville, VA
ThOF pm 02:30	Mechanism of Amyloid Assembly: Prion-	ThOG pm 03:30	Mirror Switching for Ion Isolation in a Fourier
	like Cross Talk betweeen Disease Agents		Transform Electrostatic Ion Trap Mass
	of Alzheimer's, Amyotrophic Lateral		Spectrometer; Joshua Johnson ¹ ; Gregory S.
	Sclerosis(ALS) and Type 2 Diabetes; Shruti Arya1;		Eakins ¹ ; Scott A McLuckey ¹ ; ¹ Purdue University,
	Veronica Laos ¹ ; Michael T. Bowers ¹ ; ¹ University of		West Lafayette, IN
	California, Santa Barbara, CA	ThOG pm 03:50	Digital Mass Filter Analysis Provides New Ways
ThOF pm 02:50	Ion Mobility Spectrometry-Mass Spectrometry		of Enhancing Sensitivity and Resolution; Bojana
	Reveals Subtle Differences in Structure and		Opacic ¹ ; Adam P. Huntley ¹ ; Peter T. A. Reilly ¹ ;
	Stability in Wild-Type Versus Point-Mutated		¹ Washington State University, Pullman, WA
	Variants of Chymotrypsin Inhibitor 2; Shannon	ThOG pm 04:10	Nanomechanical Resonators based Charge
	A. Raab ¹ ; Tarick J. El-Baba ¹ ; Daniel W. Woodall ¹ ;		Independent MS of Synthetic and Natural
	Wen Liu ² ; Yang Liu ² ; Arthur Laganowsky ² ; David H.		Nanoparticles in the 10-100 MDa Mass Range;
	Russell ² ; David E. Clemmer ¹ ; ¹ Indiana University,		Christophe Masselon ¹ ; Shawn Fostner ² ; Sergio
	Bloomington, IN; ² Texas A&M University, College		Dominguez-Medina ¹ ; Martial Defoort ² ; Emeline
	Station, TX		Verhnes ³ ; Szu-Hsueh Lai ¹ ; Bogdan Vysotskyi ² ;
ThOF pm 03:10			Kavya Clement ¹ ; Thomas Alava ² ; Mohammad Abdul
	IMS-MS Analysis to Investigate the Stability		Halim ¹ ; Pascale Boulanger ³ ; Sebastien Hentz ² ;
	Effects of Ligand Interactions in Nucleic Acid		¹ Univ. Grenoble Alpes, CEA, Inserm, BIG-BGE,
	Complexes; Rebecca J. D'Esposito ^{1, 2} ; Daniele		38000 Grenoble, France; ² Univ. Grenoble Alpes,
	Fabris ^{1, 2} ; ¹ University at Albany, Albany, NY; ² The		CEA, LETI, 38000 Grenoble, France; 3Univ Paris
	RNA Institute, University at Albany, Albany, NY		Sud, Univ. Paris Saclay, CEA, CNRS, I2BC, 91198
ThOF pm 03:30	ESI/ESI Ion/Ion Reactions in the Traveling Wave		Gif sur Yvette, France
	Trap of an Ion Mobility/Mass Spectrometer for		
	Gas-Phase Structure and Sequencing; Veronica		2:30 - 4:30 pm Thursday
	V. Carvalho ¹ ; Lyndon E. L. Keeling ¹ ; Rebecca L.		NTALS: ION ACTIVATION AND DISSOCIATION
	Cain ¹ ; Griffin W, Dowell ¹ ; Prabhnoor S. Nagry ¹ ;	Session	Chair: Edwin De Pauw (University of Liege)
	Lindsay J. Morrison ² ; Jeffery M. Brown ³ ; <u>Ian K.</u>	TI 011 05 55	A411-412
	Webb¹; ¹Indiana University Purdue University	1hOH pm 02:30	Proton Transfer Reactions and Parallel Ion
	Indianapolis, Indianapolis, IN; ² Waters Corporation,		Parking for Intact Protein Analysis on a 21 T
	Beverly, MA; ³ Waters Corporation, Wilmslow, United		FT-ICR Mass Spectrometer; Chad R. Weisbrod ¹ ;
TI 0.5	Kingdom		Lissa C. Anderson ¹ ; Jeffrey Shabanowitz ² ; Donald

- ThOF pm 03:50 Delineation of Structural Isomers by Isotopic Shifts in High-Field Ion Mobility Spectra: **Element-Specific Multidimensional Fingerprints**: Pratima Pathak1; Matthew A. Baird1; Gordon A. Anderson²; Alexandre A. Shvartsburg¹; ¹Wichita State University, Wichita, KS; 2GAA Custom Engineering, LLC, Benton City, WA
- ThOF pm 04:10 Towards Deciphering Tertiary Structures of **Protein Glycoforms Using Tandem Trapped** Ion Mobility Spectrometry-Mass Spectrometry; Mengqi Chai1; Tyler C Cropley1; Fanny C Liu1; Christian Bleiholder¹; ¹Florida State University. Tallahassee, FL

2:30 - 4:30 pm Thursday **INSTRUMENTATION: INNOVATIONS IN MASS ANALYZERS** Session Chair: Lissa Anderson (NHMFL-FSU) Auditorium, Bldg A

ThOG pm 02:30 Initial Experimental Characterization of the New Type of FT-Mass Spectrometer Based on Multielectrode Harmonized Kingdon Traps with Different Ion Sources; Eugene (evgeny) Nikolaev1; Oleg Kharybin¹; Gleb Vladimirov¹; ¹Skolkovo Institute of ThOH pm 03:10 Characterization of Native Proteins with **Activation Electron Transfer Dissociation (Al-**ETD); Jean M Lodge1; Dain Ryan Brademan2; Michael S Westphall³; Joshua J Coon^{2, 3, 4, 5}; ¹University of Wisconsin, Madison, WI; ²Department of Chemistry, University of Wisconsin, Madison, WI; ³Genome Center of Wisconsin, Madison, WI; ⁴Department of Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI; 5Morgridge Institute for Research, Madison, WI

F. Hunt²; Christopher L. Hendrickson³; ¹National

High Magnetic Field Laboratory, Tallahassee, FL;

High Magnetic Field Laboratory, Florida State

Combining Ion Mobility Mass Spectrometry with Photoactivation - Lighting the Way to

Conformer Analysis; Rachelle L Black1; Alina

Theisen²; Lennart Remakers¹; Lukasz Migas¹;

of Manchester, United Kingdom; 2University of Warwick, Coventry, United Kingdom; 3Waters

Corporation, Wilmslow, United Kingdom

Jeffery M Brown³; Bruno Bellina¹; Perdita Barran¹;

¹Manchester Institute of Biotechnology, University

University, Tallahassee, FL

ThOH pm 02:50

²University of Virginia, Charlottesville, VA; ³National

THURSDAY AFTERNOON ORAL SESSIONS

ATLANTA

ThOH pm 03:30 Understanding Ionization and Fragmentation within the Solution Cathode Glow Discharge Ionization Source via Thermometer Molecule Analysis; Courtney Walton¹; Brian T. Molnar¹; Judy Wu¹; Jacob T. Shelley¹; 'Rensselaer Polytechnic Institute, Troy, NY

ThOH pm 03:50 Structures, Binding Energetics, and Dissociation Dynamics of Imidazolium-Based Ionic Liquid Clusters; Mary T Rodgers¹; Harrison Roy²;

1 Wayne State University, Detroit, MI; 2 Wayne State University, Detroit, MI

ThOH pm 04:10 A Novel Radical Ion Dissociation Technique for MS Characterization of RNA; Giovanni
Calderisi¹; Kathrin Breuker¹; ¹University of Innsbruck, Innsbruck, Austria

4:45-5:30 pm Thursday
PLENARY LECTURE
Presiding: Susan Richardson (University of South Carolina)
Murphy Ballroom, Bldg B, Level Five



Chemistry of Food and Soft Drinks

Lilly D'Angelo
Global Food & Beverage Technology Associates

6:30-9:30 pm Thursday
CLOSING EVENT
Georgia Aquarium
Advance purchase ticket is required (\$40).
Tickets available for purchase through Monday
at 12pm noon only.





POSTER OVERVIEW



Poster Presentation Schedule

Odd-number posters present: 10:30 am - 11:30 am PLUS 12:30 - 2:30 pm **Even-number posters present:** 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

MONDAY POSTERS

Set up all Monday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Monday posters 7:00 - 8:00 pm

Biomarkers: Quantitative Analysis I......001-032 Biomolecular Structure Analysis: Chemical Crosslinking and Covalent Labeling I..............033-060 Clinical Analysis I......061-083 Drug Metabolism: Qualitative & High Drug and Metabolite Analysis: Novel Approaches for Dried Biological Samples099-103 Fundamentals: Ion Activation/Dissociation......230-255 Fundamentals: Ion Molecule, Ion/Ion, Ion/Electron Fundamentals: Metal Ion Cationization, Metal-Ligand Interactions, Catalysis276-282 Fundamentals: Molecular Modeling / Quantum Mechanical Calculations......283-291 H/D Exchange: Hardware, Software and Methodology.....292-309 High Mass Accuracy/High Performance MS: Applications and Instrumentation......310-331 Imaging MS: Computational Methods and Analysis332-342 Imaging MS: Instrumentation......343-359 Informatics: Workflow and Data Management......423-445 Instrumentation: New Developments in Ionization and Sampling I446-469 Instrumentation: New Developments in Mass Analyzers470-494 Lipids: Profile Analysis......495-529 Lipids: Targeted and Quantitative Analysis......530-558 Metabolomics: Identification of Unknown Phosphopeptides: Enrichment Methods......599-603 Protein Therapeutics: Quantitative Analysis I......640-659 Protein Therapeutics: Structural Characterization I......660-678 Proteomics: Top Down Analysis I769-787

TUESDAY POSTERS

Set up all Tuesday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Tuesday posters 7:00 - 8:00 pm

Antibodies & Antibody Drug Conjugates I	
Art, Archaeology & Paleontology	
Biomarkers: Discovery I	
Biomarkers: Quantitative Analysis II	
Clinical Analysis II	
Disease Biomarkers I	124-141
Energy: Hydrocarbon and Petrochemical	
Environmental: General II	
Environmental: Pharmaceuticals and Pesticides	
Food Safety II	
Forensics II	
Fundamentals: Ion Structure/Energetics	
Fundamentals: Ionization Mechanisms	
GC/MS: Instrumentation and Applications I	
H/D Exchange: Protein Structure/Function	
Imaging MS: Method Development I	
Imaging MS: Pharmaceutical Applications	
Imaging MS: Sample Preparation	
Imaging MS: Small Molecules Imaging MS: Software	
Informatics: Multiomics Integration	
Instrumentation: Mini/Portable/Fieldable MS	
Instrumentation: New Developments in Ion	
Detection	458-406
Ion Mobility: Applications I	
Ion Mobility: FAIMS/DMS	
Metabolomics: General I	
Metabolomics: Untargeted Metabolite Profiling	
Phosphopeptides: Quantitative Analysis	
Protein Therapeutics: Quantitative Analysis II	
Protein Therapeutics: Structural Characterization II	
Proteins: PTMs I	
Proteomics: Infectious Diseases	
Proteomics: Intact Proteins	
Proteomics: New Approaches I	667-694
Proteomics: Quantitative II	695-717
Proteomics: Top Down Analysis II	
Small Molecules: Qualitative Analysis	
Systems Biology	757-780

POSTER OVERVIEW



Poster Presentation Schedule

Odd-number posters present: 10:30 am - 11:30 am PLUS 12:30 – 2:30 pm Even-number posters present: 10:30 am - 12:30 pm PLUS 1:30 – 2:30 pm

WEDNESDAY POSTERS

Set up all Wednesday posters 7:00 - 8:00 am

Odd-numbered posters present

10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Wednesday posters 7:00 - 8:00 pm

THURSDAY POSTERS

Set up all Thursday posters 7:00 - 8:00 am

Odd-numbered posters present

10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Thursday posters 2:30 - 3:00 pm

Ambient Ionization: Applications I	
Antibodies & Antibody Drug Conjugates II	
Biomarkers: Quantitative Analysis III	
Biomolecular Structure Analysis: Chemical	000-120
Crosslinking and Covalent Labeling II	127-153
Cannabis	
Carbohydrates I	
Clinical Analysis III	206-234
Drug Discovery/DMPK/ADME I	235-254
Food "omics" MS Characterization of Food	
and Nutritional Supplements	255-275
Food Safety III	276-303
Fundamentals: Photodissociation	304-306
GC/MS: Instrumentation and Applications II	307-329
Glycoproteins I	
Homeland Security	
Imaging MS: Disease Markers I	
Informatics: Algorithms and Statistical Advances II	
Informatics: Metabolomics	
Instrumentation: General	
Ion Mobility: Applications II	
LC/MS: Chromatography and Software I	
LC/MS: Sample Preparation I	
Lipids: General	
Metabolomics: Targeted and Quantitative Analysis	
Metabolomics: Untargeted Metabolite Profiling II	
Nucleic Acids and Oligonucleotides I	624-641
Peptides: PTM Identification	
Peptides: Targeted and Quantitative Analysis	676-703
Proteins: Complexes/Non-covalent Interactions I	704-720
Proteomics: Quantitative III	
Small Molecules: Quantitative Analysis	
Toxicology	770-789

Ambient Ionization: Applications II	
and Instrumentation	
Carbohydrates II	
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Drug Discovery/DMPK/ADME II	
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and Nutritional Supplements II	182-203
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Ion Mobility: Fundamentals	
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LC/MS: Sample Preparation II	
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MALDI: Applications	405-417
MALDI: Fundamentals and Instrumentation	
MALDI: Sample Preparation	
Metabolomics: Clinical Applications	121 110
Metabolomics: General II	
Metabolomics: Sample Preparation	
Metabolomics: Untargeted Metabolite	479-402
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Microorganisms: Identification and	403-312
Characterization	E12 E10
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Nanoscale and Microfluidic Separations and MS	
Natural Products	
Nucleic Acids and Oligonucleotides II	
Peptides: Fragmentation Mechanisms	
Proteins: Complexes/Non-covalent Interactions II	.618-635
Proteins: Conformation Analysis and	000 050
Structural Biology	.636-653
Proteins: General and Membrane	
Proteins: PTMs II	
Proteomics: New Approaches II	
Proteomics: Quantitative IV	
Small Molecules: Quantitative Analysis II	/50-777



Set up all Monday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present 10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Monday posters 7:00 - 8:00 pm

Biomarkers: Quantitative Analysis I	001-032
Biomolecular Structure Analysis:	
Chemical Crosslinking and Covalent Labeling I	033-060
Clinical Analysis I	061-083
Drug Metabolism: Qualitative & High Throughput	
Analysis	084-098
Drug and Metabolite Analysis: Novel Approaches for	
Dried Biological Samples	
Energy: Biofuels and Algae	
Environmental: Exposomics	
Environmental: General I	
Epigenetic Modifications	
Food Safety I	
Forensics I	
Fundamentals: Ion Activation/Dissociation	230-255
Fundamentals: Ion Molecule, Ion/Ion, Ion/Electron	
Interactions	
Fundamentals: Ion Spectroscopy	264-275
Fundamentals: Metal Ion Cationization, Metal-Ligand	
Interactions, Catalysis	276-282
Fundamentals: Molecular Modeling / Quantum	
Mechanical Calculations	
H/D Exchange: Hardware, Software and Methodology	
High Mass Accuracy/High Performance MS: Application	
and Instrumentation	
Imaging MS: Computational Methods and Analysis	
Imaging MS: Instrumentation	
Informatics: Algorithms and Statistical Advances I	
Informatics: Peptide ID and Quantification	
Informatics: Workflow and Data Management	423-445
Instrumentation: New Developments in Ionization	
and Sampling I	
Instrumentation: New Developments in Mass Analyzers	
Lipids: Profile Analysis	
Lipids: Targeted and Quantitative Analysis	
Metabolomics: Identification of Unknown Metabolites	
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Polymers	599-603 604-626 627-639
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Polymers	599-603 604-626 627-639 640-659 660-678 679-712
Polymers	599-603 604-626 627-639 640-659 660-678 679-712 713-736
Polymers	599-603 604-626 627-639 640-659 660-678 679-712 713-736

BIOMARKERS: QUANTITATIVE ANALYSIS I 001-032

- MP 001 Method Development and Validation of 20 Amino Acids in Human Plasma Utilizing UPLC-MS/MS Methodology;

 Mackenzie Bentley¹; Dawn Dufield¹; Marsha Luna¹;

 Kimberly Jackson¹; Brady Roberts¹; ¹KCAS Bioanalytical and Biomarker Services, Shawnee, KS
- MP 002 Determination of Vitamin A, 25-Hydroxyvitamin D2/D3 and Vitamin E in Human Serum by UPLC-MS/MS; Liang Sun¹; Changkun Li¹; Yueqi Li¹; Taohong Huang²; ¹Shimadzu (China) Co.,LTD. Beijing Branch, Beijing, China; ²Shimadzu (China) Co., LTD. Shanghai Branch, Shanghai, China
- MP 003 Bioanalytical Approaches to Quantify "Free", "Drugbound" and "Total" Interleukin-8 in Tissue Using Immuno-Capture Liquid Chromatography-Mass Spectrometry; Yue Zhao¹; Huidong Gu¹; Dmitry Ostanin¹; Kezi Unsal-Kacmaz¹; Katarzyna Urbanska¹; Jianing Zeng¹; Yan Zhang¹; Renuka Pillutla¹; 'Bristol-Myers Squibb Co., Princeton, NJ
- MP 004 Quality Assessment of Oocytes for *in vitro* Fertilization Using Target Metabolomics Approach; Ju Wang¹; Yan Ren²; Wei Zheng³; Liang Hu³; Siqi Liu²; ¹University of Chinese Academy of Sciences, ShenZhen, China; ²BGI-Shenzhen, Shenzhen, China; ³Reproductive and Genetic Hospital of Citic-Xiangya, Changsha, China
- MP 005 Development of a Reference Measurement Procedure for Intact PTH and Peptides for the Improved Diagnosis, Treatment, and Prevention of CKD-MBD; Candice Z Ulmer¹; Hubert W Vesper²; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²Centers for Disease Control and Prevention, Atlanta, GA
- MP 006 Novel Highly-Specific ID-UHPLC-MS/MS Method for the Measurement of Steroid Hormones and their Conjugates in Human Serum; Lumi Duke; Paul H Kim²; Julianne Cook Botelho³; Candice Ulmer⁴; Hubert W Vesper⁴; ¹CDC Atlanta, Atlanta, GA; ²Battelle Memorial Institute, Atlanta, GA; ³Centers for Disease Control and Prevention, Atlanta, GA; ⁴Centers for Disease Control and Prevention, Atlanta, GA
- MP 007 Systems-Wide Analysis of CD44 Knock-Down by In-Depth Quantitative Proteomics in Different Subtypes of Breast Cancer Cells; Hyeyoon Kim^{1, 2}; Jung Hun Lee¹; Joseph Injae Wang¹; Han Suk Ryu²; Dohyun Han¹; ¹Proteomics core facility, Biomedical Research Institute, Seoul National University Hospital, Seoul, South Korea; ²Department of Pathology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul. South Korea
- MP 008 In-Depth Determination of Single Amino Acid Variants in CD24+ Subpopulation of Pancreatic Cancer by nano LC-MS/MS; Jianhui Zhu¹; Zhijing Tan¹; Xinpei Yi²; Jie Zhang¹; David M. Lubman¹; ¹University of Michigan Medical Center, Ann Arbor, MI; ²Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China
- MP 009 Rapid Quantitative Analytical Method Development and Validation for Insulin-Like Growth Factor-1 Doping Test Using UPLC-Q-Exactive Orbitrap Mass Spectrometry; Changmin Sung¹; Minyoung Kim¹; Oh-seung Kwon¹; Hophil Min¹; ¹Korea Institute of Science and Technology, Seoul, South Korea
- MP 010 Fast nano LC Separations for High Throughput Body Fluid Analysis with a TIMS Equipped QTOF and 4D Feature Alignment; Thomas Kosinski¹; Scarlet Koch¹; Christian Meier-Credo¹; Christoph Gebhardt¹; Heiner Koch¹; ¹Bruker Daltonik GmbH, Bremen, Germany
- MP 011 Quantification of Human ACTH with 25 pg/mL LLOQ in Plasma by an LC-MS/MS Method; Baichen Zhang¹; Tian-Sheng Lu¹; Jinshui Chen¹; Guangchun Zhou¹; Elise



- Snider¹; Matthew Allen¹; Yong-Xi Li¹; ¹Medpace Bioanalytical Laboratories, Cincinnati, OH
- MP 012 Integrative Proteomics Links CSF Biomarkers to Pathological Networks in the Alzheimer's Disease Brain; Lenora Higginbotham¹; Lingyan Ping¹; Eric B. Dammer¹; Duc M. Duong¹; Maotian Zhou¹; Thomas S Wingo¹; Erik C.B. Johnson¹; James J. Lah¹; Allan I. Levey¹; Nicholas T. Seyfried¹; ¹Emory University, Atlanta, GA
- MP 013 Catch them Sleeping: Quick and Routine Quantification of Melatonin in Plasma with Ultivo LC/TQ; Mark Sartain¹; Aaron Boice¹; ¹Agilent Technologies, Santa Clara, CA
- MP 014 High-Sensitivity and High-Resolution Top-Down LC/MS/
 MS Analysis of Cardiac Troponin Proteoforms; Timothy
 N. Tiambeng¹; Yanlong Zhu¹; Yutong Jin¹; Ziqing Lin¹;
 Bifan Chen¹; Song Jin¹; Ying Ge¹; ¹University of Wisconsin
 Madison, Madison, WI
- MP 015 Absolute Quantitation of Non-Human Glycan (Neu5Gc) for Gastric Cancer Screening; Nari Seo^{1,2}; Myung Jin Oh^{1,2}; Jaekyoung Ko^{1,2}; Yoon Jin Choi³; Dong Ho Lee⁴; Hyun Joo An^{1,2}; ¹Chungnam national university, Daejeon, South Korea; ²Asia-Pacific Glycomics Reference Site, Daejeon, South Korea; ³Department of Gastroenterology, , Korea University Guro Hospital, Seoul, South Korea; ⁴Department of Internal Medicine, Seoul National University Bundang Hospital, Seongnam-si, South Korea
- MP 016 Analytical Method for Quantifying Long-Term Exposure to Acrylamide, Glycidamide, Ethylene Oxide and Acrylonitrile Using High Performance Liquid Chromatography-Tandem Mass Spectrometry; Liqun Wang¹; Carmencita Aurora Gostilean¹; Tasia Nabors¹; Chui Y. Tse¹; Hubert W. Vesper¹; ¹Centers for Disease Control and Prevention, Atlanta, Georgia
- MP 017 Development of a Multiplexed Quantitative Peptide Immunoaffinity LC-MS/MS Assay for the Detection of FFPE Protein Biomarkers; Carlos A Morales Betanzos¹; Pamela Whalen²; Nagappan Mathialagan³; Eric L Powell²; Mireia Fernandez Ocana¹; ¹Pfizer, Andover, MA; ²Pfizer WRD, La Jolla, California; ³Pfizer, Groton, CT
- MP 018 Optimization and Validation of an LC-MS/MS Method for Peripheral Serotonin as a Pharmacodynamic Biomarker of Treatment with Tryptophan Hydroxylase Inhibitors; Katelyn Reighard Crizer¹; François Viel²; François Samson Thibault²; Michelle Palacios¹; Stephen A. Wring¹; ¹Altavant Sciences, Durham, NC; ²Syneos Health Clinique, Quebec City, PQ
- MP 019 Development and Comparison of Two High Throughput LC-MS Methods for the Accurate Quantitation of IGF1 in Human Serum; Pegah Jalilli¹; Yue Lu¹; Judy Cao¹; Uma Sreenivasan²; Kevin Ray¹; ¹MilliporeSigma, St. Louis, MO; ²MilliporeSigma, Round Rock, TX
- MP 020 A Systematic Evaluation of Increasing Laser Shots to Enhance the Information Content of the MALDI Analysis of Biological Fluids; Senait G. Asmellash¹; Maxim Tsypin¹; Krista Meyer¹; Brandon Touchet¹; Heinrich Roder¹; ¹Biodesix, Boulder, CO
- MP 021 Reducing the Need for Surrogate Matrix or Surrogate Analyte in Biomarker Assays; Guille Metzler¹; Richard King¹; Carmen Fernandez-Metzler¹; Susan Crathern¹;
 ¹PharmaCadence Analytical Services, Hatfield, PA
- MP 022 Mass Spectrometry-Based Quantification of Tau in Human Cerebrospinal Fluid Using a Complementary Tryptic Peptide Standard; Maotian Zhou1; Duc M Duong2; Jingting Dai2; James J. Lah2; Allan I. Levey2; Nicholas Seyfried2; 1Emory University, atlanta, GA; 2Emory University, Atlanta, GA
- MP 023 Quantification of Specific Organophosphorous Pesticides, Synthetic Pyrethroids, and 2,4-Dichlorophenoxyacetic Acid by LC-MS/MS; Dickson Wambua¹; Isuru Vidanage¹; William Roman¹; Antonia M.

- Calafat¹; Maria Ospina¹; ¹Centers for Disease Control and Prevention, Atlanta, Georgia
- MP 024 Development of a High-Throughput Top-Down-Proteomic Technology to Study the Associations between Apolipoprotein A-I Proteoforms and HDL Function; Henrique Dos Santos Seckler¹; John T Wilkins¹; Jonathan Scott Rink²; Luca Fornelli³; Richard D Leduc¹; Allan D. Sniderman⁴; Colby Shad Thaxton²; Donald Lloyd-Jones²; Philip D. Compton¹; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²Northwestern University, Chicago, IL; ³University of Oklahoma, Norman, OK; ⁴McGill Centre for Translational Research in Cancer, Segal Cancer Centre / Lady Davis Institute, Jewish General Hospital, Montreal, QC
- MP 025 An Improved IonStar Proteomics Strategy Outperforms Spectronaut in Reliable Quantitative Analysis of Large Biological Cohorts; Xue Wang¹; jun qu²; ¹University at Buffalo, Buffalo, NY; ²University at Buffalo, SUNY, Buffalo, NY
- MP 026 Use of Mass Spectrometry to Evaluate the Exposure to di-2-ethylhexyl terephthalate in the U.S. General Population from the NHANES 2015–2016; Manori Silva¹; Lee-Yang Wong¹; Ella Samandar¹; James L Preau¹; Lily T Jia¹; Antonia M. Calafat¹; ¹Centers for Disease Control and Prevention, Atlanta, Georgia
- MP 027 Quantification of Plasma Glucosylsphingosine in Patients with Gaucher Disease Using UPLC-MS/MS;

 Haoyue Zhang¹; Sarah P. Young¹.²; James Beasley¹;

 Patricia Mccaw¹; Deeksha Bali¹.²; Priya Kishnani²; Ashlee Stiles¹.²; ¹Biochemical Genetics Laboratory, Duke University Health System, Durham, NC; ²Division of Medical Genetics, Department of Pediatrics, Duke University School of Medicine, Durham, NC
- MP 028 Fully Automated Quantitative Assessment of Methylmalonic Acid on Blood Cards Using Direct Isotope Dilution Mass Spectrometry; Jeremiah C Jamrom¹; Logan Miller¹.²; Scott Faber¹; John Kern¹; Matt Pamuku³; Skip Kingston¹; Fred D. Foster⁴; ¹Duquesne University, Pittsburgh, PA; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ³Applied Isotope Technologies, Pittsburgh, PA; ⁴Gerstel, Inc., Linthicum, MD
- MP 029 **Advanced Mass Spectrometry Strategies for the** Discovery of New Biomarkers in Acute Myeloid Leukemia; Sibylle Pfammatter^{1, 2, 3}; Eric Bonneil^{1, 2}; Marie Eve Bordeleau^{1, 2}; Eric Audemard^{1, 2}; Louis Theret^{1, 2}; Isabel Boivin^{1, 2}; Sebastien Lemieux^{1, 2, 4}; Philippe P. Roux^{1, 2, 5}; Josée Hébert^{1, 2, 6, 7}; Guy Sauvageau^{1, 2, 6}; Pierre Thibault^{1,} ^{2,3}; ¹The Leucegene project at Institute for Research in Immunology and Cancer, Université de Montréal, Montréal, Québec; 2Institute for Research in Immunology and Cancer, Université de Montréal, Montréal, Québec; 3Department of Chemistry, Université de Montréal, Montréal, Québec; ⁴Department of Computer Science and Operations Research, Université de Montréal, Montréal, Québec; ⁵Department of Pathology and Cell Biology, Université de Montréal, Montréal, Québec; 6Department of Medicine, Faculty of Medicine, Université de Montréal, Montréal, Québec: 7Division of Hematology-Oncology and Leukemia Cell Bank of Quebec, Maisonneuve-Rosemont Hospital, Montréal, Québec
- MP 030 HPLC-MS/MS Method for Measuring 15 Urinary
 Biomarkers of Exposure to Organophosphate Flame
 Retardants, Plasticizers, and Pesticides; Nayana K.

 Jayatilaka¹; Paula Restrepo¹; Zachary Davis¹; Meghan
 Vidal¹; Antonia M. Calafat¹; Maria Ospina¹; ¹Centers for
 Disease Control and Prevention. Atlanta. GA
- MP 031 Selected Reaction Monitoring (SRM)-Based Rapid Measurement of GABA in Complex Clinical Samples;
 Sigmund J Haidacher^{1, 2}; Kathleen M Hoch^{1, 2}; Qinglong Wu^{1, 2}; Jasmohan S Bajaj³; Tor C Savidge^{1, 2}; Anthony M Haag^{1, 2};



- ¹Baylor College of Medicine, Houston, TX; ²Texas Children's Hospital, Houston, Texas; ³Virginia Commonwealth University, Richmond, VA
- MP 032 Short Chain Fatty-Acids Analysis in brain by GC/
 MS to Determine Effect of Bioactive Food in Mouse
 Model of Alzheimer's Disease; Eleazar Rojas Santiago¹;
 Tauqeerunnisa Syedaa²; Daniel Cuervo-Zanattaa²; Claudia
 Perez Cruz²; ¹Agilent Technologies, Mexico, Mexico;
 ²CINVESTAV, CDMX, Mexico

BIOMOLECULAR STRUCTURE ANALYSIS: CHEMICAL CROSSLINKING AND COVALENT LABELING I 033-060

- MP 033 Protein Tertiary Structure Prediction Based on Statistical Strategies to Incorporate Cross-Linking/
 Mass Spectrometry Constraints; Allan Jhonathan Ramos
 Ferrari¹; Guilherme Fahur Bottino¹; Leandro Martínez¹;
 Fabio Cesar Gozzo¹; ¹University of Campinas, Campinas,
 Brazil
- MP 034 Development of a Capillary LC Method for Co-Elution of Isomeric Peptide Oxidation Products; Niloofar
 Abolhasani Khaje¹; Joshua S Sharp¹; ¹University of Mississippi, University, MS
- MP 035 Development of a Fast Photochemical Oxidation of Proteins (FPOP)-Based Protein Folding Study; Luciano
 H Di Stefano¹; Danté T Johnson¹; Lisa M Jones¹; ¹University of Maryland Baltimore, Baltimore, MD
- MP 036 Characterization of the IL-7/IL-7Rα Binding Interface in Solution with Docking Guided by Mass Spectrometry-Based Cross-linking and Hydrogen Deuterium Exchange Data; Mengru Mira Zhang¹; Guodong Chen²; Brett R Beno²; Richard Y-C Huang²; Jagat Adhikari¹; Ekaterina Deyanova²; Jing Li²; Michael Gross¹; ¹Washington University, St. Louis, MO; ²Bristol-Myers Squibb, Princeton, N.I.
- MP 037 Alpha-Synuclein Oligomers Modelled Using **Crosslinking and Discrete Molecular Dynamics** Simulations and Validated with Multiple Structural Proteomics Techniques; Nicholas I Brodie^{1, 2}; Venkat R. Chirasani³; Andrew G. Cairns⁴; Fredrick Almqvist⁴; Evgeniy V. Petrotchenko5; Nikolay V. Dokholyan3; Christoph H. Borchers^{1, 2, 5, 6}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 2Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 3Departments of Pharmacology, and Biochemistry and Molecular Biology, Pennsylvania State College of Medicine, Hershey, PA; ⁴Department of Chemistry, Umeå University, Umeå, Sweden; ⁵Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- MP 038 Observing Gleevec's Drug Engagement in TNBC-AA and TNBC-EA Using In-Cell Fast Photochemical Oxidation of Proteins; Emily E Chea¹; Lisa M Jones²;

 ¹University of Maryland, Baltimore, Baltimore; ²University of Maryland Baltimore. Baltimore. MD
- MP 039 Normalizing Covalent Labeling Reactivity to Obtain Better Constraints for Computational Protein Structure Prediction; Xiao Pan¹; Richard W. Vachet¹; ¹University of Massachusetts, Amherst, MA
- MP 040 MaXLinker: An Innovative "MS3-centric" Proteome-Wide Cross-Link Search Engine with High Sensitivity and Specificity; Kumar Yugandhar^{1,2}; Ting-Yi Wang^{1,2}; Alden King-Yung Leung^{1,2}; Michael Charles Lanz^{2,3}; levgen Motorykin⁴; Jin Liang^{1,2}; Elnur Elyar Shayhidin^{1,2}; Marcus Bustamante Smolka^{2,3}; Sheng Zhang⁴; Haiyuan Yu^{1,2}; ¹Department of Biological Statistics and Computational Biology, Cornell University, Ithaca, NY; ²Weill Institute for

- Cell and Molecular Biology, Cornell University, Ithaca, NY; ³Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY; ⁴Mass Spectrometry and Proteomics Facility, Institute of Biotechnology, Cornell University, Ithaca, NY
- MP 041 High-Resolution Hydroxyl Radical Protein Footprinting Introduction and Workflow; John Schenkel, Jr. 1; Janna Kiselar^{1, 2}; Mark Chance^{1, 2}; **NeoProteomics, Inc., Cleveland, OH; **2Case Western Reserve University, Cleveland, OH
- MP 042 Design, Synthesis and Application of Novel Sulfoxide-Based, Click-Chemistry Enrichable Cleavable Cross-Linkers for Protein-Protein Interaction Analysis; Michael Stadlmeier¹; Leander Runtsch¹; Martin Wühr²; Thomas Carell¹; ¹LMU Munich, Munich, Germany; ²Princeton University, Princeton, NJ
- MP 043 The Interactome of Mitochondria in Baker's Yeast: A Snapshot Taken by Cross-Linking Mass Spectrometry; Andreas Linden^{1, 2}; Ralf Pflanz¹; Iwan Parfentev¹; Bettina Homberg²; Markus Deckers²; Peter Rehling²; Henning Urlaub^{2, 3}; **IMax Planck Institute for Biophysical Chemistry, Goettingen, Germany; **2University Medical Center Goettingen (UMG), Goettingen, Germany; **3Max Planck Institute for Biophysical Chemistry, Goettingen, Germany
- MP 044 Kojak 2.0: New Features for the Analysis of Cross-Linked Proteins; Michael R. Hoopmann¹; Alex Zelter²; Michael Riffle²; Jimmy K Eng²; Trisha N Davis²; Robert L Moritz¹; ¹Institute for Systems Biology, Seattle, WA; ²University of Washington, Seattle, WA
- MP 045 Systems Structural Biology of the Heart: Impact of Lysine Acetylation on Protein Conformations and Interactions; Juan Chavez¹; Matthew A Walker¹; Arianne Caudal¹; Bo Zhou¹; Andrew Keller¹; Rong Tian¹; James E. Bruce¹; ¹University of Washington, Seattle, WA
- MP 046 Structural Interrogation of Phosphorylation-Dependent Proteasome Dynamics Using a Multifaceted Cross-Linking and Targeted Quantitation-Based Approach;

 Clinton Yu¹; Lan Huang¹; Xiaorong Wang¹; ¹University of California, Irvine, CA
- MP 047 Determination of the Yield of Copper-Catalyzed Click Reaction on Individual Newly Synthesized Proteins with Azidonorleucine Inside Live Cells; Chengzhi Cai¹; Guoting Qin¹; Rufeng Li¹; ¹University of Houston, Houston, TX
- MP 048 Tyrosine-Specific Nitration of Influenza Hemagglutinin Proteins by Selective Covalent Labeling and Mass Spectrometry; Carrie L. Pierce¹; Jonathan L. Bundy¹; Jakub Baudys¹; Tracie L. Williams¹; Dongxia Wang¹; Maria I. Solano¹; John R. Barr¹; ¹Centers for Disease Control and Prevention. Atlanta. Georgia 30341
- MP 049 Acquisition Mode Characterization for the Quantitative and Qualitative Analysis of Cross-Linked Peptides by Targeted and Untargeted LC-IM-MS; Hannah Britt¹; Suniya Khatun¹; Abubakar Hatimy¹; Jonathan P Williams²; Chris Hughes²; Tristan Cragnolini¹; Nathanael Page³; Konstantinos Thalassinos¹; Johannes PC Vissers²; ¹UCL, London, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom; ³LGC Group. Teddington. United Kingdom
- MP 050 Tools for Atomic-Resolution Protein Structure
 Determination in Cells: CID-Cleavable Photo-Amino
 Acids and Purification of Crosslinked Peptides of Any
 Origin; Bjorn-Erik Wulff¹; Joshua E. Elias¹; Pehr Harbury¹;

 1 Stanford University, Stanford, CA
- MP 051 Monitoring the Aggregation-Induced Conformational Conversion of α-Synuclein Protein by Fast Photochemical Oxidation of Proteins (FPOP); Prashant N. Jethva¹; Jing Yan¹; Eva Illes-Toth²; Michael L. Gross¹; ¹Department of Chemistry, Washington University, St. Louis, MO; ²School of Biosciences, University of Birmingham, Birmingham, United Kingdom



- MP 052 Next Generation Dual Cleavable Cross-Linking Strategies for High Confidence Identification of Cross-Linked Peptides; Jayanta Kishor Chakrabarty¹; Fang Zixiang¹; Abu Hena M. Kamal¹; Saiful M. Chowdhury¹; ¹University of Texas, Arlington, TX
- MP 053 Determination of Ligand and pH-Induced Conformational Changes in the Cation-Independent Mannose-6-Phosphate Transferase by Fast Photochemical Oxidation of Proteins; Sandeep K.

 Misra¹; Linda J. Olson²; Nancy M. Dahms³; Joshua S.
 Sharp¹; ¹University of Mississippi, University, MS; ²Medical College of Wisconsin, Milwaukee, MI; ³Medical College of Wisconsin. Milwaukee. WI
- MP 054 Describing the Interaction XcpU and XcpW from the Pseudomonas aeruginosa Type II Secretion Machinery Using Cross Linking Mass Spectrometry; Badreddine Douzi¹; Geneviève Ball¹; Cristian A Escobar Bravo²; Edwin De Pauw³; Katrina Forest²; Romé Voulhoux¹; Loic Quinton³; ¹CNRS, Aix-Marseille Université, IMM, Laboratoire de Chimie Bactérienne UMR7283, Marseille, France; ²Department of Bacteriology, University of Wisconsin-Madison, WI, 53706, USA, Madison, WI; ³Laboratoire de Spectrométrie de Masse MolSys Research Unit Liège Université, Liège, Belgium
- MP 055 Accelerated Biomolecular Cross-Linking by Contained-Electrospray Ionization for Rapid Detection by Mass Spectrometry; Benjamin J. Burris¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- MP 056 Novel Methods for Chemical Crosslinking Based Protein Complex Analysis; Qun Zhao¹; Yuxin An¹; Lili Zhao²; Lihua Zhang²; Yukui Zhang²; ¹Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian, China; ²Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- MP 057 Application of Phenyl-based Columns in Improving the Identification of Inter-crosslinked Peptides; Zixiang Fang¹; Yehia Z. Baghdady¹; Kevin A Schug¹; Saiful M. Chowdhury¹; ¹University of Texas Arlington, Arlington
- MP 058 Energy Barriers to the Pre-amyloid Structural
 Change of β-2-microglobulin in the Presence of the
 Amyloidogenic Variant ΔN6 or Amyloid Inhibitors;
 Blaise G. Arden¹; Richard W. Vachet¹; ¹University of
 Massachusetts. Amherst. MA
- MP 059 OpenPepXL: Sensitive, Comprehensive Identification and Quantification of Protein-Protein Cross-Links;

 Eugen Netz¹; Tjeerd M.H. Dijkstra¹; Timo Sachsenberg²; Oliver Kohlbacher¹.².³.⁴; ¹Biomolecular Interactions group, Max Planck Institute for Developmental Biology, Tuebingen, Germany; ²Applied Bioinformatics group, University of Tuebingen, Tuebingen, Germany; ³Quantitative Biology Center (QBiC), University of Tuebingen, Tuebingen, Germany; ⁴Institute for Translational Bioinformatics, University Hospital Tuebingen, Tuebingen, Germany
- MP 060 XiView: A common platform for the Downstream Analysis of Crosslinking Mass Spectrometry data; Martin J Graham^{1, 2}; Colin Combe^{1, 2}; Lars Kolbowski³; Juri Rappsilber^{1, 2, 3}; ¹Wellcome Centre for Cell Biology, Edinburgh, United Kingdom; ²University of Edinburgh, Edinburgh, United Kingdom; ³Technische Universität Berlin, Berlin, Germany

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MP 061 Reducing the Global Burden of Infectious Diseases through Precision Infection Management (PIM); Lewis1; Fiona Clement1; Deirdre L Church2; Ashlee Earl3; Yonatan Grad4; Christopher Naugler2; Sergei Noskov1;

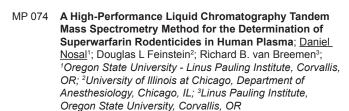
1 University of Calgary, Calgary, AB; 2 Calgary Laboratory Services, Calgary, AB; 3 Broad Institute of MIT and Harvard,

- Cambridge, MA; ⁴Harvard T.H. Chan School of Public Health, Boston, MA
- MP 062 Interference from Sulfonated Metabolites in the Analysis of β-Lapachone in Clinical Human-Plasma Samples Using Liquid Chromatography-Mass Spectrometry; Seungil Cho¹; Bo Kyung Kim¹; Mi-ri Gwon¹; Young-ran Yoon¹; 'Kyungpook National University, Daegu, South Korea
- MP 063 Characterization of an Amphetamine Interference from Gabapentin in an LC-HRMS Confirmation Assay; Ana Celia Grenier¹; Teresa Pekol¹; Dana Schubring¹; Charlene Johnson¹; Lawrence J Andrade¹; Robin Hyland¹; ¹Dominion Diagnostics, North Kingstown, RI
- MP 064 Ambient Mass Spectrometry Immunoassays for the Ultra-Sensitive Biomarker Detection and Tissue Glycan Imaging; Yu Bai¹; Shuting Xu²; Wen Ma²; Huwei Liu²;

 ¹College of Chemistry, Peking University, Beijing, China;
 ²Peking University, Beijing, China
- MP 065 Dried Blood Spheroids for Stabilizing Acylcarnitines in Micro-liter Blood Samples Stored under Ambient Conditions; Benji Frey¹; Deidre E. Damon¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- MP 066 Quantification of 11-plex LSD Enzyme Activity Using LC-MS/MS; Ryuichi Mashima¹; Torayuki Okuyama¹; Mari Ohira¹; *National Center for Child Health and Development, Setagaya-Ku, Japan
- MP 067 A Comparison of Tenofovir Diphosphate and Emtricitabine Triphosphate Concentrations Collected in Whole Blood by a Microsampler or Dried Blood Spot; Amanda P Schauer¹; Craig Sykes¹; Jason R Pirone¹; Nicole White¹; Hannah Bryan¹; Angela DM Kashuba¹; ¹University of North Carolina, Chapel Hill, NC
- MP 068 A Sensitive and Robust HPLC MS/MS (MRM) Method for the Quantitation of Hepcidin in Human Serum;

 Jun Liu¹; Michael Chen²; ¹University of British Columbia, Vancouver, BC; ²Island Medical Program, Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC
- MP 069 Lipid and Apolipoprotein Changes in Response to Inflammation with Type 2 Diabetes; Bryan Parks¹;
 Zsuzsanna Kuklenyik²; John R Barr²; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²Centers for Disease Control and Prevention, Atlanta, Georgia
- MP 070 Simultaneous Determination of Eight Antiepileptic Drugs and an Active Metabolite in Human Plasma by LC-MS/MS; Tian Liu¹; Raghavendhar R Kotha¹; Stephanie Zalesak¹; Jace W Jones¹; James E Polli¹; Maureen A Kane¹; ¹Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, Baltimore, MD
- MP 071 Fully Automated LC-MS/MS Analysis of Anticoagulants Using a Stable Isotope Labelled Internal Standards; Toshikazu Minohata^{1, 2}; Yuki Uno²; Sigrid Baumgarten³; Stéphane Moreau³; Fanny Dayot'; Jean-François Hoeffler¹;

 **IAlsachim SAS, Illkirch, France; **2Shimadzu Corporation, Kyoto, Japan; **3Shimadzu Europa GmbH, Duisburg, Germany
- MP 072 Sensitive Cortisol Analysis Using a Single Hair with Nanoflow UPLC- MS3 Tandem Mass Spectrometry; Chih-Wei Chang¹,²; Linjer Chen¹; Li-Jung Ma¹; Pin-Hsuan Wang¹; Yet-Ran Chen²; Pao-Chi Liao¹; ¹Department of Occupational and Environmental Health, Medical College, National Cheng Kung University, Tainan, Taiwan; ²Agriculture Biotechnology Research Center, Academia Sinica, Taipei, Taiwan
- MP 073 A Two-Minute Liquid Chromatography/lon Mobility
 Mass Spectrometry Method for Quantitation of
 25-Hydroxyvitamin D without Interference from 3-epi-25Hydroxyvitamin D; Nicholas Oranzi¹; Jiajun Lei¹; Timothy J.
 Garrett¹; Richard A Yost¹; ¹University of Florida, Gainesville, FL



MP 075 Assessing Isolate-Specific Antimicrobial Resistance
Patterns of Klebsiella pneumoniae; Thomas D. Horvath¹.

²; Sibel Ak^{1, 2}; Sigmund J. Haidacher^{1, 2}; Kathleen Hoch¹.

²; Tor C. Savidge^{1, 2}; Anthony M. Haag^{1, 2}; ¹Department of Pathology and Immunology, Baylor College of Medicine, Houston, TX; ²Microbiome Center, Texas Children's Hospital, Houston, TX

MP 076 Mass spectrometry shows limitations of lectin-based approaches to quantify galactose-deficient IgA1 in circulation of IgA nephropathy patients and controls; Olivier M. Lardinois¹; Patrick H. Nachman²; Jason G. Williams¹; Leesa J Deterding¹; ¹Mass Spectrometry Research and Support Group, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC; ²Division of Renal Diseases and Hypertension, University of Minnesota, Minneapolis, MN

MP 077 Elucidating Multi-Omic Molecular Signatures of End-Term Preeclampsia and Gestational Diabetes Mellitus; Melanie T. Odenkirk¹; Kristin E. Burnum-Johnson²; Brandie D. Taylor³; Kelly G. Stratton²; Marina A. Gritsenko²; Lisa M. Bramer²; Bobbie-Jo Webb-Robertson²; Jennifer Kyle²; Kent J. Bloodsworth²; Karl K Weitz²; Erin S Baker¹; ¹Department of Chemistry, North Carolina State University, Raleigh, NC; ²Biological Sciences Division, Pacific Northwest National Laboratory, Richland, WA; ³College of Public Health, Temple University, Philadelphia, PA 19122

MP 078 Development of a Quantitative Method for the Measurement of Free Oligosaccharides in Plasma and Urine from Patients with Aspartylglucosaminuria;

Beniam Berhane¹; Tim Wood¹; Laura Pollard¹; ¹Greenwood Genetic Center, Greenwood, SC

MP 079 Discovery of Tumor-Specific Antigens for Leukemia Immunotherapy Using a Novel Proteogenomic Approach; Sibylle Pfammatter¹; Eric Bonneil¹; Joel Lanoix¹; Krystel Vincent¹; Chantal Durette¹; Jean-Philippe Laverdure¹; Mathieu Courcelles¹; Marie-Pierre Hardy¹; Sebastien Lemieux¹; Claude Perreault¹; Pierre Thibault¹; ¹Université de Montréal, Montréal, Québec

MP 080 Pharmacokinetic Interactions of a Red Clover Botanical Dietary Supplement with Drug Metabolism in Peri- and Post-menopausal Women; Jaewoo Choi¹; Luying Chen².³; Scott W. Leonard¹; Suzanne Banuvar³; Elena Barengolts³; Marlos Viana³; Richard B. van Breemen².³; ¹Linus Pauling Institute, Oregon State University, Corvallis, Oregon; ²Linus Pauling Institute, College of Pharmacy, Oregon State University, Corvallis, OR; ³UIC/NIH Center for Botanical Dietary Supplements Research, Chicago, IL

MP 081 An Efficient MS Method for Screening 20 Genotypes of Human Papillomavirus; Yun Zhao¹; Shanyun Lin¹; Panhong Liu¹; Xuehui Tang¹; Zhe Ren¹; Yan Ren¹; Siqi Liu¹; *
IBGI-Shenzhen, Shenzhen, China

MP 082 Development of Glycosaminoglycan Assays for Mucopolysaccharidoses Using LC-MS/MS; Takanari Hattori¹; Tetsuo lida¹; Jun Watanabe¹; Misa Tanaka²; Hironori Kobayashi³; Shunji Tomatsu⁴; ¹Shimadzu Corporation, Kyoto, Japan; ²MS specialite, Yokohama, Japan; ³Department of Pediatrics, Shimane University Faculty of Medicine, Izumo, Japan; ⁴Nemours/Alfred I. duPont Hospital for Children, Wilmington, Delaware

MP 083 A Rapid LC-MS/MS Method to Measure Simultaneously IDUA, IDS, NAGLU, GALNS and ASRB Enzymes

Activities in Dried Blood Spots; Misa Tanaka¹; Jun Watanabe²; Tetsuo lida²; Hironori Kobayashi³; ¹MS specialite, Yokohama, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³Department of Pediatrics, Shimane University Faculty of Medicine, Izumo, Japan

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MP 084 Efficient and Comprehensive Metabolite Identification by Utilizing Automatic Background Exclusion and Specific Filtering Features of Orbitrap ID-X Tribrid Mass Spectrometer; Kai Wang¹; Sven Hackbusch²; Kate J. Comstock²; Kevin Coe¹; ¹Janssen R&D, San Diego, CA; ²Thermo Fisher Scientific, San Jose, CA

MP 085 A New Strategy Optimized for Metabolite Profiling on a Tribrid Mass Spectrometer Platform; Qian Ruan¹; Kenneth P. Matuszak²; Kate J. Comstock³; ¹Bristol-Myers Squibb, Princeton, NJ; ²ThermoFisher Scientific, Bannockburn, IL; ³ThermoFisher Scientific, San Jose, CA

MP 086 Application of Novel Background Exclusive DDA for Automated and Sensitive MS/MS Acquisition of Unknown Herbal Medicine Components in Biological Samples; Tingting Cai¹; Chunyan Zhu²; Ying Jin²; Jiayun Chen²; Guoqiang Liu³; Niusheng Xu³; Caisheng Wu²; Mingshe Zhu⁴; ¹WuXi AppTec, Nanjing, China; ²Xiamen University, Xiamen, China; ³Thermo Fisher Scientific, Shanghai, China; ⁴MassDefect Technologies, Princeton, NJ

MP 087 Highly Accurate Detection and Identification Methodology of Xenobiotic Metabolites Using Stable Isotope Labeling, LC/HRMS/MS Analysis, and Data Mining Techniques; Masatomo Takahashi¹; Yoshihiro Izumi¹; Fukumatsu Iwahashi²; Yasumune Nakayama³; Mitsuhiko Iwakoshi²; Motonoa Nakao¹; Seiji Yamato²; Eiichiro Fukusaki⁴; Takeshi Bamba¹; ¹Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan; ²Sumitomo Chemical Co., Ltd., Takarazuka, Japan; ³Graduate School of Biotechnology and Life Science, Sojo University, Kumamoto, Japan; ⁴Graduate School of Engineering, Osaka University, Suita, Japan

MP 088 Integrating Discovery-Stage Metabolite Analysis into High-Throughput Microsomal Clearance Pipelines; Elyse Freiberger¹; David Wagner¹; ¹AbbVie Inc., North Chicago, IL

MP 089 in vitro Metabolic Studies of SARMs RAD-140 and S-23 in Horse Using Ultra-High Performance Liquid Chromatography–High Resolution Mass Spectrometry; Yat Ming So¹; Timmy Lai Sheung Choi¹; Gary Ngai Wa Leung¹; Pauly Kit Sze Chan¹; Ming Yip Lau¹; Emmie Ngai Man Ho¹; ¹Racing Laboratory, The Hong Kong Jockey Club, Hong Kong, Hong Kong

MP 090 Investigating Clozapine-Related Protein Binding in vitro by LC-MS/MS; Timon Geib¹; Lekha Sleno¹; ¹UQAM, Montreal, QC

MP 091 Involvement of Olmutinib Reactive Metabolites on its Severe Toxic Reactions: Potential Answers by Mass Spectrometry; Adnan A Kadi¹; Mohamed W. Attwa¹.²; Ali S. Abdelhameed¹; ¹College of Pharmacy, King Saud University, Riyadh, SA, Riyadh, Saudi Arabia; ²Students' University Hospital, Mansoura, Egypt

MP 092 Balancing Quality and Quantity in Quan/Qual LC-HRMS Analysis; Anne-Charlotte Dubbelman¹; Filip Cuyckens²; Lieve Dillen²; Rob J. Vreeken¹.²; Thomas Hankemeier¹; ¹Leiden University, Leiden, Netherlands; ²Janssen R&D, Beerse, Belgium

MP 093 Metabolism Study of Simvastatin in Rat Tissues Using MALDI Orbitrap Mass Spectrometry; Wencui Yin¹; Adnan A Kadi¹; Alwabli Reem¹; Rahman M A f m¹; ¹King Saud University, Riyadh, Saudi Arabia



- MP 094 Ultraviolet Photodissociation Enables Confirmation of Site Specific Glucuronidation on Small Molecule Metabolites; Joe R. Cannon¹; Zhoupeng Zhang¹; Joshua Nicklay²; Romain Huguet²; Scott M. Peterman²; Nichoals Duczak²; Mark Cancilla¹; ¹Merck & Co., Inc., West Point, PA; ¹Thermo Fisher Scientific, San Jose, CA
- MP 095 Quantitative Analysis of Hair Samples for Methotrexate (MTX) and Metabolite Using High-Performance Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) Detection; Yeongsuk Yoo¹; Sang Kwang Lee²; Kun Cho³; ¹Korean Basic Science Institute, Cheong-ju, South Korea; ²Eulji Medi-Bio research institute, Daejeon, South Korea; ³Korea Basic Science Institute, Seoul, South Korea
- MP 096 High Throughput Drug Accumulation Assay and Impact on Metabolome of Drug-Resistant Bacteria;

 Vincent Bonifay¹; Inga V. Leus²; Brinda Chandar²; Helen
 I. Zgurskaya²; ¹University of Oklahoma, Norman, OK;

 ²University of Oklahoma, Norman, OK
- MP 097 Improving Peptide Catabolism Interpretation Using Ion Mobility Data and Server-Based Data Review with HELM Integration; Mark D Wrona¹; Gordon Murray²; Russell Mortishire-Smith³; Yun W Alelyunas¹; Antoni Riera⁴; Tatiana Radchenko⁵; Anna Escola⁴; Ismael Zamora⁵; Jayne Kirk³; **Waters Corporation, Milford, MA; **2Waters Corporation, Beverly, MA; **3Waters Corporation, Wilmslow, United Kingdom; **Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, Barcelona, Spain; *\$Lead Molecular Design, S.L., Sant Cugat Del Valles, Spain
- MP 098 EI-MAVEN: First in Class Mass Spectrometry Data Processing Engine for Metabolomics; Shefali Lathwal¹; Shubhra Agrawal¹; Raghav Sehgal¹; Surbhi Poddar¹; Rishabh Gupta¹; Saiful Khan¹; Sahil Kumar¹; Sabu George¹; Swetabh Pathak¹; Abhishek Jha²; **IElucidata, Delhi, India; **2Elucidata, Cambridge, MA**

DRUG AND METABOLITE ANALYSIS: NOVEL APPROACHES FOR DRIED BIOLOGICAL SAMPLES 099-103

- MP 099 Fully Automated Forensic Screening of Dried Bloodspots with MRM Spectrum Mode; Davor Fielitz¹; Stefan Gaugler²; Jana Rykl³; Maha Khalid Almazraoua⁴; Matthias Grill⁵; Vicente L. Cebolla⁰; Asem Quanair⁻; ¹Shimadzu Deutschland GmbH, Berlin, Germany; ²CAMAG, Muttenz, Switzerland; ³Shimadzu Switzerland, Reinach, Switzerland; ⁴The Regional Poison Control Center, Dammam, Saudi Arabia; ⁵Lipomed, Arlesheim, Switzerland; ⁴Instituto de Carboquímica, Zaragoza, Spain; ¬Analytica One. Al-Hidd. Bahrain
- MP 100 Probing Protein-Ligand Interactions by Native LESA Mass Spectrometry; Eva Illes-Toth¹; Helen J. Cooper¹; ¹University of Birmingham, Birmingham, United Kingdom
- MP 101 Incorporating Novel Synthetic DBS Substrates into a Blood Microsampling Device for Multi-Omics Analyses; Kyle Bachus¹; Lada Staskova².³; Jeff Craig³.⁴; Robert Shellie⁵; Ricardo Neto⁶; Dario Arrua⁶; Emily F Hilder⁶; Andrew Gooley¹; Wei Boon Hon¹; ¹Trajan Scientific and Medical, Ringwood, Australia; ²RMIT University, Melbourne, Australia; ³Centre for Molecular and Medical Research, School of Medicine, Faculty of Health Deakin University, Geelong, Australia; ⁴Murdoch Children's Research Institute, The Royal Children's Hospital, Parkville, Australia; ⁵Centre for Advanced Sensory Science (CASS), School of Exercise and Nutrition Sciences, Deakin University, Melbourne, Australia; ⁵Future Industries Institute, University of South Australia, Mawson Lakes Campus, Adelaide, Australia
- MP 102 Organic Synthesis Reaction Monitoring of a Fentanyl Synthesis Using a Microporous Polyolefin Silica Substrate for Paper Spray Mass Spectrometry; Thomas

- <u>D Kiselak</u>¹; Imesha W. DeSilva²; Anika Claassen²; Guido F. Verbeck²; ¹University of North Texas, Roanoke, TX; ²University of North Texas, Denton, TX
- MP 103 Enabling Patient Centricity in Clinical Development through at Home Sample Collection; Melanie Anderson¹; Daniel Dreyer¹; Lingling Xue¹; Marissa Dockendorf¹; Kevin P. Bateman¹; ¹Merck & Co., West Point, PA

ENERGY: BIOFUELS AND ALGAE

- MP 104 Application of Thin-Layer Chromatography to Deep Investigation of Maltenes and Asphaltenes Compound Classes by Ultra-High Resolution Mass-Spectrometry; Alexander Zherebker¹; Yury kostyukevich¹; Oleg Kharybin¹; Gleb Vladimirov¹; Eugene (evgeny) Nikolaev¹; ¹Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 105 Comprehensive Analysis of Isoprenoid Pathway Intermediates and Associated Metabolites by HILIC-QTOF LC/MS; Edward Baidoo¹; Yuqin Dai²; Veronica Teixeira Benites¹; ¹Joint BioEnergy Institute/LBNL, Emeryville, CA; ²Agilent Technologies, Santa Clara, CA
- MP 106 Structure Dependent Electrospray Ionization Response ofb-O-4 lignin Compounds; Shardrack O. Asare¹; Bert C. Lynn¹; **University of Kentucky, Lexington, KY
- MP 107 Insight into Biomass Pyrolysis from Molecular Beam Mass Spectrometry; Steven M Rowland¹; Anne K Starace¹; Kristen Hietala¹; Daniel L Carpenter¹; ¹National Renewable Energy Lab. Golden. CO
- MP 108 Detailed Chemical Composition of an Oak Biocrude and Its Hydrotreated Product Determined by Positive Atmospheric Pressure Photoionization FT-ICR Mass Spectrometry; Alan G. Marshall¹; Rebecca L. Ware²; Ryan P. Rodgers²; Ofei D Mante³; David C Dayton³; Sylvain Verdier⁴; Steven M Rowland²; ¹NHMFL, Florida State Univ., Tallahassee, FL; ²National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ³, RTI International, Research Triangle Park, NC; ⁴Haldor Topsoe A/S, Lyngby, Denmark
- MP 109 Coupling LC-MS/MS-Based Proteomics and Targeted Metabolite Analysis Reveals Novel Enzymatic Solutions for Lignin Utilization and Valorization in Novosphingobium aromaticivorans; Richard J. Giannone^{1, 2}; David C Garcia^{3, 4}; Gerald N Presley^{2, 3}; Jacob H Cecil³; Joshua K Michener^{2, 3}; ¹Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN; ²Center for Bioenergy Innovation, Oak Ridge National Laboratory, Oak Ridge, TN; ⁴The Bredesen Center for Interdisciplinary Research and Graduate Education, University of Tennessee, Knoxville, TN
- MP 110 High-Resolution Mass Spectrometry (FT-ICR) Analysis of Milled Wood Lignins; Evan Terrell¹; Vincent Carré²; Frédéric Aubriet²; Anthony Dufour³; Manuel Garcia-Perez¹; ¹Washington State University, Pullman, WA; ²Université de Lorraine, ICPM, Metz, France; ³Université de Lorraine, LRGP, CNRS, Nancy, France
- MP 111 Application of Gas Chromatography Mass Spectrometry for the Analysis of Structural Isomers of Lignin Dimers; Poorya Kamali¹; Bert C. Lynn¹; **Department of Chemistry, University of Kentucky, Lexington, KY
- MP 112 Using SPME-GC-MS for Chemical Profiling of Volatile Organic Compounds Emitted as Early Biomarkers of Algal Pond Crashes; Kristen L. Reese^{1, 2}; Carolyn L. Fisher³; Matthew W. Moorman⁴; A. Daniel Jones²; Matthias Frank¹; Todd W. Lane³; **Lawrence Livermore National Laboratory, Livermore, CA; **Michigan State University, East Lansing, MI; **Sandia National Laboratory, Albuquerque, NM



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- MP 114 Identification of Transformation Products and Disinfection By-Products in Wastewater Impacted Drinking Water; Danielle C. Westerman¹; Hannah K Liberatore¹; Kristin H Cochran¹; Cassiana Montagner²; Michael J Plewa³; Leslie H Cizmas⁴; Jeanne VanBriesen⁵; Dionysios Dionysiou⁵; Ying Huang⁶; Daniel Schlenkʔ; Keith Loftin՞³; Tarun Anumol⁰; Susan D. Richardson¹; ¹University of South Carolina, Columbia, SC; ²University of Campinas, Campinas, Brazil; ³University of Illinois Urbana-Champaign, Urbana-Champaign, IL; ⁴Texas A&M University, College Station, TX; ⁵Carnegie Mellon University, Pittsburgh, PA; ⁶University of Cincinnati, Cincinnati, OH; ⁻University of California Riverside, Riverside, CA; ⁰U.S. Geological Survey, Lawrence, KS; ⁰Agilent Technologies, Wilmington, DE
- MP 115 Per- and Polyfluoroalkyl Substances (PFAS) Analysis in Human Serum and Plasma by Ultra-Performance Liquid Chromatography Tandem Mass Spectrometry (UPLC-MS/MS); M Abdul Mottaleb^{1, 2}; Michael Petriello^{1, 2}; Jennifer Miller³; Susan S Smyth^{1, 2}; Debra K Moser³; Andrew J Morris^{1, 2}; ¹Division of Cardiovascular Medicine, University of Kentucky, Lexington, KY; ²Lexington Veterans Affairs Medical Center, Lexington, KY; ³College of Nursing, University of Kentucky, Lexington, KY
- MP 116 Determination of Novel Dihydroxylated Polybrominated Diphenyl Ethers in Sea Fish by Gas Chromatography Tandem Mass Spectrometry; Mengtao Zhang¹; Jianghong Shi²; Zongwei Cai¹; ¹Hong Kong Baptist University, Hong Kong, China; ²Southern University of Science and Technology, Shenzhen, China
- MP 117 Discovery of Novel N-(4-hydroxybenzyl)valine
 Hemoglobin Adducts in Human Blood.; Amanda Degner¹²; Henrik Carlsson³; Isabella Karlsson³; Johan Eriksson³;
 Andrew Rajczewski¹-²; Suresh Pujari¹-²; Margareta
 Törnqvist³; Natalia Tretyakova¹-²; ¹University of Minnesota,
 Minneapolis, MN; ²Masonic Cancer Center, U of MN,
 Minneapolis; ³Stockholm University, Stockholm, Sweden
- MP 118 Quantification of Persistent Organic Pollutants in Human Blood Using Stir Bar Sorptive Extraction, GC/MS/MS, and Isotope Dilution Mass Spectrometry; Weier Hao¹; Ashley Dillard¹; Anthony Macherone²; Jack Stuff³; Scott Faber⁴; Skip Kingston¹; Matt Pamuku⁵; ¹Duquesne University, Pittsburgh, PA; ²Agilent Technologies, Inc., Wilmington, DE; ³Gerstel, Inc., Linthicum, MD; ⁴The Children's Institute of Pittsburgh, Pittsburgh, PA; ⁵Applied Isotope Technologies, Pittsburgh, PA
- MP 119 GC-MS-Based Workflow for Discovery and Characterization of Biomarkers of Exposure to Greenness in Human Urine; Zhengzhi Xie¹; Rachel Keith¹; Aruni Bhatnagar¹; Pawel Lorkiewicz¹; ¹University of Louisville, Louisville, KY
- MP 120 Neutral Loss and Product Ion Filtering to Screen Exposure Biomarkers to Common and Novel Phthalates: Application to a Standards Mixture; Syam S. Andra¹; Georgia Dolios¹; Divya Pulivarthi¹; Dhavalkumar Patel²; Emily A Spear³; Lauren Petrick¹; Manish Arora¹; Annemarie Stroustrup³; ¹Department of Environmental Medicine and Public Health, Icahn School of Medicine at Mount Sinai, New York City, NY; ²School of Pharmacy, Texas Tech University Health Sciences Center, Amarillo, Texas; ³Department of Pediatrics, Icahn School of Medicine at Mount Sinai, New York City, NY
- MP 121 IR-MALDESI Mass Spectrometry Imaging of Rat Placenta Tissue after Exposure to Flame Retardants;

- Crystal L Pace¹; Måns Ekelöf¹; Brian Horman²; Heather Patisaul^{2, 3}; Heather Stapleton⁴; David C Muddiman^{1, 3, 5}; ¹FTMS Laboratory for Human Health Research, Department of Chemistry, North Carolina State University, Raleigh, NC; ²Department of Biological Sciences, North Carolina State University, Raleigh, NC; ³Center for Human Health and the Environment, North Carolina State University, Raleigh, NC; ⁴Nicholas School of the Environment, Duke University, Durham, NC; ⁵Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
- MP 122 A Novel Use of Isotopomers for *in situ* Calibration;
 Anthony Qualley^{1, 2}; Geoffrey Hughes^{1, 2}; Thomas Malloy
 IV³; Ted Piatkowski³; Benjamin A Clapp²; H. Mitchell
 Rubenstein²; ¹UES, Inc., Dayton, OH; ²USAF-AFRL,
 WPAFB, OH; ³Batelle, Columbus, OH
- MP 123 Characterization of Arsenic Metabolites and Protein-Binding Using Chromatography Coupled to Multiple Mass Spectrometry Techniques; Hanyong Peng¹; Bin Hu²; Qingqing Liu¹; Xiufen Lu¹; Xiaowen Yan¹; X. Chris Le³; ¹University of Alberta, Edmonton; ²Wuhan University, Wuhan, China; ³University of Alberta, Edmonton, AB
- MP 124 *in vitro* Metabolism of Bisphenol A and Five Analogs by LC-HRMS/MS; Ons Ousji¹; Leanne Ohlund¹; Lekha Sleno¹; ¹UQAM, Montreal, QC
- MP 125 Extractables and Leachables Analysis Using a Quadrupole Time of Flight Mass Spectrometer Using SWATH Acquisition; Rolf Kern¹; Patricia Sun²; Alex Liu²;

 ¹SCIEX, Redwood Shores, CA; ²Sciex, Framingham, MA
- MP 126 Electrochemical Simulation of Triclosan Metabolism and Toxicological Evaluation; Hendrik Jan Brouwer¹; Jean-Pierre Chervet¹; Linyan Zhu²; Stephan Küppers³; ¹Antec Scientific, Zoeterwoude, Netherlands; ²Maryland Institute for Applied Environmental Health, University of Maryland, 4200 Valley Drive, College Park, MD 20742; ³Research Center Jülich, Department of Analytics, Jülich, Germany
- MP 127 Rapid Assessment of Isomeric Diversity in Perfluoroalkyl Substances (PFAS) by Ion Mobility Spectrometry-Mass Spectrometry (IMS-MS); James Dodds¹; John C. Fjeldsted²; Erin S Baker¹; ¹North Carolina State University, Raleigh, NC; ²Agilent Technologies, Inc., Santa Clara, CA
- MP 128 Tracking Microcystin Oxidation Product Formation by Liquid Chromatography/High Resolution Mass Spectrometry (LC/HRMS) and Implications for Process Monitoring and Treatment; Judy Westrick¹; Johnna A Birbeck¹; Nicholas Peraino¹; David C Szlag²; ¹Wayne State University, Detroit, MI; ²Oakland University, Rochester, MI
- MP 129 Detection of Endocrine Disrupting Chemicals (EDCs) and Pharmaceuticals and Personal Care Products (PPCPs) in Environmental Waters Using Online Concentration LC-MS/MS; Johnna A Birbeck¹; Judy Westrick¹; Cassandra L Ward¹; Diana McKenzie²; ¹Wayne State University, Detroit, MI; ²Bay Mills Community College, Brimley, MI
- MP 130 Improving Non-Target Identification of Organic Contaminants by Probabilistic Ranking of Putative Structure Assignments by HR/AM MS(/MS) and Computational Mass Spectrometry; Gordon Getzinger¹; P. Lee Ferguson¹; ¹Duke University, Durham, NC

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MP 131 Polymerization in Place: Decreasing the Mobility of Halogenated Contaminants by Biotic and Abiotic Pathways; Fan Wang¹; Shay Frankenfield¹; Thomas M. Makris¹; John L. Ferry¹; ¹University of South Carolina, Columbia, SC



- MP 132 Determination of Pharmaceuticals in Wastewater Using Online Extraction by LC-MS/MS; Bianca Silva¹; Cesar Augusto Marasco Junior²; Paulo Clairmont Feitosa de Lima Gomes²; ¹Unesp, Araraquara, Brazil; ²Unesp, Araraquara, Brazil
- MP 133 Comprehensive Quantification of 30 Disinfection Byproducts Employing a Gas Chromatograph Triple Quadrupole Mass Spectrometer (GC-QQQ) from Disinfected Wastewater Effluents; Susana Y Kimura Hara¹; Alejandro Ortega-Hernanzdez¹; ¹University of Calgary, Calgary, AB
- MP 134 The PFAS Conundrum: Mass Spectrometry Solutions for Addressing it; Ruth Marfil-Vega¹; Brahm Prakash²; Gerard Byrne²; Tairo Ogura³; Yuka Fujito²; ¹Shimadzu Scientific Instruments, Columbia, MD; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ³Shimadzu corp., Kyoto, Japan
- MP 135 A Comparison of Electrospray Ionization (ESI) and Paper Spray (PS) Ionization for the Analysis of Polyfluoroalkyl Substances (PFAS); Tavleen K. Kochar¹; Megan R. Ogorchock¹; Gary L. Glish¹; ¹University of North Carolina, Chapel Hill, NC
- MP 136 Investigating Degradation of Fluorinated Compounds in Water Using LC-Plasma Assisted Reaction Chemical Ionization-MS; Kunyu Zheng¹; Joseph Lesniewski¹; Samuel White¹; Kaveh Jorabchi¹; ¹Georgetown University, Washington, DC
- MP 137 The Removal of Microcystins from Water Using Treated Rice Husk; Dilrukshika S. W. Palagama¹; Amila M. Devasurendra¹; David Baliu-Rodriguez¹; Jon R. Kirchhoff¹; Dragan Isailovic¹; ¹The University of Toledo, Toledo, OH
- MP 138 Unraveling Carbon Flow within Microbial Communities
 Using Stable Isotope Probing Multi-Omic Techniques;
 Mary S Lipton¹; Marina A. Gritsenko¹; Samuel O. Purvine¹;
 Amy A. Boaro¹; Megan K. Nims¹; Alexandra Cory²; Krystin Riha¹; Thomas O. Metz¹; Young-Mo Kim¹; William C.
 Nelson¹; James J. Moran¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Florida State University, Tallahassee, FL
- MP 139 Analysis of Dioxins Utilizing Time-of-Flight for Low Level Quantitation; Tim Conjelko¹; Courtney Milner¹; Jeff Hollis¹; Matthew Curtis¹; ¹Agilent Technologies, Inc., Santa Clara, CA
- MP 140 Standard Reference Materials for Measurements of Emerging Contaminants; Kevin M. Huncik¹; Jessica L. Reiner²; John R. Kucklick²; ¹National Institute of Standards and Technology, Charleston, SC; ²NIST, Charleston, SC
- MP 141 Mass Spectrometry-Based Investigations of Phytoremediation and Tertiary Water Treatment in the Sewanee Constructed Research Wetland; <u>Jacqueline N. Langmo</u>¹; Anthony Wright¹; Tanisha Ghosh¹; W. Matthew Henderson²; Donovan Godbee¹; Devon Boullion¹; Scott Torreano³; Deborah Mcgrath³; Marsha C. Black¹; Franklin E. Leach lii¹; ¹University of Georgia, Athens, GA; ²Evironmental Protection Agency, Athens, GA; ³The University of the South. Sewanee. TN
- MP 142 Legacy and Emerging Perfluorinated Alkyl Substances in Water: Developing an SPE Method for LC-MS/
 MS Analysis; Kari Organtini¹; Kenneth Rosnack¹; Doug
 Stevens¹; Euan Ross²; Steven Lai³; ¹Waters Corporation,
 Milford, MA; ²Waters Corporation, Wilmslow, United
 Kingdom; ³Waters Corporation, Beverly, MA
- MP 143 Short Chain Chlorinated Paraffins (SCCPs) Analysis Using Negative Chemical Ionization (CI) and Low Energy EI by High-Resolution GC/Q-TOF; Sofia Nieto¹; Matthew Curtis¹; Nathan Eno¹; Courtney Milner¹; Pierre Dumas²; ¹Agilent Technologies, Inc., Santa Clara, CA; ¹Institut Nacional de Santé Publique du Québec (INSPQ), Québec, QC

- MP 144 Analysis of the Wastewater Effluent Samples to Identify Toxic Chemicals Using High-Resolution GC/Q-TOF; Sofia Nieto¹; Kai Chen¹; Courtney Milner¹; Thomas Young²; ¹Agilent Technologies, Inc., Santa Clara, CA; ²University of California, Davis, Davis, CA
- MP 145 Direct Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Ground, Surface and Waste Water by LC-MS/MS; Cristina C. Jacob¹; Claudia P.B. Martins¹; Michael Volny¹; Alan R. Atkins²; Richard F. Jack³; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Hemel Hempstead, UK, Hemel Hempstead, United Kingdom; ³Thermo Fisher Scientific, Sunnyvale, California
- MP 146 Trace Level Determination of Aniline Compounds in Water by Direct Aqueous Injection-UHPLC-MS/MS;
 Mingli Zhu¹; Weifeng Zhang¹; Lizhong Yang²; Xiangdong Zhou²; Chengyuan Cai³; Feng Qin⁴; ¹Guangzhou Agricultural Products Quantity and Safety Supervisory Institute, Guangzhou, China; ²PerkinElmer Management(Shanghai) Co.,Ltd., Shanghai, China; ³Perkinelmer Management (Shanghai) Co., Ltd., Shanghai, China; ⁴PerkinElmer, Inc.,, Woodbridge. ON
- MP 147 Semi-Automated Cleanup of Persistent Organic Pollutants in Environmental Samples Complete Separation of PCDD/Fs and PCBs for Extracts in Toluene; Hamid Shirkhan¹; Rudolf Addink¹; ¹Toxic Report, Watertown. MA
- MP 148 How is β-Cyclocitral Formed in SPME GC/MS of a Cyanobacterium?; Ryuji Yamashita¹; Keisuke Kanei¹; Eri Yamauchi¹; Koji Tomita²; Kiyomi Tsuji³; Ken-ichi Harada¹; ¹Meijo University, Nagoya, Japan; ²Aichi Prefectural Institute of Public Health, Nagoya, Japan; ³Kanagawa Prefectural Institute of Public Health, Chiqasaki, Japan
- MP 149 Poisoned Honey and Water: An Investigation into the Detection of Pesticides with a Novel Approach to SPE;

 Matthew Diplock¹; Raquel Gonzalez de Vega¹; Andrew Minett²; Philip Doble³; ¹University of Technology Sydney, Sydney, Australia; ²Eprep Pty Ltd, Mulgrave, Australia; ³University of Technology Sydney, Sydney, Australia
- MP 150 Analysis of Soil Extracts for Degradation Products of the Insensitive Munition DNAN via GC/MS-MS; Jeffrey Michael McGuire¹; Mark Haley¹; Michael Simini¹; Roman Kuperman¹; ¹U.S. Army RDECOM Chemical & Biological Center, Aberdeen Proving Ground, MD
- MP 151 Consequential Effects of Five Bisphenols Contaminated Microplastic Through Water and Simulated Intestinal Fluids: Implications for Human Health; Pengfei Wu¹; Yuanyuan Tang²; Hangbiao Jin³; Zongwei Cai¹; ¹HongKong Baptist University, HongKong, China; ²Southern University of Science and Technology, Shenzhen, China; ³Zhejiang University of Technology, Hangzhou, China
- MP 152 Device and Application of Real-Time VOCs Analysis in Air Based on ESI Mass Spectrometry; <u>Jiancheng Yu</u>¹; Junliang Zhang¹; Keqi Tang¹; ¹Ningbo University, Ningbo, China
- MP 153 Elucidating the Kinetics of Xanthates Decomposition in Mining Waters by Headspace Gas Chromatography-Mass Spectrometry; Kingsley Donkor¹; Adrian Batista¹; William Primrose¹; **Thompson Rivers University, Kamloops, BC
- MP 154 Aromatic Core Structure and Heteroatom Chemical Functionality Drive the Transformation of Petroleum into Water-Soluble Organic Matter; Sydney F Niles¹,²; Martha L Chacón-Patiño¹; Huan Chen¹; Steven M Rowland¹; Donald F Smith¹; Christopher L. Hendrickson¹,²; Alan G. Marshall¹,²; Ryan P. Rodgers¹,²; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²Florida State University, Tallahassee, FL



- MP 155 Development of Analysis and Purification Methods for Monitoring Dioxins in Sanitary Napkins; Young Sang Kwon¹; Sung-Gil Choi¹; Seung-Min Lee¹; Dong Yeol Lee²; Sang Gon Kim²; Jong-Su Seo¹; ¹Korea Institute of Toxicology, Munsan-eup, Jinju, South Korea; ²Gyeongnam Oriental Anti-aging Institute, Sancheong-gun, South Korea
- MP 156 Optimizing Extraction and Ionization Method for High Resolution Mass Spectrometry Analysis of Organic Compound; Sung June Kim¹; Sunghwan Kim¹; ¹Kyungpook National University, Daegu, South Korea
- MP 157 Rapid Non-Targeted Screening of Aqueous
 Environmental Samples Using Auto MS/MS; Imma
 Ferrer¹; Daniel L Sweeney²; E. Michael Thurman¹; Jerry A.
 Zweigenbaum³; ¹University of Colorado Boulder, Boulder,
 CO; ²MathSpec, Inc., Arlington Heights, IL; ³Agilent
 Technologies, Wilmington, DE
- MP 158 Analysis of Perfluorinated Compounds in Drinking and Waste Water Using Sequential/Parallel Automated Solid Phase Extraction Using EPA Method 537.1; Matthew Falkenstein¹; Tom Hall¹; ¹Fluid Management Systems, Watertown. MA
- MP 159 Performance Trade-offs to Consider when Implementing the High Efficiency, Small Form Factor Ions Sources; Christopher M Rattray¹; Julie Kowalski²; ¹Restek Corporation, Bellefonte, PA; ²Trace Analytics, Spokane, WA
- MP 160 Electron Ionization Mass Spectrometry as Detection System for Supercritical Fluid Chromatography to Increase Identification Power of Semi-Volatile Compounds; Francesca Rigano¹; Roberta La Tella¹; Paola Dugo^{1, 2, 3}; Luigi Mondello^{1, 2, 3}; **Chromaleont SrL, Messina, Italy; **2University of Messina, Messina, Italy; **3University Campus Bio-Medico of Rome, Rome, Italy
- MP 161 Analysis and Quantitation of Polyfluorinated Alkyl Substances (PFAS) in EPA Method 537.1 Using High Resolution Accurate Mass Spectrometry; Brahm Prakash¹; Christopher Gilles¹; Evelyn Wang¹; Jerry Byrne II¹; Yuka Fujito¹; William Lipps²; ¹Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ²Eurofins Eaton Analytical, 750 Royal Oaks Drive, Monrovia, CA

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- MP 162 Monitoring Histone Methyltransferase Activity in Microalgal Extracts by Calorimetric and Mass Spectrometric Approaches; Amanda L. Wong¹; Fabiola Zaragoza¹; Isabella Aguilar¹; Anthony T. Iavarone²; Gary H. Karpen³; James J Pesavento¹; ¹Saint Mary's College of California, Moraga, CA; ²QB3/Chemistry Mass Spectrometry Facility, Berkeley, CA; ³Lawrence Berkeley Laboratory, Berkeley, CA
- MP 163 Approaching Translational Proteomics: Accurate Quantification of >200 Histone Modifications at a Rate of 50 Samples Per Hour; Simone Sidoli¹; Yekaterina Kori¹; Mariana Lopes²; Zuo-Fei Yuan¹; Hee Jong Kim¹; Katarzyna Kulej¹; Kevin A. Janssen¹; Laura M. Agosto¹; Julia P.C. Cunha²; Andrew J. Andrews³; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²Instituto Butantan, Sao Paulo, Brazil; ³Fox Chase Cancer Center, Philadelphia, PA
- MP 164 Dynamics of Histone H3.3K27me3 in Pluripotency and Differentiation of Embryonic Stem Cells Revealed by Stable Isotope Labeling Mass Spectrometry; Yekaterina Kori¹; Simone Sidoli¹; Zuo-Fei Yuan²; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²University of Pennsylvania, Philadephia, PA
- MP 165 Combining Bioorthogonal Chemistry and Proteomic Profiling to Study the PTM-Specific Interactome of Linker Histone H1; Eva Hoellmueller^{1, 2, 3}; Martin Scheffner^{1, 2}; Andreas Marx^{1, 3}; Florian Stengel^{1, 2}; *

- Research School Chemical Biology, Konstanz, Germany; ²Department of Biology, University of Konstanz, Konstanz, Germany; ³Department of Chemistry, University of Konstanz, Konstanz, Germany
- MP 166 Enhanced Detection of 5-methyl-2'-deoxycytidine, 5-hydroxymethyl-2'-deoxycytidine, 5-methylcytidine and 5-hydroxymethylcytidine in Human Urine Using HILIC-MS/MS; Cheng Guo; Zhejiang University, Hangzhou, China
- MP 167 Understanding Epigenome and Proteome Remodeling Caused by Novel Germline Histone H3.3 Mutations during Neurodevelopment; Khadija D Wilson¹; Geoffrey P. Dann¹; Elizabeth J. Bhoj²; Hakon H Hakonarson²; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadephia, PA; ²Children's Hospital of Philadelphia, Philadelphia, PA
- MP 168 Epiproteomic Analysis of Archival Formalin-Fixed Paraffin-Embedded Tumor Tissue for Interrogating Oncogenic Mechanisms in Rare Sarcomas; Dylan Marchione'; Ilyana Ilieva¹; Benjamin A Garcia¹; John B Wojcik¹; ¹The University of Pennsylvania, Philadelphia, PA
- MP 169 Epigenetics of Alzheimer's disease: Global Chromatin Profiling for Monitoring Histone Post-Translational Modifications in Induced Pluripotent Stem Cell Models; James Mullahoo¹; Shawn Egri¹; Tak Ko²; Katherine C. DeRuff¹; Deborah Dele-Oni¹; Xiaodong Lu¹; Malvina Papanastasiou¹; Jennie Young²; Li-Huei Tsai²; Jacob D. Jaffe¹; ¹Broad Institute, Cambridge, MA; ²Massachusetts Institute of Technology, Cambridge, MA
- MP 170 Inhibition of Kinases Reveals Distant Links between Signaling Pathways and the Histone Code; Kevin

 A. Janssen¹; Laura M. Agosto¹; Benjamin A. Garcia¹;

 ¹Perelman School of Medicine University of Pennsylvania, Philadelphia, PA
- MP 171 Use of Microwave-Assisted Acid Hydrolysis for Analysis of Histone Modifications; Shekufeh Zareian¹;

 Michael J Sweredoski¹; Annie Moradian¹; Spiros D Garbis¹;

 Caltech, Pasadena, CA
- MP 172 Proteomic Profiling of Histone Modification Readers
 Using Self-assembled Multivalent Photoaffinity Peptide
 Probes; Kai Zhang¹; Guijin Zhai¹; Xue Bai¹; Shanshan
 Tian¹; ¹Tianjin Medical University, Tianjin, China
- MP 173 Investigation into Altered 5-hmdC Levels in Cancer Cells; Jiekai Yin¹; Yang Yu¹; Yinsheng Wang¹; ¹University of California, Riverside, Riverside, CA
- MP 174 Novel UHPLC-MRM-MS Approach Allows for Absolute Quantification of Histone PTMs in as Little as 20 Minutes; Joseph Cesare¹; Zuofei Yuan¹; Steven Zhao¹; Peder Lund¹; Josue Baeza¹; Yekaterina Kori¹; Simone Sidoli¹; Hee Jong Kim¹; Hyoungjoo Lee¹; Kathryn E. Wellen¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadephia, PA

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- MP 175 Screening of Pesticide Residues in Food by Using High-Throughput GC-MS/MS System with Fast GC Condition; Junkei Kou¹; Kiyotaka Konuma¹; Kouji Okuda²; Kazuaki Murayama¹; Yoshihisa Ueda¹; ¹JEOL Ltd, Akishima, Japan; ²JEOL USA, Inc., Peabody, MA
- MP 176 Quantitation of Multi Residues Antibiotics in Milk Using LC-MS/MS; Chandrasekar Madhappan¹; Dilip Reddy¹; Manoj G. Pillai¹; Jianru Stahl-Zeng²; ¹SCIEX, Gurgaon, India; ²SCIEX, Darmstadt, Germany
- MP 177 Screening of Multiclass Illegal Adulterants in Supplements and Spices via Extracted Common Ion Chromatograms and Neutral Loss Scan by UHPLC-Q/TOF-MS; Jisu Hur¹; Beom-Hee Kim¹; Ki Jung Paeng²; Jongki Hong¹; ¹Kyung Hee University, Seoul, South Korea; ²Yonsei university, wonju, South Korea



- MP 178 Fast and Simlutaneous LC/MS/MS Analysis for Veterinary Drugs in Meat Combined with STQ method;

 Natsuyo Asano¹; Eishi Imoto¹; Mami Okamoto¹; Mikie Shima²; Jun Watanabe¹; ¹Shimadzu corp., Kyoto, Japan;

 ²AiSTI Science Co., Ltd., Wakayama, Japan
- MP 179 Rapid Authentication of Fish Species Using Peptide Probes Isolated in the ProTrap XG; Alan A. Doucette¹; Jessica L. Nickerson¹; Katie Halliday¹; Joshua Turner¹; ¹Department of Chemistry, Dalhousie University, Halifax, NS
- MP 180 Supercritical Fluid Chromatography Coupled to Tandem Mass Spectrometry for the Analysis of Pesticide Residues in Dried Spices; Víctor Cutillas¹; María Murcia-Morales¹; María del Mar Gómez-Ramos¹; Ann-Christin Niehoff²; Stephane Moreau²; Amadeo R. Fernández-Alba¹; ¹European Union Reference Laboratory for Pesticide Residues in Fruits & Vegetables. University of Almeria, Agrifood Campus of International Excellence (ceiA3) Department of Hydrogeology and Analytical Chemistry, Almeria, Spain; ²Shimadzu Europa GmbH, Duisburg, Germany
- MP 181 EU Compliant Routine Quantitative Dioxin, Dioxin-Like PCB and Marker PCB Analysis by GC-MS/MS Using an Advanced Electron Ionisation Source; Dominic Roberts¹; Alexander Schachtele²; Richard Law³; Tim Anderson⁴; Adam Ladak⁴; Cristian Cojocariu³; ¹Thermo Fisher Scientific, Runcorn, United Kingdom; ²European Union Reference Laboratory for Halogenated POPs in feed and food, Freiburg, Germany; ³Thermo Fisher Scientific, Tudor Road, United Kingdom: ⁴Thermo Fisher Scientific, Austin. TX
- MP 182 Comprehensive Identification of Migrating Compounds from Plastic Food Packaging Materials Using High Resolution Accurate Mass Spectrometry; María José Gómez Ramos¹; Anna Bauer²; Ana Lozano²; Amadeo R. Fernández-Alba²; ¹University of Almeria, Almeria, Spain; ¹University of Almeria, Almeria, Spain
- MP 183 Developing a Robust LC-MS/MS Method for the Determination of Anionic Polar Pesticides in a Range of Food Stuffs without Derivatization; Dimple Shah¹; Benjamine Wuyts²; Euan Ross²; Simon Hird²; Keil Brinster¹; Kenneth Rosnack¹; Tammy Hicks¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Wilmslow, United Kingdom
- MP 184 A New Automated Approach for the Determination of Mycotoxins in Cereals Using Online SPE-LC-MS/
 MS; Peter Ringeling¹; Boris Bartolec¹; Cornelis Tump¹;
 Gertjan Merjenburgh¹; Florian Van der Hoeven¹; Jamie Foss²; ¹Spark Holland, Emmen, Netherlands; ²PerkinElmer, Shelton. Connecticut
- MP 185 Multiresidue Analysis of Pesticides in Turmeric (Curcuma longa) Powder by GCMS/MS Using QuEChERS' Extraction Method; Sunil Singh¹; Durvesh Sawant².³; Sanket Anand Chiplunkar²; Nitish Suryawanshi²; Satyendra Thakur¹; Prashant Hase²; Aseem Wagle²; Dheeraj Handique²; Jitendra Kelkar²; Pratap Rasam²; Ajit Datar²; ¹Shimadzu Analytical (India) Pvt. Ltd., New Delhi, India; ²Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ³Ramnarain Ruia College, Mumbai, India
- MP 186 Determination of Coumarin in Electronic Cigarette Liquids by UHPLC Coupled with Isotope Dilution Tandem Mass Spectrometry; Jingcun Wu¹; Erasmus Cudjoe¹; Xia Geng²; Joshua Ye³; Feng Qin¹; ¹PerkinElmer Inc., Woodbridge, ON, ²PerkinElmer Management(Shanghai)Co.,Ltd., Shanghai, China; ³Perkin Elmer Canada, Woodbridge, ON
- MP 187 Application of a Novel Background Exclusion Data-Dependent Acquisition Method to Retrospective Analysis of Target Pesticides and Unknown Xenobiotics in Food; Chunyan Zhu¹; Guo-yin Lai²; Ying Jin¹; Guoqiang Liu³; Niusheng Xu³; Caisheng Wu¹; Mingshe Zhu⁴; ¹Xiamen

- University, Xiamen, China; ²Xiamen Customs, Xiamen, China; ³Thermo Fisher Scientific, Shanghai, China; ⁴MassDefect Technologies, Princeton, NJ
- MP 188 High Throughput Target and Suspect Pesticide Analysis
 Using a New LC/Q-TOF Screener Software; Karen E
 Yannell¹; Kai Chen²; ¹Agilent Technologies, Santa Clara,
 CA; ²Agilent Technologies, Inc., Santa Clara, CA
- MP 189 Up in Vape: What is in my E-Juice Other than Nicotine, Propylene Glycol, and Glycerin; Ron Honnold¹; Matthew Curtis¹; Agilent Technologies, Inc., Santa Clara, CA
- MP 190 Analysis of Patulin in Fruit Juices and Extracts Using Liquid Chromatography Triple Quadrupole Mass Spectrometry; Claudia P.B. Martins¹; Cristina C. Jacob¹; Michael Volny¹; Mary L. Blackburn¹; ¹Thermo Fisher Scientific, San Jose, CA
- MP 191 A Fast, Sensitive and Comprehensive Assay to Quantify Pesticide Residues in Dietary Supplements Using GC/
 MS/MS Coupled with QuEChERS Extraction Method;
 Aihua Liu¹; Abhijit Ghosh¹; Spencer Carter¹; ¹Dyad Labs,
 Salt Lake City, UT
- MP 192 Quantitative Analysis of Aminoglycoside Veterinary Drugs in Solid Milk Products by LC-MS/MS; Benjamin L. Oyler¹; James B. Wittenberg²; Christine H. Parker¹; ¹FDA, College Park, MD; ²Alcohol and Tobacco Tax and Trade Bureau, Beltsville, MD
- MP 193 Decomposition and Species Identification in Salmon by High-Resolution Mass Spectrometry with Multivariate Analysis; Randy Self¹; Michael McLendon¹; Christopher Lock¹; ¹U.S. FDA, Bothell, WA
- MP 194 High Throughput Determination of Multi-Class Toxic Alkaloids in Food by High Performance Liquid Chromatography-Tandem Mass Spectrometry; Guoying Lai¹; Lijian Wu¹; Dunming Xu¹; Zhigang Zhang¹; Meiling Lu²;

 ¹Technique Center of Xiamen Customs, Xiamen, China;
 ²Agilent Technologies (China) Limited, Beijing, China
- MP 195 Development and Validation of a New Sensitive and Rapid UPLC-MS-MS Method to Determine Acrylamide in Coffee; Yilong Zheng¹; Zhitian Zhang¹; Jillian O'connell¹; Junsuo Li¹; ¹Intertek, Champaign, IL
- MP 196 Characterization of Farmer's Cheese with LC-MS/(MS) for Authenticity Purposes; Henk W. Gerritsen¹; Robert Jan A.N. Lamers²; Martin Alewijn¹; Marco H. Blokland¹; Monique G.E.G. Bremer¹; Ioana M. Barbu¹; ¹RIKILT Wageningen UR, Wageningen, Netherlands; ²Abundnz B.V., Woerden, Netherlands
- MP 197 Analysis of Odor Components in Fish by Shimadzu Off-Flavor System; yong wang¹; Jun Fan²; ¹Shimadzu (China) Co.,Ltd. Beijing Branch, Beijing, China; ²Shimadzu (China) Co., Ltd. Shanghai Branch, Shanghai, China
- MP 198 Off-Flavor System of Shimadzu Analyzes the Odor Components in Edible Oil; Liu Xiaohua; Shimadzu (China) Co., Ltd.,, Guangzhou, China
- MP 199 Discrimination of Soybean Oil and Olive Oil by Benchtop Linear MALDI-TOF; Dun Junling; Shimadzu (China) Co., Ltd., Shanghai, China
- MP 200 Toxin Profiling in Fish Samples from the Indian Ocean Implicated in Ciguatera-Like Poisoning; Ann Abraham¹; Katherine Baltzer¹; Kathleen El Said¹; Kyle Andrews¹;

 ***Joivision of Seafood Science and Technology, FDA, Dauphin Island, AL

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MP 201 A High Profile: Detection and Identification of Synthetically-derived Psychoactive Material through Sorbent-Facilitated Headspace Mass Spectral Analysis and Chemometrics; Meghan G. Fogerty¹; Rabi A. Musah¹; ¹University at Albany-SUNY, Albany, NY



MP 203 Fast Screening of Explosives by Direct Analysis in Real Time Mass Spectrometry; Mengliang Zhang¹; Virginia L Benefield¹; <u>Jared Frazier</u>¹; ¹Middle Tennessee State University, Murfreesboro, TN

MP 204 Assessing Peptide Profiling Reproducibility of Single Source Human Head Hair; Maria Lawas¹; Katherine F. Jones¹; Katelyn E. Mason²; Deon S. Anex²; Traci L. Carlson¹; Luisa V. Forger¹; Brian A. Eckenrode³; Bradley Hart²; Joseph Donfack³; ¹Counterterrorism and Forensic Science Research Unit, Visiting Scientist Program, Federal Bureau of Investigation Laboratory Division, Quantico, VA; ²Forensic Science Center, Lawrence Livermore National Laboratory, Livermore, CA; ³Counterterrorism and Forensic Science Research Unit, Federal Bureau of Investigation Laboratory Division, Quantico, VA

MP 205 Analytical Separation of Isomeric U-Series Compounds Using Liquid Chromatography Tandem Mass Spectrometry; Melissa F. Fogarty¹; Amanda L.A. Mohr²; Francis X. Diamond³; Barry K Logan^{2, 3}; ¹Center for Forensic Science Research and Education, Willow Grove, PA; ²CFSRE, Willow Grove, PA; ³NMS Labs, Willow Grove, PA

MP 206 Liquid Chromatography-High-Resolution Mass Spectrometry for the Determination of Cannabinoids, Cannabinoid-Metabolites, and Amphetamine-Type Stimulants in Human Hair; Sunjoo Kim¹; Yongho Shin¹; Won-gu Choi¹; Hye Suk Lee¹; ¹The Catholic University of Korea, Buchen, South Korea

MP 207 Comparing the Efficiencies of Common Extraction Methods For Explosive Residues Off Various Surfaces Using Gas Chromatography/
Mass Spectrometry; Shannon Lamy¹; Alyssa Marsico¹;

¹University of New Haven, West Haven, CT

MP 208 On-Site Identification of Forensic Evidence by Novel Coiled Micro-Extraction Sampling Device for Portable GC/MS Instrumentation; Zachary E Lawton¹; Leah Rynearson²; Marisa San Antonio²; Sara M Davis²; Sarah Goda²; Meghann McMahon³; Pauline Leary⁴; Koby Kizzire²; Brooke Kammrath²; ¹PerkinElmer, Shelton, CT; ²University of New Haven, West Haven, CT; ³Wisconsin State Police, Milwaukee, WI; ⁴Federal Resources, Stevensville, MD

MP 209 High Resolution Designer Drug Screening Using a High-Sensitivity Q-TOF Mass Spectrometer and an Extended Tandem Mass Spectrum Library; Jeff Dahl¹; Rachel Lieberman²; Joseph Kahl³; Alex Giachetti³; ¹Shimadzu, Columbia, MD; ²Shimadzu Scientific Instruments, Inc., Columbia, MD; ³Miami-Dade Medical Examiner Department, Miami, FL

MP 210 Identification of Human Haemoglobin Variants through Advanced Forensic Mass Spectrometry of Blood;

Cameron Heaton¹; Laura Cole¹; Richard R McColm²; Jason Eyre³; Simona Francese¹; ¹BMRC, Sheffield Hallam University, Sheffield, United Kingdom; ²DSTL, Porton Down, Salisbury, United Kingdom; ³BMS Haemolysis Lab, Haematology Department, Sheffield Teaching Hospital, Sheffield, United Kingdom

MP 211 An Automated Ignitable Liquid Analysis Workflow for Forensic Laboratories; Troy J Ernst¹; Scott J Campbell²; John H Moncur²; ¹Michigan State Police - Grand Rapids Laboratory, Grand Rapids, MI; ²SpectralWorks Limited, Runcorn, United Kingdom

MP 212 Peptide Spectral Libraries for Purified Ricin and Forensically Relevant Castor Seed Extracts; Isabelle G. O'Bryon¹; Abigail E. Tucker¹; Brooke L.D. Kaiser¹; Eric Merkley¹; Karen L. Wahl¹; ¹Pacific Northwest National Laboratory, Richland, WA

MP 213 A method for Simultaneous Targeted and Non-Targeted LC-HRMS/MS Drug Screening in Forensic Toxicology; <u>Jason E Schaff</u>¹; Preston C Lowe¹; Madeline A Montgomery¹; Cynthia L Morris-Kukoski¹; ¹FBI Laboratory Chem Unit, Quantico, VA

MP 214 Use of Image Quality Scores to Determine Fingerprint Age in MALDI imaging; Madison L Thomas¹; Paige Hinners¹; Young Jin Lee¹; *Iowa State University, Ames, IA

MP 215 Thread Spray Mass Spectrometry for Direct Analysis of Hemoglobin in Whole Blood; Sierra Jackson¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH

MP 216 Rapid and Quantifiable Screening Method for 64 Drugs in Human Blood by Direct Probe Ionization/Tandem Mass Spectrometry (DPiMS); Tasuku Murata¹; Shinji Funatsu¹; Koretsugu Ogata¹; Hitoshi Tsuchihashi²; Yumi Hayashi³,⁴; Kei Zaitsu²,⁴; ¹Shimadzu Corporation, Kyoto, Japan; ²Department of Legal Medicine and Bioethics, Nagoya University Graduate School of Medicine, Nagoya, Japan; ³In Vivo Real-Time Omics Laboratory, Institute for Advanced Research, Nagoya University, Nagoya, Japan; ⁴Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan

MP 217 Automated immunoaffinity purification of large peptides followed by LC-MS(/MS) analysis; Monica Mazzarino¹; Filippo Martinelli¹; Marta Senofonte¹; Xavier de la Torre¹; Francesco Botrè¹.²; ¹Antidoping laboratory, Rome, Italy; ²Department of Experimental Medicine, "Sapienza" University of Rome, Rome, Italy

MP 218 Use of IRMPD Spectroscopy to Characterize Derivatives of Aldehydes Considered Emerging Explosive Threat Compounds; Connor J Graca¹; Luke Metzler¹; Theodore Corcovilos¹; Giel Berden²; Jonathan Martens²; Jos Oomens².³; Michael Van Stipdonk¹; ¹Duquesne University, Pittsburgh, PA; ²Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Facility, Nijmegen, Netherlands; ³University of Amsterdam, Amsterdam, Netherlands

MP 219 Q-Exactive Parameter Optimization for Maximum Signal Intensity when Using LDTD; Sarah Demers¹; Serge Auger¹; Jean Lacoursière¹; Pierre Picard¹; ¹Phytronix Technologies, Quebec, QC

MP 220 Evaluation of Micro Volume Sample Preparation
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Eishi Imoto¹; Yujin Natori²; Jun Watanabe¹; Hitoshi
Tsuchihashi²; Kei Zaitsu²; Ichiro Hirano¹; ¹Shimadzu corp.,
Kyoto, Japan; ²Department of Legal Medicine & Bioethics,
Nagoya University Graduate School of Medicine, Nagoya,
Japan

MP 221 Counterfeit Medicines Identification: A Comparison of Simplified APCI and EI Based MS Methods; Sangeeta Tanna¹; Rachel Armitage¹; John Ogwu¹; Graham Lawson¹;

¹De Montfort University, Leicester, United Kingdom

MP 222 Analysis of Cosmetic Products for Evidentiary Value via Paper Spray and Paper Cone Spray Ionization-Mass Spectrometry; Abigail M. Poehls¹; Shahnaz Mukta¹; Christopher C. Mulligan¹; *Illinois State University, Normal II

MP 223 Rapid Profiling of Authentic Forensic Evidence via Paper Cone Spray Ionization Employed on Portable MS Instrumentation; Ashley R. Stelmack¹; William L. Fatigante¹; Shahnaz Mukta¹; Christopher C. Mulligan²;

'Illinois state university, Normal, IL; 'Illinois State University, Normal, IL



- MP 224 The Performance of Nanoparticle-Modified Paper Substrates Employed as Surface Transfer Swabs for Combined SERS and PSI-MS Investigation; Trevor J. McDaniel¹; Noah W. McClurg¹; William L. Fatigante¹; Jun-Hyun Kim¹; Jeremy D. Driskell¹; Christopher Mulligan²;

 ¹Illinois state university, Normal, IL; ²Illinois State University, Normal, IL
- MP 225 Electron Ionization (EI) Fragmentation Studies of Reduced Bipyridyl Herbicides: Towards a Reliable Quantitative Approach for Postmortem Samples;

 Carlos González¹; Marielos Arias¹; Diego Arias¹; ¹Sección de Toxicología, Departamento de Ciencias Forenses, San Joaquin de Flores. Costa Rica
- MP 226 Chemical Differentiation of CITES-Protected Dalbergia Timber Using DART/QToF and TSP/GC/MS; Dayue Shang¹; Pamela Brunswick¹; Jeffrey Yan¹; Joy Bruno¹; Philip Evans²; Graham Van Aggelen¹; Marcus Kim³; ¹Environment and Climate Change Canada, North Vancouver, BC; ²University of British Columbia, Vancouver, BC; ³Agilent Technologies, Inc., Wilmington, DE
- MP 227 Simultaneous Analysis of 260 Pesticides in Human Urine Using Scaled-Down QuEChERS Approach and Tandem Mass Spectrometry; Yongho Shin¹; Sunjoo Kim¹; Won-gu Choi¹; Hye Suk Lee¹; 'The catholic university of korea, Buchen, South Korea
- MP 228 Application for Forensic Analysis: Discrimination of Fibers Using Trace Organic Additive and Pyrolyzate Marker; Chikako Takei¹; Kenichi Yoshizawa¹; Shinji Azuma²; ¹BioChromato, Inc., Fujisawa, Japan; ²BioChromato USA, San Diego, California
- MP 229 Fragmentation Pathways of α-pyrrolidinophenone
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 Zachary J. Sasiene²; Younis Abiedalla³; C. Randall
 Clark³; Glen P. Jackson¹.²; ¹Department of Forensic and
 Investigative Science, West Virginia University, Morgantown,
 WV; ²C. Eugene Bennett Department of Chemistry, West
 Virginia University, Morgantown, West Virginia; ³Department
 of Drug Discovery and Development, Harrison School of
 Pharmacy, Auburn University, Auburn, AL

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- MP 230 Peptide Sequence Influence on the Differentiation of Valine and Norvaline by Hot Electron Capture Dissociation; Wendy Zhong¹; Zhidan Liang²; Xiang Yu³;

 ¹Merck, Rahway, NJ; ²Amgen Inc., Boston, MA; ³Merck & Co., West Point, PA
- MP 231 Analysis of Phenetole in its First Excited State and Ionic Ground State: Effects of the Side Chain; Niklas Helle¹; Tassilo Muskat¹; Jurgen Grotemeyer¹; ¹Christian-Albrechts-Univ, Kiel, Germany
- MP 232 Surface-Induced Dissociation of Protein Complexes in an FT-ICR Mass Spectrometer: Experimental and Simulated Performance; Dalton Snyder^{1, 2}; Jing Yan³; Vicki Wysocki^{1, 2}; ¹The Ohio State University, Columbus, OH; ²Resource for Native Mass Spectrometry Guided Structural Biology, Columbus, OH; ³Washington University, St. Louis
- MP 233 Gas-Phase Dissociation of Imidazolium and Benzimidazolium Cations: Effects of Substituent Identity; Maleesha De Silva¹; Amanda Patrick¹; Mississippi State University, Starkville, MS
- MP 234 High Energy Collision-Induced Dissociation of Biological Peptides; Xinyao Jing¹; Carolyn J Cassady¹;
 ¹The University of Alabama, Tuscaloosa, AL
- MP 235 Comparison of Reagent Gas for Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptides and Oligosaccharides; Zachary J. Sasiene¹; Praneeth M. Mendis¹; Glen P. Jackson^{1, 2}; ¹C. Eugene Bennett Department of Chemistry, West Virginia University,

- Morgantown, WV; ²Department of Forensic and Investigative Science, West Virginia University, Morgantown, WV
- MP 236 Gas Phase Reactions of Heptamethine Cyanine
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 ¹Christian-Albrechts-Univ, Kiel, Germany
- MP 237 Structural Characterization of Intact Proteins Using Electron Capture Dissociation within an Ion Mobility Enabled TOF; Jonathan P. Williams¹; Lindsay J. Morrison²; Chris Hughes³; Jeffery M. Brown³; Joseph S. Beckman⁴; Valery G. Voinov⁴; ¹Waters Corporation, Wilmslow, United Kingdom; ²Waters Corporation, Beverly, MA; ³Waters Corporation, Wilmslow, United Kingdom; ⁴e-Msion Inc., Corvallis, OR
- MP 238 A Comparison of Negative Ion Radical-Driven
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 J. Cassady¹; ¹The University of Alabama, Tuscaloosa, AL
- MP 239 Multiple-Stage Tandem Mass Spectrometry of Peptide Radical Ions in the Omnitrap Platform; Mariangela Kosmopoulou¹; Dimitris Papanastasiou¹; Roman Zubarev²;
 - ¹Fasmatech, Athens, Greece; ²Karolinska Institutet, Stockholm, Sweden
- MP 240 Oligosaccharides Suppression of Metal-Salt Induced Adducts Using Electrospray-Ionization and SORI-CID Fragmentation; Volker Iwan¹; Tassilo Muskat¹; Jurgen Grotemeyer¹; ¹Christian-Albrechts-Univ, Kiel, Germany
- MP 241 Formation of Non-Zwitterionic π-Centered Glycylglycyltryptophan Radical Cations during the Gas-Phase Dissociation of Zwitterionic Copper(II)–GXW Complexes: Structural,Mechanistic, and Photodissociation Spectroscopic Inves; Yinan Li¹; mengzhu li¹; Chi Kit Andy Siu²; Jonathan Martens³; Jos Oomens³; Keung Ivan Chu¹; ¹Department of Chemistry, The University of Hong Kong, Hong Kong, Hong Kong, Hong Kong, Hong Kong, Hong Kong; ¹Pepartment of Chemistry, City University of Hong Kong, Hong Kong, Hong Kong; ³FELIX Laboratory, Institute for Molecules and Materials, Nijmegen, Netherlands
- MP 242 Isomeric α-Carbon– and π–Centered
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 Mengzhu Li¹; Yinan Li¹; Chi Kit Andy Siu²; Jonathan
 Martens³; Jos Oomens³; Keung Ivan Chu²; ¹Department of
 Chemistry, The University of Hong Kong, Hong Kong, Hong
 Kong, ¹Department of Chemistry, City University of Hong
 Kong, Hong Kong, Hong Kong; ³FELIX Laboratory, Institute
 for Molecules and Materials, Nijmegen, Netherlands
- MP 243 Understanding the Perplexing and Interesting Pathways of Peptoid Fragmentation; Yadwinder Singh Mann¹; Yuntao Zhang¹; Jianhua Ren¹; ¹University of the Pacific, Stockton, CA
- MP 244 Accelerating Ion-Molecule Reactions Using
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- MP 245 The HDX Approach to Evidence the Stepwise Character of Controlled Enantioselective Reduction of Copper (II) Complexes with Polar Amino-Acids, Application; Ekaterina Dariy¹; Annelaure Damont²; Denis Lesage³; Sandra Alves³; Alain Perret¹; Yves Gimbert⁴; François Fenaille²; Jean-Claude Tabet²-³; ¹Génomique métabolique, Genoscope, Institut François Jacob, CEA, CNRS, Univ Evry, Université Paris-Saclay, Evry, France; ²SPI, LEMM, CEA, INRA, Université Paris Saclay, Gif-sur-Yvette, France;



- ³CNRS, Institut Parisien de Chimie Moléculaire, Sorbonne Universite, IPCM, Paris, France; ⁴Université Grenoble Alpes and CNRS, DCM (UMR 5250), Grenoble, France
- MP 246 Novel Cα-Cβ Cleavage of N-terminal Phenylalanine Residues of Tyrosine-Containing Peptide Radical Cations: Structural, Mechanistic, and Photodissociation Spectroscopic Ivestigations; Wai Kit Tang¹; Xiaoyan Mu²; Naiping Dong²; Jonathan Martens³; Daniel Michael Spencer²; Mengzhu Li²; Jos Oomens³; Chi Kit Andy Siu¹; Ivan K. Chu⁴; ¹Department of Chemistry, City University of Hong Kong, Hong Kong
- MP 247 Hydrogen Atom Attachment to the Histidine and Tryptophan Containing Peptides in Gas-Phase; <u>Daiki Asakawa</u>¹; Hidenori Takahashi²; Shinichi Iwamoto²; Koichi Tanaka²; ¹AIST, Tsukuba, Japan; ²Shimadzu corp., Kyoto, Japan
- MP 248 Trends from >10,000 Assigned Fragment Ions in Native Top-Down Mass Spectrometry; Ashley Ives¹; Henrique Seckler¹; Ryan T Fellers¹; Luis F. Schachner²; Steven Matthew Patrie¹; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²Northwestern University, Evanston, IL
- MP 249 Charge Carrier and Charge State Effects in Free Radical Initiated Peptide Sequencing (FRIPS); <u>Eunju Jang</u>¹; Gabriela Grigorean¹; Nicholas B. Borotto¹; Kristina Hakansson¹; ¹University of Michigan, Ann Arbor, MI
- MP 250 Implementation and Characterization of an RF Ion Funnel-Based Surface-Induced Dissociation (SID) Device on a Q-IM-TOF Platform; Benjamin J Jones¹.

 ²; Alyssa Q. Stiving^{1,2}; Joshua D. Gilbert¹; Zachary L. VanAernum^{1,2}; Sophie R. Harvey^{1,2}; ¹The Ohio State University, Columbus, OH; ²Resource for Native Mass Spectrometry Guided Structural Biology, The Ohio State University. Columbus. OH
- MP 251 Evidence for Reversible Internal Hydride/Deuteride Transfers from Sodiated Deprotonated Fructose-6-Phosphate and Arginine Complex with Solvated Salt Structure; Ekaterina Dariy¹; Sandra Alves²; Yves Gimbert³; Alain Perret¹; François Fenaille⁴; Jean-Claude Tabet².⁴; ¹Génomique métabolique, Genoscope, Institut François Jacob, CEA, CNRS, Univ Evry, Université Paris-Saclay, Evry, France; ²CNRS, Institut Parisien de Chimie Moléculaire, Sorbonne Universite, IPCM, Paris, France; ³Université Grenoble Alpes and CNRS, DCM (UMR 5250), Grenoble, France; ⁴SPI, LEMM, CEA, INRA, Université Paris Saclay, Gif-sur-Yvette, France
- MP 252 An Orthoester Derivatization Strategy for the Structure Elucidation of Vicinal Diols; Renzo A Samame¹; Chengli Zu¹; Daniel Knueppel¹; Jeffery Gilbert¹; ¹Corteva Agriscience, Indianapolis, IN
- MP 253 Collision-Induced Dissociation of Proton-Bound Base Pairs of 1-Methylcytosine with N-Methylguanines; Sang Yun Han¹; Jeong Ju Park¹; ¹Gachon University, Seongnam, South Korea
- MP 254 Dissociation Studies of Astrobiologically Relevant
 Nucleobase Anions; Alexandra A Dobbs¹; Bryan E Metz¹;
 Diego T Novoa¹; Aaron R Wegener²; Callie A Cole¹; ¹Fort
 Lewis College, Durango, CO; ²Texas A&M University,
 College Station, TX
- MP 255 Fragmentation of Deprotonated 7- & 9-Methylguanine in an Astrochemical Context; Diego T. Novoa¹; Aaron R. Wegener¹.²; Alexandra A. Dobbs¹; Callie A. Cole¹; ¹Fort Lewis College, Durango, CO; ²Texas A&M University, College Station, TX

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 Woods¹; ¹NIH/NIDA-IRP, Baltimore, MD
- MP 257 A Gas-phase Reactivity Study of Distonic Phenylcarbenes; Erlu Feng¹; Zaikuan Yu¹; Jacob Milton¹; Thinh Hoang¹; Hilkka Kenttämaa¹; ¹Purdue University, West Lafavette. IN
- MP 258 Surface Interaction of Selected Transition Metals and Semiconductors with H2 Plasma Generated Species;

 Joshua Rieger¹; Kai Kroll¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of Wuppertal, Wuppertal, Germany
- MP 259 Charge Inversion of Protein Cations via Gas-Phase Ion/
 Ion Reactions with Hyaluronic Acid Anions; Hsi-Chun
 Chao¹; Mack Shih¹; Abdirahman M. Abdillahi¹; Scott A
 McLuckey¹; ¹Purdue University, West Lafayette, IN
- MP 260 Extracting Mass Information from Large Biomolecules via Ion-Ion Reaction Chemistry; Abdirahman M Abdillahi¹; Nan Wang¹; David J. Foreman¹; Hsi-Chun Chao¹; Kenneth W Lee¹; Scott A McLuckey¹; ¹Purdue University, West Lafayette, IN
- MP 261 Characterization of Activated Ion-Electron Transfer Dissociation (AI-ETD) Reaction Kinetics; Trenton M.

 Peters-clarke¹; Benton J Anderson¹; Jean M Lodge²; Dain R Brademan¹; Kevin L Schauer².³; Michael S Westphall²; Joshua J Coon¹.².4.5; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; ²Genome Center of Wisconsin, Madison, WI; ³Thermo Fisher Scientific, West Palm Beach, FL; ⁴Department of Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI; ⁵Morgridge Institute for Research, Madison, WI
- MP 262 Gas-phase Photodissociative Crosslinking of Diazirine-Modified Adrenaline with the Binding Motif of beta-2 Adrenergic Receptor; Yang Liu¹; Shu R. Huang¹; Frantisek Turecek¹: 'University of Washington. Seattle. WA
- MP 263 Thermochemistry of the Ion-Molecule Reactions of Uranium Fluoride Species by Guided Ion Beam Tandem Mass Spectrometry; Amanda Bubas¹; Cameron J. Owen¹; Peter B. Armentrout¹; ¹University of Utah, Salt Lake City, UT

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- MP 266 Nucleophilic Substitution in the Gas Phase by an Unlikely Nucleophile, CI-, following Anion Attachment; Gabriel Gaiffe¹.²; Maxime C. Bridoux²; Jane S. Murray³; Peter Politzer³; Philippe Maître⁴; Richard B. Cole¹; ¹Sorbonne Université, Faculté des Sciences et Ingénierie, Paris, France; ²Commissariat à l'Energie Atomique DAM, Bruyères-le-Châtel, France; ³University of New Orleans, Department of Chemistry, New Orleans, Louisiana; ⁴Université Paris-Sud, Laboratoire de Chimie Physique, Orsay, France
- MP 267 Combining Ultrahigh-Resolution Ion-Mobility
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- MP 268 An IRMPD Spectroscopic and Computational Study of Gaseous Protonated and Metal Cationized Guanine-Cytosine Base Pairs and Guanine-Containing Mismatches; Ruodi Cheng¹; Jonathan Martens²;



- Estelle Loire³; Travis Fridgen⁴; ¹Memorial University of Newfoundland, ST JOHN'S, NL; ²Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Facility, Nijmegen, Netherlands; ³Universite Paris Sud, Orsay, France; ⁴Memorial University of Newfoundland, St. John's, NL
- MP 269 Shining Light on Gas-Phase lons to Study Solvent
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 University of Toronto, Toronto, ON
- MP 270 Automated UV Action Spectroscopy on a Modified 3D Ion Trap MS for Structural Analysis of DNA Cation-Radicals; Andy Dang¹; James Gladden¹; Yue Liu¹; Brandon Mozzone¹; Frantisek Turecek¹; ¹University of Washington, Seattle. WA
- MP 271 Proton and Radical Transfers in Hydrogen-Rich DNA Tetranucleotide Cation Radicals: An Experimental and Computational Study; Yue Liu¹; Shu R Huang¹; Yang Liu¹; Frantisek Turecek¹; ¹University of Washington, Seattle, WA
- MP 272 Measurement of the Asymmetric UO22+ Stretching Frequency for [UVIO2(X)3]- (X = F, CI, Br and I) Species Using IRMPD Spectroscopy; Irena Tatosian¹; Luke Metzler¹; Connor J Graca¹; Theodore Corcovilos¹; Jonathan Martens²; Giel Berden²; Jos Oomens²; Michael Van Stipdonk¹; *IDuquesne University, Pittsburgh, PA; *2Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Facility, Nijmegen, Netherlands
- MP 273 Raman Spectroscopy of Solutes in Nano-electrospray Ionization (nESI) Spray Plumes and Neutral Droplets;

 Brett Michael Marsh¹; Denilson de Oliveira¹; Kiran Iyer¹;

 Grace Olivia Capek¹; Dor Ben-Amotz¹; R. Graham Cooks¹;

 ¹Purdue University. West Lafayette. IN
- MP 274 The Insecticide Imidacloprid and some its Fragmentation Products: An IRMPD Spectroscopic and Computational Study; Kelsey J Menard¹; Jonathan Martens²; Travis Fridgen¹; ¹Memorial University of Newfoundland, St. John's, NL; ²FELIX Laboratory, Institute for Molecules and Materials, Nijmegen, Netherlands
- MP 275 Characterizing Single-TurnAlpha Helices via Cold Ion Spectroscopy of Model Compounds; John Lawler¹; Tim Hill²; David Fairlie²; Scott A McLuckey¹; Timothy S. Zwier¹; ¹Purdue University, West Lafayette, IN; ²University of Queensland, St. Lucia, Australia

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- MP 277 Investigation of the C-H Activation Reactivity of Graphene-Supported Single-Atom Catalyst Models in the Gas Phase; Michael Borrome¹; Scott Gronert¹.

 2; 'Virginia Commonwealth University, Richmond, VA; 'University of Wisconsin-Milwaukee, Milwaukee, WI 53211
- MP 278 Mechanistic Study of C-H Activation of Alcohols and Ethers by a Cationic Iridium(III) Dichloride Phenanthroline Complex; Rozalie Corea¹; Scott Gronert¹. 2; ¹Virginia Commonwealth University, Richmond, VA; ²University of Wisconsin-Milwaukee, Milwaukee, WI
- MP 279 Using the Phenanthroline as the Chelator to Develop a Method for Fast-Screening of Metal Ions by ESI Mass Spectrometry; Pai-Chi Syue¹; Kuok-Fai Li¹; Bo-Yi Zhang¹; Hui-Ling Chiang¹; Ching-yi Lien¹; Kuo-Lung Ku¹; ¹National Chiayi University, Chiayi City, Taiwan

- MP 280 Utilization of Gas-Phase Tranistion Metal Oxide
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 ¹Northern Illinois University, Dekalb, IL; ²University of
 Melbourne, Melbourne, Australia
- MP 281 Decarboxylative Coupling Reactions Catalyzed by First-Row Transition Metal Complexes with Crown Ether;

 Elettra L. Piacentino¹; Fotis Pappas Pappas²; Kostantinos Pappas²; Michael Lesslie²; Thomas M. Gilbert²; Richard A. J. O'hair³; Victor Ryzhov²; ¹Northern Illinois University, Dekalb; ²Northern Illinois University, Dekalb, IL; ³University of Melbourne, Melbourne, Australia
- MP 282 Gas-Phase Study of C-N Coupling Reactions Catlayzed by Transition Metal Complexes; Kevin E Parker¹; Victor Ryzhov²; ¹Northern Illinois University, DeKalb, IL; ²Northern Illinois University, Dekalb, IL

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- MP 284 Quasi-Harmonic Approximation for the Thermochemical Stability of Small Proton Bound Clusters A Theoretical Study; Alexander Haack¹; Walter Wissdorf¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of Wuppertal, Wuppertal, Germany
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- MP 287 Enhanced Protonation of Amino Acids and Dipeptides Using Cr(III): Developing the Basis for Proteomics Studies; Rudradatt Persaud¹; Carolyn J Cassady¹; David A. Dixon¹; ¹The University of Alabama, Tuscaloosa, AL
- MP 288 Computational Prediction of Gas-Phase Acidities for Small Acidic Peptides and their Amides; Ashley S McNeill¹; Can Cui¹; Justin M Adam¹; William C Jackson¹; Michael A Raddatz¹; Carolyn J Cassady¹; David A Dixon¹;

 ¹The University of Alabama, Tuscaloosa, AL
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- MP 293 Which Spectra Should We Pick? Limitations of the Extracted Ion Chromatogram in HDX-LC-MS Analysis;

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- MP 295 An Algorithm for Calculation of the Protein Fraction Synthetic Rate Using 2 Time Points; Sergei Ilchenko¹; Andrew Haddad¹; Kwangwon Lee¹; Probodh Sadana¹; Rovshan Sadygov²; Takhar Kasumov¹; ¹Northeast Ohio Medical University, Rootstown, OH; ²University of Texas Medical branch. Galverston. TX
- MP 296 Single-Residue Resolution of HX-MS Obtained Using ExD in a Q-ToF; Joseph C. Meeuwsen^{1, 2}; Yury V. Vasil'ev^{1, 2}; Valery G. Voinov^{1, 2}; Nathan I. Lopez^{1, 2}; Joseph S. Beckman^{1, 2}; †e-MSion, Inc., Corvallis, OR; ²Oregon State University, Corvallis, OR
- MP 297 Sparse Representation for Hydrogen Exchange Mass Spectrometry (HX-MS) Data Using LASSO Optimization; Yuqi Shi¹; Jarod Hart¹; David D Weis¹; ¹University of Kansas, Lawrence, KS
- MP 298 HDX-MS as a Tool for Probing Conformational Stability in Industrial Applications; <u>Daniel W Pedersen</u>^{1, 2}; Jeppe C Mouritsen¹; Christian I Jørgensen¹; Thomas J D Jørgensen²; *1Novozymes A/S, Bagsværd, Denmark; *2University of Southern Denmark, Odense, Denmark
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- MP 302 Refinement of an Algorithm for High-Resolution HDX-MS Data Analysis Combined with HaDeX; Dominik
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- MP 303 **deMix: Automated HDX-MS Data Analysis Reveals**Conformational Isomer Proteins; Seungjin Na¹; Jae-Jin
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 ¹Hanyang University, Seoul, South Korea; ²Ewha Womans
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- MP 304 Characterization of Conformational Differences between Coexisting Protein States Using Differential Hydrogen/Deuterium Exchange during Proteoform Separation; Yue Shen¹; Xiuxiu Zhao¹; Guanbo Wang¹; David D. Y. Chen²; ¹Nanjing Normal University, Nanjing, China; ²University of British Columbia, Vancouver, BC
- MP 305 SelexION® Differential Mobility Hardware Enables Facile, Tunable Gas-Phase Hydrogen-Deuterium Exchange for Small Molecules and Proteins; Brendon Seale^{1, 2}; Yves Le blanc²; ¹York University, Toronto, ON; ²SCIEX, Concord, ON
- MP 306 Can Spray Solvent Conductivity Modify the Exchange Time for In-Electrospray H/D Exchange of Carbohydrate-Metal Adducts?; Tara Liyanage¹; Alexis N. Edwards¹; Elyssia S. Gallagher¹; ¹Baylor University, Waco, TX
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 ¹University of Massachusetts, Amherst, MA
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- MP 309 20S Proteasome Complex Structure Conformation and Dynamics Study by Hydrogen Deuterium Exchange Mass Spectrometry; Shaunak Paval¹; Terry Zhang²; Rosa Viner³; Albert Konijnenberg⁴; David C Schriemer¹; Andreas Huhmer³; ¹University of Calgary, Calgary, AB; ²ThermoFisher, San Jose, CA; ³Thermo Fisher Scientific, San Jose, CA; ⁴Thermo Fisher Scientific, Eindhoven, Netherlands

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- MP 311 LC/GC Technical Replicates Data Multiplexing
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 Laure Menin⁵; Yury O. Tsybin¹; ¹Spectroswiss, Lausanne,
 Switzerland; ²IFP Energies nouvelles, Solaize, France;
 ³Swiss Federal Laboratories for Materials & Technology
 (EMPA), Dübendorf, Switzerland; ⁴Ecole Polytechnique
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 Polytechnique Fédérale de Lausanne, Lausanne,
 Switzerland
- MP 312 High Accuracy Self-Calibration Method for High Resolution Mass Spectra; Boris Kozlov¹; Vasily Makarov²; Jeffery M. Brown¹; Keith Richardson¹; ¹Waters Corporation, Wilmslow, United Kingdom; ²MS Consulting, Bar, Montenegro
- MP 313 Investigation of Human Embryo Culture Media Using a Quadrupole Time-Of-Flight (Q-TOF) Mass Spectrometer;

 Helen Hao¹; Evelyn H Wang²; Jerry Byrne II²; Jennifer Davis²; Katie Pryor²; Christopher Gilles²; ¹Shimadzu Scientific Instruments, Inc., Columbia, MD; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland



- MP 314 A Chroma Change Study of Acid-Blue 9 Dye with PA12 Powder by UPLC-PDA-HRMSn; Stone Ouyang¹; Mark Kowalski¹; Ali Emamjomeh¹; Jesiska Tandy¹; ¹Hewlett-Packard Company, San Diego, CA
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- MP 316 Quantitation of 4,4'-Methylenedianiline and Characterization of Unknown Leachables in Simulated Sweat Migrations Using Liquid Chromatography Quadrupole-TOF Mass Spectrometry; Noelle Elliott1; Marshall Henry1; Kate Willis1; 1Intertek, Allentown, PA
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- MP 318 High Resolution Quadrupole Mass Spectrometry
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 CMS, Pittsburgh, PA
- MP 319 Evaluation of Orbitrap and Time-of-Flight Mass
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- MP 320 Extractables & Leachables Analysis Using the Hi-Resolution Accurate Mass GC/QTOF; Thomas S Talwar¹; Matthew Curtis²; ¹Agilent Technologies, Inc., Wilmington, DE; ²Agilent Technologies, Inc., Santa Clara, CA
- MP 321 Molecular Structure Study of Polyether Polyols by UPLC-QTOF MS; Junyan Liu; Sinopec Shanghai Research Institute of Petrochemical Technology, Shanghai, China
- MP 322 Simultaneous Profile and Determination of Statin Composition in Various Media and Biological Matrices by Accurate Mass and High Resolution LC-QTOF-MS; Wei Chen¹; Patrick Lin¹; Bih Hsu¹; Zicheng Yang²; Xuejun Peng²; Guillaume Tremintin²; ¹Pharmout Laboratory, Fremont, CA; ²Bruker Daltonics, San Jose, CA
- MP 323 Critical Comparison of Fourier Transform Mass Spectrometry Platforms for Metabolite Elemental Formula Elucidation Purposes; <u>Danning Huang</u>¹; Marcos Bouza Areces¹; David Gaul¹; Arthur S. Edison²; Facundo M. Fernandez¹; ¹Georgia Institute of Technology, Atlanta, GA; ²University of Georgia, Athens, GA
- MP 324 Sensitive Perfluoroalkyl Substance (PFAS) Screening Using High Resolution Accurate Mass Spectral Library;

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- MP 325 Untargeted Metabolomics and 13C-Labeling in Tissue Culture for Identifying Unknown Human Biotransformation Products of Xenobiotics; Mira Flasch¹; Christoph Bueschl²; Lydia Woelfingseder¹; Rainer Schuhmacher²; Doris Marko¹; Benedikt Warth¹,³,⁴; ¹University of Vienna, Faculty of Chemistry, Department of Food Chemistry and Toxicology, Vienna, Austria; ²University of Natural Resources and Life Sciences, Department of Agrobiotechnology, Center for Analytical Chemistry, IFA-Tulln, Vienna, Austria; ³Research Network Chemistry Meets Microbiology, University of Vienna, Vienna, Austria; ⁴Vienna Metabolomics Center (VIME), Vienna, Austria
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- MP 327 Using TOF-MS to Improve Quality in High Throughput Laboratories; Lucas Marshall, MS¹; Jason Hull, MS¹; Rebecca Heltsley, PhD¹; 'Aegis Sciences Corporation, Nashville TN
- MP 328 Developments in Orbitrap Mass Spectrometry on a Modified Tribrid Mass Spectrometer; Jesse D.

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 Alexander Makarov²; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bremen, Germany
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- MP 330 Suspect Screening for Antimicrobials and Other Micropollutants in Wastewater and Surface Waters from Asia using High Resolution Mass Spectrometry; Diana Aga¹; Luisa Angeles¹; ¹University at Buffalo, Buffalo, NY
- MP 331 Advanced Proteomics Quality Control Samples for Assessing Reversed-Phase Liquid Chromatography Tandem Mass Spectrometry Performance Metrics;

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- MP 333 Dissimilarity Metrics Mapping Algorithm for Assist Region Detection in Mass Spectrometry Imaging; Evgeny Zhvansky¹; Anatoly Sorokin¹.²; Daniil Ivanov¹; Vasiliy Eliferov¹; Anna Bugrova³; <u>Stanislav Pekov¹</u>.⁴; Igor Popov¹.⁴; Eugene (evgeny) Nikolaev⁵; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; ²Institute of Cell Biophysics RAS, Pushchino, Russia; ³Institute of Biochemical Physics RAS, Moscow, Russia; ⁴Institute for Energy Problems of Chemical Physics RAS, Moscow, Russia; ⁵Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 334 Automatic Identification of Suborgan Regions in MS Imaging; Laura Castellanos-García¹; Richard W. Vachet¹; ¹University of Massachusetts, Amherst, MA
- MP 335 Development and Benchmarking of Automated, Computational Registration of Microscopy and MALDI Imaging Mass Spectrometry Datasets; Heath Patterson¹; Michael D. Tuck²; Martin Dufresne^{2, 3}; Richard M. Caprioli^{2, 3, 4}; ¹Vanderbilt University, Nashville, TN; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ³Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁴Department of Chemistry, Vanderbilt University, Nashville, TN
- MP 336 Automated MS Imaging Data Processing Pipeline for Routine and Creative Data Explorations: from Data Acquisition to Archiving; Teresa Murta¹; Spencer A. Thomas¹; Alex Dexter¹; Ala Al-Afeef¹; Adam J. Taylor¹; Bin Yan¹; Chelsea J. Nikula¹; Efstathios Elia¹; Kenneth N. Robinson¹; Rory T. Steven¹; Tingting Fu¹; Weiwei Zhou¹;



- Xavier Loizeau¹; Josephine Bunch^{1,2}; ¹National Physical Laboratory, London, United Kingdom; ²Imperial College, London, United Kingdom
- MP 337 Fully Automated Mass Alignment and Recalibration of MALDI TOF Imaging Data from N-Linked Glycans;

 Tobias Boskamp^{1, 2}; Alyson Black³; Anand Mehta³; Richard Drake³; Yujin Hoshida⁴; Dennis Trede¹; Peter Maass^{1, 2}; ¹SCiLS, Bremen, Germany; ²University of Bremen, Bremen, Germany; ³Medical University of South Carolina, Charleston, SC; ⁴University of Texas Southwestern Medical Center, Dallas, TX
- MP 338 An Ion Mobility Quadrupole Time of Flight Mass Spectrometry Imaging Workflow; <u>Daniela Mesa Sanchez</u>¹; Stephen Creger¹; Ruwan T Kurulugama²; John C. Fjeldsted²; Julia Laskin¹; ¹Purdue University, West Lafayette, IN; ²Agilent Technologies, Inc., Santa Clara, CA
- MP 339 Co-Registered Matrix-Assisted Laser Desorption/
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 Matthias Lorenz¹; Nikolay Borodinov¹; Junghoon Chae¹;
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 ¹Oak Ridge National Laboratory, Oak Ridge, TN
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- MP 341 Co-Registered MALDI and ToF-SIMS Data for Visualizing Sub-cellular Signaling Pathways in the Brain; Matthias Lorenz¹; Stephen T. King¹; Chad A. Steed¹; Junghoon Chae¹; Anton V. Ievlev¹; Olga S. Ovchinnikova¹; Oak Ridge National Laboratory, Oak Ridge, TN
- MP 342 Unsupervised Segmentation of Mass Spectrometric Ion Images Characterizes Morphology of Tissues; Dan Guo¹; Kylie Bemis¹; Catherine Rawlins¹; Jeffery Agar¹; Olga Vitek¹; ¹Northeastern University, Boston, MA

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 Xiangyu Guo¹; Wenbo Cao¹; Xiaoxiao Ma¹; Xinwei Liu¹;

 Zheng Ouyang¹.²; ¹State Key Laboratory of Precision

 Measurement Technology and Instruments, Department of

 Precision Instrument, Tsinghua University, Beijing, China;

 ²Weldon School of Biomedical Engineering and Department

 of Chemistry, Purdue University, West Lafayette, IN
- MP 344 21 T MALDI FT-ICR Mass Spectrometry for High Performance Molecular Imaging; Donald F. Smith¹; Andrew P. Bowman²; Shane R. Ellis²; Greg T. Blakney¹; Ron M. A. Heeren²; Christopher L. Hendrickson¹.³; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ²Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands; ³Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL
- MP 345 Observation on Regeneration Behavior of Zebrafish Caudal Fin Using High-Spatial Resolution Mass Spectrometric Imaging; Jae Young Kim¹; Sun Young Lee¹; Ji-Won Park²; Dong-Kwon Lim³; Dae Won Moon¹; ¹Daegu Gyeongbuk Institute of Science and Technology, Daegu, South Korea; ²Chungnam National University, Daejeon, South Korea; ³Korea University, Seoul, South Korea

- MP 346 Optimized Rapid Matrix Sublimation Device for MALDI Mass Spectrometry Imaging; Vasily Eliferov¹; Daniil Ivanov¹; Andrey Shivalin¹; Igor Popov¹.²; Eugene (Evgeny) Nikolaev³; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; ²Institute of Biochemical Physics RAS, Moscow, Russia; ³Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 347 Upgrade of an LTQ-Orbitrap XL MALDI Source for High Spatial Resolution in Image Experiments; Raul Montero¹; Lucía Martín-Saiz¹; Jone Garate¹; Beatriz Abad-García¹; Jose A Fernandez²; ¹University of the Basque Country, Leioa, Spain; ²Universidad del Pais Vasco, Leioa, Spain
- MP 348 Characteristics of MALDI-Imaging on a New Dual Ion Source QTOF with TIMS Separation; Arne Fuetterer¹; Juergen Suetering¹; Janina Oetjen¹; Niels Goedecke¹; Stephanie Kaspar-Schoenefeld¹; Scarlet Koch¹; Shannonn Cornett²; Alice Ly¹; Jens Fuchser¹; Lucy Woods¹; Oliver Raether¹; Jens Hoehndorf¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Daltonics Inc., Billerica, MA
- MP 349 Atmospheric Pressure Mass Spectrometry Imaging with Post-Ionisation; Rory Thomas Steven¹; Kenneth N. Robinson¹; Alex Dexter¹; Michael Shaw¹; Teresa Murta¹; Bin Yan¹; Weiwei Zhou¹; Ian S Gilmore¹; Zoltan Takats²; Josephine Bunch^{1, 2}; **Inational Physical Laboratory, London, United Kingdom; **Imperial College London, London, United Kingdom
- MP 350 High-Resolution Ion Microscope Imaging over Broad Mass Ranges Using a Reflectron; Michael Burt¹; Robert Burleigh¹; Ang Guo¹; Fei Gao¹; Natasha Smith¹; Mark Brouard¹; ¹University of Oxford, Oxford, United Kingdom
- MP 351 Gas-Phase Charge Inversion Ion/Ion Reactions on an FT-ICR Mass Spectrometer for Fatty Acids Identification in Imaging Mass Spectrometry; Julia R Bonney¹; Xizheng Diao¹; Steve L. Van Orden²; Boone M. Prentice¹; ¹University of Florida Department of Chemistry, Gainesville, FL; ²Bruker Daltonics Inc., Billerica, MA
- MP 352 Co-Registered, Cellular-Resolution Mass Spectrometry and Fluorescence Imaging for the Multi-Omic Targeting of Rare Cell Types; Eric C. Spivey^{1, 2}; Josiah C. McMillen^{1, 3}; David M. Anderson¹; Daniel J. Ryan^{1, 3}; Jeffrey M. Spraggins^{1,3,4}; John P. Wikswo^{2, 5, 6}; Richard M. Caprioli^{1,3,4}; Jeremy L. Norris^{1, 4}; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Vanderbilt University Department of Biomedical Engineering, Nashville, TN; ³Vanderbilt University Department of Chemistry, Nashville, TN; ⁴Vanderbilt University Department of Biochemistry, Nashville, TN; ⁵Vanderbilt Institute for Integrative Biosystems Research and Education, Nashville, TN; ⁶Vanderbilt University Department of Physics, Nashville, TN
- MP 353 MALDI Spatial Resolution Improvement Using MALDI-2 Post-Ionization; Josiah C. McMillen^{1, 2}; Eric C. Spivey^{2, 3}; Daniel J. Ryan^{1, 2}; Jeffrey M. Spraggins^{1, 2, 4}; Richard M. Caprioli^{1, 2, 4, 5, 6}; ¹Department of Chemistry, Vanderbilt University, Nashville, TN; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ³Department of Biomedical Engineering, Vanderbilt University, Nashville, TN; ⁴Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁵Department of Pharmacology, Vanderbilt University, Nashville, TN; ⁶Department of Medicine, Vanderbilt University, Nashville, TN; Nashville, TN
- MP 354 Sub-Cellular Chemical and Functionals Imaging AFM-MS and Analysis of Biological Tissues; Ryan Wagner¹; Matthias Lorenz²; Olga S Ovchinnikova³; Roger Proksch¹; ¹Oxford Instruments, Santa Barbara, CA; ²University of Tennessee / Oak Ridge National Laboratory, Oak Ridge, TN; ³Oak Ridge National Laboratory, Oak Ridge, TN
- MP 355 Characterization of a Prototype MALDI timsTOF Pro for High-Performance Imaging Mass Spectrometry; Katerina V Djambazova^{1, 2}; Lukasz Migas³; Nathan Heath Patterson²



- ⁴; Raf Van de Plas³; Richard M. Caprioli^{1, 2, 4, 5, 6}; Jeffrey M. Spraggins^{1, 2, 4}; ¹Department of Chemistry, Vanderbilt University, Nashville, TN; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ³Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; ⁴Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁵Department of Medicine, Vanderbilt University, Nashville, TN; ⁶Department of Pharmacology, Vanderbilt University, Nashville, TN
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- MP 358 Understanding the Role of Electrospray Solvent Composition on the Ionization of Diverse Chemical Classes by IR-MALDESI MSI; Måns Ekelöf¹; David C Muddiman¹.²; Michael C. Bagley¹; Liana Gouveia¹; ¹North Carolina State University, Raleigh, NC; ²Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
- MP 359 RastirX: A Versatile Platform for Imaging Arbitrary Spatial Patterns; Kenneth P. Garrard^{1, 2}; Måns Ekelöf¹; Sitora Khodjaniyazova¹; Michael C. Bagley¹; David C. Muddiman^{1, 3}; Elias P. Rosen⁴; William M. Gilliland, Jr. ⁴; Angela D. M. Kashuba⁴; ¹FTMS Laboratory for Human Health Research, Department of Chemistry, North Carolina State University, Raleigh, NC; ²Precision Engineering Consortium, North Carolina State University, Raleigh, NC; ³Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC; ⁴Division of Pharmacotherapy and Experimental Therapeutics, University of North Carolina at Chapel Hill, NC

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 ¹The University of Montana, Missoula, MT; ²University of Montana Missoula, Missoula, MT
- MP 361 LipidAnalyst: A Deep Neural Network Approach for Standardized and Comprehensive Lipidomic Analysis; Naren Gajenthra Kumar¹; Aliakbar Panahi²; Joseph J Nalluri³; Dayanjan S Wijesinghe²; ¹Department of Microbiology and Immunology, Virginia Commonwealth University, Richmond, VA; ²Department of Pharmacotherapy and Outcomes Sciences, Virginia Commonwealth University, Richmond, VA; ³Department of Radiation Oncology, Virginia Commonwealth University, Richmond, VA
- MP 362 AP3: An Advanced Proteotypic Peptide Predictor for Targeted Proteomics by Integrating Peptide Digestion Probability; Zhiqiang Gao¹; Cheng Chang².³; Yan Fu¹;

 ¹NCMIS, RCSDS, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China;
 ²Beijing Institute of Lifeomics, Beijing, China; ³Beijing Proteome Research Center, Beijing, China
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- MP 365 Simulated Impacts of Mass Resolving Power on the Resulting Mass Error Distribution in Mass Spectrometry Analysis; Melaine O Couch¹; Martha L. Chacón-Patiño¹; Christopher L. Hendrickson¹.²; Yuri E. Corilo¹; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ²Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL
- MP 366 Predicting Ion Mobility Collision Cross Sections by Combining Conventional and Data Driven Modelling;
 Robbin Bouwmeester^{1, 2}; Lennart Martens^{1, 2}; Sven
 Degroeve^{1, 2}; Keith Richardson³; Johannes PC Vissers³;

 ¹VIB-UGent Center for Medical Biotechnology, Ghent,
 Belgium; ²Department of Biochemistry, Ghent University,
 Ghent, Belgium; ³Waters Corporation, Wilmslow, United
 Kingdom
- MP 367 A New Spectral Baseline Subtraction Algorithm for Reducing Artefacts in Protein Deconvolution; Lyle Burton¹; Xu Guo¹; Gordana Ivosev¹; Ron Bonner²; ¹SCIEX, Concord, ON; ²Ron Bonner Consulting, Newmarket, ON
- MP 368 Toffee: A Highly Compressed, Efficient, File Format for DIA-MS; David Clarke¹; Akila Seneviratne¹; Brett Tully¹; ¹ProCan, Children's Medical Research Institute, The University of Sydney, Westmead, Australia
- MP 369 Increased Peptide Detection Accuracy in DIA-MS via Chemical and Random Additive Noise Elimination (Crane); Akila J Seneviratne¹; Brett Tully¹; ¹ProCan, Children's Medical Research Institute, The University of Sydney, Westmead, Australia
- MP 370 Exploring DIA Proteomics Spectra with Tensor-based Deconvolution; Filip Buric¹; Aleksej Zelezniak¹.²; ¹Chalmers University of Technology, Gothenburg, Sweden; ²Science for Life Laboratory, KTH Royal Institute of Technology, Stockholm, Sweden
- MP 371 Repeat-Preserving Decoy Database for False Discovery Rate Estimation in Peptide Identification; Johra Muhammad Moosa¹; Shenheng Guan¹,²; Michael F. Moran², '§ Bin Ma¹; 'David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, ON; 'Program in Cell Biology and SPARC BioCentre, Hospital for Sick Children, Toronto, ON; 'Department of Molecular Genetics, University of Toronto, Toronto, ON
- MP 372 MS-PROTINI: A Protein-Protein Interaction-Assisted Algorithm for the Confidence Assessment of Peptide and Protein Identifications in Mass Spectrometry-Based Proteomics; Francesca A. Barry¹; Zhibin Ning¹; Daniel Figeys¹; Mathieu Lavallée-adam¹; ¹University of Ottawa, Ottawa, ON
- MP 373 Peptide Migration Time Prediction in Capillary
 Zone Electrophoresis Mass Spectrometry Using
 a Convolutional Neural Network Model; Wenrong
 Chen¹; Liangliang Sun²; Xiaowen Liu¹.³; ¹Department of
 BioHealth Informatics, Indiana University-Purdue University
 Indianapolis, Indianapolis, Indiana; ²Department of
 Chemistry, Michigan State University, East Lansing, 48824;
 ³Center for Computational Biology and Bioinformatics,
 Indiana University School of Medicine, Indianapolis, IN
- MP 374 A Novel Algorithm for Automating Fragment Ion Structure Assignment Using High Mass Accuracy MS/MS data; Neil Loftus¹; Kirsten Hobby¹; Alan Barnes¹; ¹Shimadzu Corporation, Manchester, United Kingdom
- MP 375 Factor Analysis Identifies Biologically Meaningful
 Proteoform Families of Human ApoA-I; Richard LeDuc¹;
 Henrique Seckler²; John T Wilkins²; Ryan T Fellers²; Joseph
 B Greer²; Paul M Thomas²; Neil L Kelleher²; ¹Northwestern



- University, Bloomington, IN; ²Proteomics Center of Excellence, Northwestern University, Chicago, IL
- MP 376 **GPU-Based Signal Processing Optimization for 1&2D FT-ICR Mass Spectrometer Data**; Marc Haegelin¹; Fabrice
 Bray¹; Anne Jeannin-Girardon²; Pierre Collet²; Christian
 Rolando¹; ¹Université de Lille, Villeneuve d'Ascq, France;
 ²Université de Strasbourg, Strasbourg, France
- MP 377 Masstodon: A Tool for in Depth Analysis of your Mass Spectrum; Mateusz Krzysztof Lacki¹; Frederik Lermyte^{2, 3,} 4; Błażej Miasojedow5; Michał Piotr Startek5; Stefan Tenzer1; Frank Sobott^{2, 6, 7}; Dirk Valkenborg^{3, 8, 9}; Anna Gambin⁵; ¹University Medical Center Mainz, Mainz, Germany; ²Biomolecular and Analytical Mass Spectrometry group, University of Antwerp, Belgium; 3Centre for Proteomics (University of Antwerp/VITO (Belgium)), Antwerpen, Belgium; 4School of Engineering, University of Warwick, Coventry, United Kingdom; 5University of Warsaw, Warsaw, Poland; 6Astbury Centre for Structural Molecular Biology, University of Leeds, United Kingdom; ⁷School of Molecular and Cellular Biology, University of Leeds, United Kingdom; ⁸Flemish Institute for Technological Research (VITO), Mol, Belgium; ⁹Interuniversity Institute for Biostatistics ans Statistical Bioinformatics, Hasselt, Belgium
- MP 378 Using Isotopic Cluster, Neutral Loss and Adduct Analyses to Improve Component Detection in LC HRAM MS Experiment; Juraj Lutisan¹; Michal Gramblička¹; Žofia Lutišanová¹; Robert Mistrik¹; Xiaojie C. Ding²; Vladimír Pätoprstý³; ¹HighChem, Bratislava, Slovakia; ²Thermo Fisher Scientific, San Jose, CA; ³Slovak Academy of Sciences, Bratislava, Slovakia
- MP 379 Automated Predicting Fragmentation Scheme for Molecules during Collision-Induced Dissociation;

 <u>Grzegorz Skoraczynski</u>¹; Michal Ciach¹¹.²; Michal Startek¹; Anna Gambin¹; ¹Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Warsaw, Poland;

 ²Centrum voor Statistiek, Hasselt University, Diepenbeek, Belgium
- MP 380 An Efficient Method for Cosine Similarity Threshold Search Using a Peak Indexing Strategy; Jonghun Park¹; Yuliang Li¹; Jianguo Wang¹; Benjamin Pullman¹; Yannis Papakonstantinou¹; Nuno Bandeira¹; ¹UC San Diego, La Jolla. CA
- MP 381 Bioinformatics Optimization Approaches for the Label-Free Quantitation of Ubiquitinated Peptides in Bottom-Up MS-Based Proteomics; Arzu Tugce Guler¹; Karen A. Sap¹; Aleksandra Bury¹; Karel Bezstarosti²; Jeroen A.A. Demmers²; Eric A. Reits¹; **Imsterdam UMC, Amsterdam, Netherlands: **2Erasmus MC. Rotterdam. Netherlands
- MP 382 Using Generalized Chemical Artificial Intelligence to Calculate Molecular Properties, Including GC Retention Indices; Lewis Geer¹; Stephen E. Stein¹; William E. Wallace¹; ¹NIST, Gaithersburg, MD

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MP 383 Prosit: Investigating Vast and Complex Peptide Spaces by Boosting Identification Confidence through Highly-Accurate Fragment Intensity Predictions; Siegfried Gessulat^{1, 2}; Tobias Schmidt¹; Daniel P Zolg¹; Julia Rechenberger¹; Patroklos Samaras¹; Steven Verbruggen^{3, 4}; Bernard Delanghe⁵; Andreas Huhmer⁶; Karsten Schnatbaum⁷; Ulf Reimer⁷; Hans-Christian Ehrlich²; Stephan Aiche²; Gerben Menschaert^{3, 4}; Bernhard Kuster^{1, 8, 9}; Mathias Wilhelm¹; ¹Technical University of Munich, Freising, Germany; ²SAP SE, Potsdam, Germany; ³Ghent University, Ghent, Belgium; ⁴BioBix Lab, Ghent, Belgium; ⁵Thermo Fisher Scientific, Bremen, Germany; ⁶Thermo Fisher Scientific, San Jose, CA; ⁷JPT Peptide Technologies GmbH, Berlin, Germany; ⁸Bavarian Center for Biomolecular

Integrated Protein Science Munich, Freising, Germany
MP 384 Improved Algorithms for Identifying Phosphopeptides
in Peptide Tandem Mass Spectral Libraries; Sergey
Sheetlin¹; Dmitrii V. Tchekhovskoi¹; Zheng Zhang¹; Stephen
E. Stein¹; ¹NIST, Gaithersburg, MD

Mass Spectrometry, Freising, Germany; 9Center for

- MP 385 The Mouse Quantitative Proteomics Knowledge Base: CPTAC-Validated Quantitative Targeted Proteomics Assays for Discovery in Mouse Models; Yassene Mohammed^{1, 2}; Pallab Bhowmick¹; Sarah A. Michaud¹; Helena Pětrošová¹; Christoph H. Borchers^{1, 3, 4, 5}; '1University of Victoria-Genome BC Proteomics Centre, Victoria, BC; '2Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden, Netherlands; '3Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; '4Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; ⁵Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- MP 386 Targeted Proteomics Assays for FDA-Approved Protein Biomarkers; Yassene Mohammed 1, 2; Simon Roome 1; Pallab Bhowmick 1; Christoph H. Borchers 1, 3, 4, 5; 1University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 2Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden, Netherlands; 3Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 4Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 5Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- MP 387 Peak Finding and Quantification Improvements in Skyline; Nicholas Shulman¹; Brian C Searle^{2, 3}; Micheal J MacCoss¹; Brendan X MacLean¹; ¹University of Washington, Seattle, WA; ²Systems Biology, Seattle, WA; ³Proteome Software, Portland, OR
- MP 388 Bonfire Search Engine for Precursor-Independent Identification of Peptides with Exact or Open Modification to Uncover the "Dark Proteome"; Wen Yu¹; Raghothama Chaerkady¹; Xiaotao Qu¹; Sonja Hess¹; David A Fenstermacher¹; ¹MedImmune, Gaithersburg, MD
- MP 389 ImmuNOVO: A Software Tool for Constrained de novo Sequencing of Neo-Epitope Peptides from Immunopeptideomics; Sujun Li¹; Haixu Tang²; ¹Indiana University, Bloomington, IN; ²Indiana University Bloomington, Bloomington, IN
- MP 390 Extremely Efficient Open Modification Spectral Library Searching Using Spectrum Hashing and GPUs Allows Large-Scale PTM Profiling; Wout Bittremieux¹.

 ²; Kris Laukens²; William Stafford Noble¹; **Iuniversity of Washington, Seattle, WA; **2University Of Antwerp, Antwerp, Belgium
- MP 391 Improving Peptide Identification by Library Search from Chimeric Spectra; Wenju Zhang¹; Zhewei Liang¹; Xin Chen¹; Lei Xin¹; Baozhen Shan¹; ¹Bioinformatics Solutions Inc., Waterloo, ON
- MP 392 A New Feature-Based Workflow Unifies DDA and DIA Data Analysis; Wen Zhang¹; Weiping Sun¹; Ziaur Rahman¹; Yi Liu¹; Lei Xin¹; ¹Bioinformatics Solutions Inc., Waterloo, ON
- MP 393 Identification of Inconsistent Peptide Recovery and Aberrant Peptide Termini as Sources of Sample Variability in Patient-derived Tumor Samples; Meghan Burke¹; Zheng Zhang¹; Yuri A. Mirokhin¹; Dmitrii V. Tchekhovskoi¹; Stephen E. Stein¹; ¹National Institute of Standards and Technology, Gaithersburg, MD



- MP 394 Robust Cross-Linked Peptide Detection Using Pretrained Neural Networks; William E Fondrie¹; William Stafford Noble¹; 'The University of Washington, Seattle, WA
- MP 395 Validation of Peptide Identification Using Housekeeping Genes as Positives in Supervised Learning; Honglan Li¹; Seungjin Na¹; Kyu-Baek Hwang²; Eunok Paek¹; ¹Hanyang University, Seoul, South Korea; ²Soongsil University, Seoul, South Korea
- MP 396 Ion Mobility Enhanced Matching between LC-MS Runs and Collisional Cross Section Prediction Improve Identification and Quantification in MaxQuant; Nikita Prianichnikov¹; Favio Salinas Soto¹; Heiner Koch²; Scarlet Koch²; Markus Lubeck²; Sven Brehmer²; Juergen Cox¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany; ²Bruker Daltonik GmbH, Bremen, Germany
- MP 397 phosMS-GF+: Database Dependent Search Engine for Improved Phosphopeptide Identifications; Daniela M. Schlatzer¹; Sean Maxwell²; Mark R. Chance¹; ¹Center for Proteomics and Bioinformatics, CWRU, Cleveland, Ohio; ²Case Western Reserve University, Cleveland, OH
- MP 398 Automating Distributed Analysis of Large MS/MS
 Datasets; Julie S Wertz¹; Jeremy Carver¹; Nuno Bandeira¹;

 ¹University of California San Diego, La Jolla, CA
- MP 399 Indexed Retention Time (iRT) Prediction of Peptides by Deep Learning; Shenheng Guan^{1, 2}; Jia Rong Wu¹; Michael F. Moran^{2, 3}; Bin Ma¹; ¹University of Waterloo, Waterloo, ON; ²SPARC BioCentre, Hospital for Sick Children, Toronto, Ontario; ³University of Toronto, Toronto, Ontario
- MP 400 Improved Label-Free Quantification with MaxQuant through more Robust Feature Alignment; Mai Sun¹; Xuemei Zeng¹; Nathan A. Yates¹.²; ¹Biomedical Mass Spectrometry Center, University of Pittsburgh Schools of the Health Sciences, Pittsburgh, PA; ²Department of Cell Biology, University of Pittsburgh School of Medicine, Pittsburgh, PA
- MP 401 Bolt: A New Age Peptide Search Engine for Comprehensive MS/MS Sequencing through Vast Protein Databases in Minutes; Amol Prakash¹; Swetaketu Majumder¹; Shadab Ahmad¹; Conor Jenkins²; Benjamin Orsburn³; ¹Optys Tech Corporation, Shrewsbury, MA; ²Hood College Bioinformatics Program, Frederick, MD; ³National Cancer Institute @ Frederick, Frederick, MD
- MP 402 **Comparison of Open-Search Tools**; <u>Fengchao Yu</u>¹; Guo-Ci Teo¹; Andy T. Kong¹; Felipe V. Leprevost¹; Hui-Yin Chang¹; Alexey I. Nesvizhskii¹; ¹*University of Michigan, Ann Arbor, MI*
- MP 403 METATRYP 2.0: Improvements in METATRYP
 Software for Metaproteomic Least Common Ancestor
 Analyses within the Ocean Protein Portal; David
 Gaylord¹; Jaclyn Saunders¹; Noelle Held¹; Nick Symmonds¹;
 Adam Shepherd¹; Michael Chagnon²; Danie Kinkade¹;
 Tom Delmont³; A. Murat Eren³; Chris Dupont⁴; Mak Saito¹;
 ¹Woods Hole Oceanographic Institution, Wood Hole, MA;
 ²RPS Ocean Science, South Kingston, RI; ³University of
 Chicago, Chicago, IL; ⁴J. Craig Venter Institute, La Jolla, CA
- MP 404 Exploring Phosphopeptide Variability across Search Engines and Parameters; Bhoomi Bhatt¹; Alexander Saltzman¹; Mei Leng¹; Antrix Jain¹; Anna Malovannaya¹;

 ****JBaylor College of Medicine, Houston, Texas**
- MP 405 Shifted Ions Searching and Other Improvements in the MSFragger Database Search Engine; Guo Ci Teo¹; Andy T. Kong¹; Hui-Yin Chang¹; Felipe Da Veiga Leprevost¹; Dmitry Avtonomov¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- MP 406 Prediction of z+1 Hydrogen Rearrangement in ETD Spectra; Jia R Wu¹; Bin ma¹; Shenheng Guan¹; ¹University of Waterloo, Waterloo, ON
- MP 407 **Open Modification Analysis of Keratin Proteins in Hair** and Skin Samples; Brett S Phinney¹; Michelle R Salemi¹; Glendon J Parker²; Zachary C Goecker²; Robert H Rice²;

- ¹Proteomics Core Facility, UC Davis Genome Center, University of California, Davis, Davis, CA; ²Department of Environmental Toxicology, University of California, Davis, CA. Davis. CA
- MP 408 The Sushi Proteome Project towards Unveiling Dietary Metaproteomes without Genomic Information; Hiroshi Nishida¹; Akiyasu C. Yoshizawa¹; Tsuyoshi Tabata¹; Naoyuki Sugiyama¹; Shujiro Okuda²; Yasushi Ishihama¹; ¹Graduate School of Pharmaceutical Sciences Kyoto University, Kyoto, Japan; ²Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan
- MP 409 Development of Custom Peptide MS/MS Analysis
 Software for Use in a Regulated Environment; Roger E
 Moore¹; Denise A Keen¹; Gabriel B Gugiu¹; ¹City of Hope,
 Duarte. CA
- MP 410 The Curation of Transcriptomic Data for Use as a Proxy Protein Database for Unsequenced Tree Nuts; Cary Pirone-davies¹; Melinda A. McFarland¹; Christine H. Parker¹; Timothy R. Croley¹; ¹U.S. Food and Drug Administration, College Park, MD
- MP 411 Parametric Model Selection Methods for Estimating Target and Decoy Distributions Using Mass Spectrum Characteristics; Benjamin A. Stark¹; Robert Smith¹; ¹University of Montana, Missoula, MT
- MP 412 MetaMorpheus Multi-Protease Parsimony Significantly Improves Protein Inference in Bottom-Up Proteomics;
 Rachel M. Miller¹; Robert J. Millikin¹; Connor V. Hoffmann¹;
 Stefan K. Solntsev¹; Gloria M. Sheynkman²; Michael R.
 Shortreed¹; Lloyd M. Smith¹; ¹University of Wisconsin,
 Madison, WI; ²Dana-Farber Cancer Institute, Boston, MA
- MP 413 A Novel LC-MS Deep Learning Based Cancer Detection Program and Improvements with Retention Time Correction; Yuichi Kokabu¹; Yukihiro Fukamachi¹; Yoriko Takahashi¹; Yasuto Yokoi¹; Masaya Ono²; ¹MITSUI KNOWLEDGE INDUSTRY CO., LTD., Minato-ku, Japan; ²National Cancer Center Research Institute, Chuo-ku, Japan
- MP 414 Optimizing the Isolation Width in Orbitrap Instruments to Maximize the Number of Label-Free Quantified Peptides and Protein; Carmen Paschke¹; Waqas Nasir¹; Kai Fritzemeier¹; Rosa Rakownikow Jersie-Christensen¹; Tabiwang N. Arrey¹; David Horn²; Martin Zeller¹; Romain Huguet²; Bernard Delanghe³; ¹Thermo Fisher Scientific, Bremen, Germany; ²ThermoFisher, San Jose, CA; ³Thermo Fisher Scientific (Bremen) GmbH, Bremen, Germany
- MP 415 An Automated Data Analysis Workflow for Intact and Sub-Unit Mass Analysis of Protein Reagents
 Using Different Mass Spectrometry Platforms; Dylan
 Sorensen¹; Han-Yin Yang¹; St. John Skilton²; Eric Carlson²;
 Dhanashri Bagal¹; ¹Amgen, South San Francisco, CA;
 ²Protein Metrics Inc., Cupertino, CA
- MP 416 FragPipe: A Fast Proteomics Pipeline with MSFragger Search Engine at Heart; Dmitry Avtonomov¹; Andy T. Kong¹; Felipe V. Leprevost¹; Guo-Ci Teo¹; Hui-Yin Chang¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- MP 417 End-to-End Integration of Known Variants and Modifications from PEFF into the Trans-Proteomic Pipeline for Enriched MS/MS Sequence Determination; Luis Mendoza¹; Eric W Deutsch¹; Jimmy K Eng²; Robert L Moritz¹; ¹Institute for Systems Biology, Seattle, WA; ²University of Washington, Seattle, WA
- MP 418 TOMAHTO An API-enhanced, TMT-based, Targeted Protein Assay with Real-time Instrument Control;
 Qing Yu¹; Devin K Schweppe¹; Jose Navarrete-Perea¹;
 Christopher M. Rose²; Bhavin Patel³; John C Rogers³;
 Steven P Gygi¹; ¹Harvard Medical School, Boston, MA;
 ¹Genentech, South San Francisco, CA; ³ThermoFisher Scientific, Rockford, IL



- MP 419 Model-Free SILAC Quantitation Yields Robust Reproducible Results; <u>David Chiang</u>¹; Patrick Chu¹;

 ¹Sage-N Research, Inc., Milpitas, CA
- MP 420 gpGrouper: A Gene-Centric Peptide Grouping
 Procedure Accurately Distributes Shared Peptides
 Across Gene Products and Species; Alexander
 Saltzman¹; Bhoomi Bhatt¹; Mei Leng¹; Anna Malovannaya¹;
 ¹Baylor College of Medicine, Houston, TX
- MP 421 Assessing the validity of protein inference on a large environmental metaproteomic dataset ProteOMZ Expedition of the Central Pacific Ocean; Jaclyn K.

 Saunders¹; Matthew McIlvin¹; Dawn Moran¹; Noelle Held¹; Chris Dupont²; Alyson Santoro³; Mak Saito¹; ¹Woods Hole Oceanographic Institution, Woods Hole, MA; ²J. Craig Venter Institute, La Jolla, CA; ³University of California, Santa Barbara, Santa Barbara, CA
- MP 422 Propagating Uncertainty in Protein-Level
 Quantifications is Key to Robust Downstream
 Analysis of Bottom-Up Proteomics Data; Alexander
 Phillips¹; Ranjeet S Bhamber²; Anna Tierney³; Martin
 Rusilowicz³; Simon Maskell¹; Simon Hubbard³; Andrew R
 Jones¹; Richard Unwin³; Andrew W Dowsey²; ¹University
 of Liverpool, Liverpool, United Kingdom; ²University of
 Bristol, Bristol, United Kingdom; ³University of Manchester,
 Manchester, United Kingdom

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- MP 423 Automated Software for Enhanced Ion Mobility-Mass Spectrometry Analyses with Structures for Lossless Ion Manipulations; Aivett Bilbao¹; Joon-Yong Lee¹; Bryson C. Gibbons¹; Gabe Nagy¹; Matthew E. Monroe¹; Thomas O. Metz¹; John C. Fjeldsted²; Yehia M. Ibrahim¹; Richard D. Smith¹; *IBiological Sciences Division, Pacific Northwest National Laboratory, Richland, WA; *Agilent Technologies, Santa Clara. CA
- MP 424 New Data Container Construct for Automated Processing of LC/UV/MS Data to Support High Throughput Chemistry; Richard Lee¹; Andrey Paramonov¹; ¹ACD/Labs, Toronto, ON
- MP 425 The Web-Based Application for Exploring Isoform Specific Protein Expression Patterns in Mass Spectrometry Proteomics Data Repositories; Han-Yin Yang¹; Bradford W. Gibson¹; Amgen Inc., South San Francisco, CA
- MP 426 Systematic Evaluation of Cross-linked Peptide Search Engines; Zhen-lin Chen¹; Jia-Ming Meng¹; Yong Cao²; Ji-Li Yin¹; Run-Qian Fang¹; Sheng-Bo Fan¹; Chao Liu¹; Wen-Feng Zeng¹; Yue-He Ding²; Dan Tan²; Long Wu¹; Wen-Jing Zhou¹; Hao Chi¹; Rui-Xiang Sun²; Meng-Qiu Dong²; Si-Min He¹; ¹Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China; ²National Institute of Biological Sciences, Beijing, China
- MP 427 Populating a Vacuum Ultraviolet Spectroscopy
 Library Using Tandem GC/VUV-MS and Chemometric
 Deconvolution of Real-World Sample Data; Shubhneet
 Warar¹; lan G. M. Anthony²; Christina A. Gaw²; Touradj
 Solouki²; ¹Baylor Univeristy, Waco, TX; ²Baylor University,
 Waco, TX
- MP 428 triMS5 A Novel Data Format for LC-IMS-MS Data Sets Providing Scalable Representation for Sparse Profile Data; Jennifer Leclaire¹; Thomas Kemmer¹; Andreas Hildebrandt¹; Stefan Tenzer²; ¹University of Mainz, Mainz, Germany; ²University Medical Center Mainz, Mainz, Germany
- MP 429 A Platform Approach to Managing Developability and Manufacturability Assessments of Biotherapeutics;
 Albert Van Wyk¹; Joe Shambaugh²; John McCarter²;

- Aude Tartiere³; Christopher Smith²; Amanda Fitzgerald²; Cassandra Wigmore⁴; Peter Haberl⁵; ¹Genedata Ltd, Cambridge, United Kingdom; ²Genedata, Inc., Lexington, MA; ³Genedata, Inc., San Francisco, CA; ⁴Genedata AG, Basel, Switzerland; ⁵Genedata GmbH, Munich, Germany
- MP 430 Customizable Quality Control Metrics and Notifications with Panorama, AutoQC, and Skyline; Josh Eckels¹; Vagisha Sharma²; Marty Pradere¹; Ankur Juneja¹; Angelica Omaiye¹; Cory Nathe¹; Sweta Jewargikar¹; Michael J MacCoss²; Brendan X MacLean²; ¹LabKey, San Diego, CA; ²University of Washington, Seattle, WA
- MP 431 ASMS 2019 Abstract Audit Logs to Enforce Document Integrity in Skyline and Panorama; Tobias Rohde¹; <u>Rita Chupalov</u>¹; Nicholas Shulman¹; Josh Eckels²; Brian S Pratt¹; Michael J MacCoss¹; Brendan X MacLean¹; ¹University of Washington, Seattle, WA; ²LabKey, San Diego, CA
- MP 432 **MZView: Web-based Free Software for LC-MS Data Visualization**; <u>Lin Wu</u>¹; Bin Ma¹; ¹University of Waterloo, Waterloo, ON
- MP 433 On-Demand Construction of HRAM MSn Spectral Libraries: Where Acquisition Meets Curation; Jakub Mezey¹; Samuel Benkovič¹; Melissa Montoya²; Tim Stratton²; Robert Mistrik¹; Michal Raab¹; ¹HighChem, Bratislava, Slovakia; ²Thermo Fisher Scientific, Austin, Texas
- MP 434 Implementing a Generic Scripting Node to a Standard Proteomics Workflow Processing Software; Frank Berg¹; Kai Fritzemeier¹; Carmen Paschke¹; Torsten Ueckert¹; David Horn²; Bernard Delanghe¹; ¹Thermo Fisher Scientific, Bremen, Germany; ²ThermoFisher, San Jose, CA
- MP 435 Simple Interface Web Application for Biomaker Validation; Jaenyeon Kim¹; Hyunsoo Kim²; Injoon Yeo³; Areum Sohn²; Youngsoo Kim². 3.4; ¹Seoul National University, Seoul, South Korea; ²Seoul National University, College of Medicine, Seoul, South Korea; ³Seoul national university, Seoul, South Korea; ⁴Seoul National University Hospital, Seoul, South Korea
- MP 436 mzMLb: A PSI Standards Compatible Binary Mass Spectrometry Data Format for Efficient Read/Write Speed and Storage Space Requirements; Ranjeet S Bhamber¹; Andris Jankevics²; Andy Jones³; Andrew Dowsey¹; ¹University of Bristol, Bristol, United Kingdom; ²University of Birmingham, Birmingham, United Kingdom; ³University of Liverpool, Liverpool, United Kingdom
- MP 437 The implementation of MSFragger and Philosopher/
 PeptideProphet nodes in Proteome Discoverer; Hui-Yin
 Chang¹; Andy T. Kong¹; Felipe V. Leprevost¹; Guo Ci Teo¹;
 Venkatesha Basrur¹; Alexey I. Nesvizhskii¹; ¹University of
 Michigan, Ann Arbor, MI
- MP 438 **Proteomics Standards Initiative Extended FASTA** Format (PEFF); Pierre-Alain Binz1; Jim Shofstahl2; Juan Antonio Vizcaino³; Harald Barsnes⁴; Robert Chalkley⁵; Gerben Menschaert⁶; Emanuele Alpi³; Karl Clauser⁷; Jimmy K Eng8; Lydie Lane9; Sean seymour10; Gerhard Mayer¹¹; Martin Eisenacher¹¹; Yasset Perez-Riverol³; Eugene Kapp¹²; Luis Mendoza¹³; Peter R. Baker⁵; Eric Deutsch¹³; ¹CHUV Centre Hospitalier Universitaire Vaudois. Lausanne, Switzerland; 2Thermo Fisher Scientific, San Jose, California; 3EMBL-EBI, Hinxton, United Kingdom; ⁴University of Bergen, Bergen, Norway; ⁵UCSF, San Francisco, CA; ⁶Ghent University, Gent, Belgium; ⁷Broad Institute of MIT and Harvard, Cambridge; 8University of Washington, Seattle, WA; 9SIB Swiss Institute of Bioinformatics, Geneva, Switzerland; 10 Seymour Data Science, San Francisco, California; 11Ruhr University Bochum, Bochum, Germany; 12 University of Melbourne, Melbourne, Australia; 13 Institute for Systems Biology, Seattle, WA



- MP 439 Proteomics Standards Initiative (PSI) Universal Spectrum Identifier (USI); Eric Deutsch¹; Juan Antonio Vizcaino²; Yasset Perez-Riverol²; Jeremy Carver³; Benjamin Pullman³; Shin Kawano⁴; Zhi Sun¹; Luis Mendoza¹; Pierre-Alain Binz⁵; Gerben Menschaert⁶; Nuno Bandeira³; ¹Institute for Systems Biology, Seattle, WA; ²EMBL-EBI, Hinxton, United Kingdom; ³UCSD, La Jolla, CA; ⁴Database Center for Life Science, Kashiwa, Japan; ⁵CHUV Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland; ⁶Ghent University, Gent, Belgium
- MP 440 Repository Scale MS1 Data Processing and Analysis Across Different LC-MS Methods; Christine M Aceves¹; Alan K Jarmusch¹; Mingxun Wang¹; Fernando Vargas¹; Pieter Dorrestein¹; ¹Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, La Jolla, CA
- MP 441 Panorama Public: ProteomeXchange and Cloud Storage Integration; Vagisha Sharma¹; Brian Connolly¹; Josh Eckels²; Dave Bradlee²; Angelica Omaiye²; Trey Chadick²; Michael J MacCoss¹; Brendan X MacLean¹; ¹University of Washington, Seattle, WA; ²LabKey, San Diego, CA
- MP 442 ProteinExplorer: A Repository-Scale Resource for Exploration of Protein Detection in Public Mass Spectrometry Data Sets; Benjamin Pullman¹; Julie S Wertz¹; Jeremy Carver¹; Nuno Bandeira¹; ¹UC San Diego, La Jolla. CA
- MP 443 proteoQ: An R Package for Versatile Integration of Bioinformatics with Multiplex, High-precision Proteomics; Qiang Zhang¹; R Reid Townsend²;

 ¹Washington University School of Medicine, St. Louis, MO;
 ²Washington University, School of Medicine, St. Louis, MO
- MP 444 LipidXplorer Web: An Online Tool for Simplified and Streamlined Lipid Identification by Shotgun Lipidomics; Eduardo Jacobo Miranda Ackerman¹; Nils Hoffmann²; Oskar Knittelfelder¹; Kai Schuhmann¹; Robert Ahrends²; Andrej Shevchenko¹; ¹Max Plank Institute for Molecular Cell Biology and Genetics, Dresden, Germany; ²Leibniz-Institut für Analytische Wissenschaften ISAS e.V., Dortmund, Germany
- MP 445 MassIVE: Converting Terabytes of Raw Public Data into Reusable Community Knowledge; Jeremy Carver¹; Mingxun Wang¹; Benjamin Pullman¹; Julie S Wertz¹; Nuno Bandeira¹; ¹UCSD, La Jolla, CA INSTRUMENTATION: NEW DEVELOPMENTS IN

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- MP 446 Small Molecule Detection from Biofluids using an Automated Plate-Based Paper Spray System; Nicholas Manicke¹; Greta J. Ren¹; Cornelia Boeser²; Neloni Wijeratne²; ¹IUPUI Department of Chemistry & Chemical Biology, Indianapolis, IN; ²ThermoFisher, San Jose, CA
- MP 447 Analysis of PFASs in Environmental Waters by DART-MS with Coated Dip-it Sampling in Minutes; Robert Cody¹; Simin D. Maleknia²; ¹JEOL USA, Inc., Peabody, MA; ²University of Technology Sydney, Sydney, Australia
- MP 448 Vapor Assisted Ionization Enhancement in An Enclosed Nano-ESI Source; Yixin Zhu¹; Georgia Dolios²; Fangjun Wang³; Rong Wang²; Kai Tang¹; ¹Zhejiang Haochuang Biotech Co. Ltd., Hangzhou, China; ²Icahn School of Medicine at Mount Sinai, New York, NY; ³Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- MP 449 Enhancement of Molecular Coverage by Solvent Gradient Electrospray Ionization Using Theta-Glass Capillary Emitters with Laser Ablation Mass Spectrometry; Sara K Mattson¹; Sylwia A Stopka¹; Akos Vertes¹; George Washington University, Washington, DC

- MP 450 Modelling and Experimental Progress towards the Fabrication of Robust Constant-Bore Emitters and their Evaluation on a Novel Electrospray Test Device; Kyle Bachus¹; Joe Giddings²; Herbert Foo¹; Heike Ebendorff-Heidepriem².³; Yvonne Stokes²; Andrew A Gooley¹; ¹Trajan Scientific and Medical, Ringwood, Australia; ²University of Adelaide, Adelaide, Australia; ³Institute for Photonics and Advanced Sensing, Adelaide, Australia
- MP 451 Evaluation of Bare and Modified Copper Surfaces as Spray Initiators for Ambient Ionization; Michael C.

 Godwin¹; William D. Hoffmann¹; ¹Texas State University, San Marcos, TX
- MP 452 Intra-well Imaging of Fluid Meniscus and Mass Spectra via Acoustic Mist Ionization Mass Spectrometry; Eric Hall¹; Lucien Ghislain¹; Yi-wen Huang¹; Sammy S Datwani¹; ¹Labcyte Inc., San Jose, CA
- MP 453 **Development of Novel Ion Source in a Portable Mass Spectrometer**; Yi-Shin Chen¹; <u>I-Chung Lu¹</u>; ¹Department of
 Chemistry, National Chung Hsing University, Taichung City,
 Taiwan
- MP 454 Acoustic-Droplet-Ejection to the Open-Port Probe Sampling Interface of MS (ADE-OPP-MS) the Automated High-Throughput Bioanalysis Platform for Drug Discovery; Chang Liu¹; Hui Zhang²; Wenyi Hua²; Jianhua Liu²; David M Cox¹; Thomas R. Covey¹; ¹SCIEX, Concord, ON; ²Pfizer Inc., Groton, CT
- MP 455 Direct Coupling of Magnetic Nanoparticles and Enhancement of Blade Spray Ionization Mass Spectrometry for Quantitation of Analytes in Complex Matrices; Varoon Singh¹; German Augusto Gomez Rios¹.²; Milaan Thirukumaran¹; Daniel Rickert¹; Janusz Pawliszyn³; ¹University of Waterloo, Waterloo, ON; ²Restek Corporation, Bellefonte, PA; ³Univeristy of Waterloo, Waterloo, ON
- MP 456 Comparison of Electrospray and Impactor Ionization (Unispray) Tandem Mass Spectrometry for the Analysis of Newborn Screening Biomakers; Gyliann M Pena¹; Timothy Lim¹; Joanne Mei¹; Konstantinos Petritis¹; ¹CDC, Atlanta, GA
- MP 457 Establishing Better Laboratory Protocols for Desorption Ionization Using through Hole Alumina Membrane (DIUTHAME); Yasuhide Naito¹; Masahiro Kotani²; Miu Takimoto²; Takayuki Ohmura²; ¹GPI, Hamamatsu, Japan; ²Hamamatsu Photonics K.K., Iwata, Japan
- MP 458 Large-Area Triboelectric Nanogenerator
 Nanoelectrospray Ionization; Marcos Bouza Areces^{1, 2};
 Yafeng Li¹; Changsheng Wu¹; Zhong Lin Wang^{1, 3}; Facundo
 M. Fernandez^{1, 2}; ¹Georgia Institute of Technology, Atlanta,
 GA; ²Center for Chemical Evolution, Atlanta, GA; ³Beijing
 Institute of Nanoenergy and Nanosystems, Chinese
 Academy of Sciences, Beijing, China
- MP 459 Routine Absorption Mode FTMS Data Display with an Ethoxylated Anionic Detergent as a Dual-Role (Mass and Phase) Calibrant; <u>Daniel Cole</u>¹; Peifeng Hu¹; ¹Baxter Healthcare, Round Lake, IL
- MP 460 Surface Effects in Droplet Chemistry Revealed by Transmission-Mode Liquid Desorption Electrospray Ionization; Taghi Sahraeian¹; Dmytro Kulyk¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- MP 461 Liquid Injection Field Desorption Ionization in a Host El/Cl Source of a Time-of-Flight Mass Spectrometer;

 Mathias Linden¹; H. Bernhard Linden¹; Jürgen H. Gross²;

 ¹Linden CMS GmbH, Weyhe, Germany; ²Institute of Organic Chemistry Heidelberg University, Heidelberg, Germany
- MP 462 Development of Vibrating Sharp-Edge Spray Ionization (VSSI) for Voltage-Free Mass Spectrometry Analysis;

 Peng Li¹; Xiaojun Li²; Nandhini Ranganathan²; Chong Li²;

 Stephen Valentine²; ¹West Virginia University, Morgantown;

 ²West Virginia University. C. Eugene Bennett Department of Chemistry, Morgantown, WV



- MP 463 Open Port Probe for Rapid Analysis of Biological Samples: Application to Drug Discovery; Stefan Thibodeaux; Novartis, Cambridge, MA
- MP 464 Next Generation Sample Introduction for High-Throughput Mass Spectrometry: Acoustic Droplet Ejection with an Open Port Probe; Lucien Ghislain¹; Chang Liu²; Hui Zhang³; Jianjua Liu⁴; Wenyi Hua³; Timothy Foley³; Don W. Arnold⁵; Thomas R. Covey²; Sammy S. Datwani⁶; ¹Labcyte Inc, San Jose, CA; ²SCIEX, Concord, ON; ³Pfizer, Groton, CT; ⁴Pfizer Inc., Groton, CT; ⁵SCIEX, Redwood Shores, CA; ⁶Labcyte Inc., San Jose, CA
- MP 465 All in One Paper-Based Sample Preparation Integrated with Instant Immunocapture for Targeted Protein Analysis; <u>Øystein Skjærvø</u>¹; Trine Grønhaug Halvorsen¹; Léon Reubsaet¹; ¹University of Oslo, Oslo, Norway
- MP 466 Spray-Capillary: An Electrohydrodynamic Spray-Assisted Device for Quantitative Ultra-Low Volume Extraction; Lushuang Huang¹; Zhe Wang¹; Si Wu¹; ¹University of Oklahoma, Norman, OK
- MP 467 Regeneration of Dormant Soil Communities by Hydration: A New Platform for Assessing Soil Activity by Direct Real-Time Mass Spectrometry; Karl Weitz¹; Montana L. Smith¹; Sheryl L. Bell¹; Ljiljana Paša-Tolió¹; Kirsten S Hofmockel¹; Nicole M. Lock²; Malak M. Tfaily¹. ³; Rosalie K. Chu¹; Mary S. Lipton¹; ¹Battelle Pacific Northwest National Laboratories, Richland; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ³University of Arizona, Tucson, AZ
- MP 468 A Microdroplet-Catalyzed Biginellireaction:
 Acceleration, Mechanisms and Separation of Isomers
 Using IMS-MS.; Navneet sahota¹; Deyaa I. AbuSalim¹;
 Melinda L. Wang¹; Tarick J. El-Baba¹; Silas P. Cook¹; David
 E. Clemmer¹; ¹Indiana University, Bloomington, IN
- MP 469 Development of a 70kV Water Cluster Source for High-Resolution 3D Bio-Imaging; Allen Bellew¹; Sadia Sheraz née Rabbani²; Hua Tian³; Paul Blenkinsopp¹; Peter J Cumpson⁴; Nicholas Winograd⁵; ¹lonoptika Limited, Chandler's Ford, United Kingdom; ²Manchester Institute of Biotechnology, University of Manchester, United Kingdom; ³Department of Chemistry, Pennsylvania State University, PA; ⁴School of Mechanical and Systems Engineering, Newcastle University, United Kingdom; ⁵Department of Chemistry, Pennsylvania State University, University, Park, PA

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- MP 470 Enrichment of Xenon Gas for Targeted Isotope Ratio
 Mass Spectrometry Utilizing a Digital Ion Trap; Timothy
 Vazquez¹; Colette Taylor¹; Sean Williams¹; Emily Smith¹;
 Theresa Evans-Nguyen¹; ¹University of South Florida,
 Tampa. FL
- MP 471 Back to Initial Ideas. Harmonized Kingdon Traps with Wire Internal Electrodes; Eugene (evgeny) Nikolaev¹; Oleg Kharybin¹; Gleb Vladimirov¹; Petr Borisovets¹; Anton Lioznov¹; Anastasia Fursova¹; ¹Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 472 Analytical Solution for the Electric Field Inside Dynamically Harmonized FT-ICR Cell; Anton Lioznov¹; Goekhan Baykut²; Eugene (evgeny) Nikolaev¹; ¹Skolkovo institute of science and technology, Moscow Region, Russian Federation; ²Bruker Daltonik GmbH, Bremen, Germany
- MP 473 A Novel Ion Guide Achieving High Transmission Efficiency under a Strong Gas Flow; Masuyuki Sugiyama¹; Hideki Hasegawa¹; Yuichiro Hashimoto²; ¹Hitachi, Ltd., Tokyo, Japan; ²Hitachi high-technologies corporation, Hitachinaka, Japan

- MP 474 Charge Detection Mass Spectrometry of Microparticles Using Printed Circuit Board Electrode Arrays; Elaura Gustafson¹; Halle V. Murray¹; Yixin Song¹; Jace Rozsa¹; Shiuh-hua Chiang¹; Aaron R. Hawkins¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT
- MP 475 Optimization of the Ions Trajectories in a Dynamically Harmonized Fourier-Transform Ion Cyclotron Resonance Cell Using a Design of Experiments Strategy; Julien Maillard^{1, 2}; Justine Ferey¹; Isabelle Schmitz-Afonso¹; Soumeya Bekri³; Thomas Gautier²; Nathalie Carrasco²; Carlos Afonso¹; Abdellah Tebani³; ¹Université de Rouen, Laboratoire COBRA UMR 6014 & FR 3038, IRCOF, Mont St Aignan Cedex, France; ²LATMOS/IPSL, Université Versailles St Quentin, UPMC Université Paris 06, CNRS, Guyancourt, France; ³Department of Metabolic Biochemistry, Rouen University Hospital, Rouen, France
- MP 476 Simulation of a Quadrupole Mass Filter Employing a Digital Waveform and Discontinuous Ion Introduction to Obtain High Resolution and Transmission; David Langridge¹; Martin Green¹; Benjamin Jeffrey²; Robert Appleby²; ¹Waters Corporation, Wilmslow, United Kingdom; ²University of Manchester, Manchester, United Kingdom
- MP 477 Evaluation of Two-Dimensional Mass Spectrometry
 Scans Using a Linear Ion Trap; Lucas Szalwinski¹; Dalton
 Snyder²; Zachary St. John³; Graham R. Cooks¹; ¹Purdue
 University, West Lafayette, IN; ²Resource for Native Mass
 Spectrometry Guided Structural Biology, Columbus, OH;
 ³The College of New Jersey Department of Chemistry,
 Ewing Township, New Jersey
- MP 478 Application of CAN bus in Mass Spectrometer Design; Ming Li¹; Kai Li¹; Xingbin Tang¹; ¹NCS Testing Technology Co., Ltd, Beijing, China
- MP 479 Improvement of Electron Capture Efficiency in an RF Ion Trap by optimized Design of Magnetic Field; Keqin Chen¹; Goran Ristic¹; Pavel Ryumin¹; Bill Loyd¹; Takashi Baba¹: ¹SCIEX, Concord, ON
- MP 480 Advancement and Applications of Harmonic FTICR-MS Signals for Proteome Research; Sung-Gun Park¹; Jared P. Mohr¹; Gordon Anderson²; James E. Bruce¹; ¹University of Washington, Seattle, WA; ²GAA Custom Engineering, LLC, Benton, WA
- MP 481 Detection of Bacteria Growth by ESI Ion Trap Mass Spectrometer; Chun-Jen Hsiao¹; Jung-Lee Lin¹; Abdil Özdemir²; Chung-Hsuan Chen¹; ¹Genomics Research Center Academia Sinica, Taipei, Taiwan; ²Department of Chemistry, Faculty of Arts and Sciences, Sakarya University, Esentepe, Turkey
- MP 482 Characterization of Digital Mass Analysis in a Linear Trap without Resonant Ejection; Margaret E. Reece¹; Adam P. Huntley¹; Peter T. A. Reilly¹; Washington State University, Pullman, WA
- MP 483 Methods to improve the Extraction Efficiency and Resolution of the Mass Selective Axial Ejection from a Linear Quadrupole Ion Trap; Mircea Guna; SCIEX, Concord. ON
- MP 484 Design and Performance Improvement of an Ion Cooling Cell for a Quadrupole Mass Spectrometer;

 Tsung-Chi Chen¹; Eric C. Hemenway¹; Paul H. Gregory¹;
 Raman Mathur¹; Hans Schweingruber¹; Oleg Silivra¹;
 Viatcheslav V. Kovtoun¹; Michael Ugarov¹; Jae C.
 Schwartz¹; Alan E. Schoen¹; ¹ThermoFisher, San Jose, CA
- MP 485 Improving the Coded Aperture Imaging in a Coded-Aperture Cycloidal Mass Spectrometer; Raul Vyas¹; Philip J. Herr¹; Kathleen L Horvath¹; Tanouir Aloui¹; Matthew P. Kirley¹; Charles B. Parker¹; Adam D. Keil²; James B. Carlson³; Roger P. Sperline⁴; M Bonner Denton⁴; Brian R. Stoner¹; Michael E. Gehm¹; Jeffrey T Glass¹; Jason J Amsden¹; *Duke University, Durham, NC; *2Broadway



- Analytical, LLC, Monmouth, IL; ³RTI International, Research Triangle Park, NC; ⁴University of Arizona, Tucson, AZ
- MP 486 A Method to Determine the Mathematical Form of a Toroidal Trap Potential Starting with a Trap Geometry in SIMION® 8.1.; Robert H. Jackson¹; Stephen A. Lammert²; Atanu K. Mohanty³; Xiao Wang⁴; ¹Instrumental Design Physics, Littleton, MA; ²PerkinElmer Inc., American Fork, UT; ³Indian Institute of Science, Bangalore, India; ⁴PerkinElmer, American Fork, UT
- MP 487 Increasing the Mass Range of Ion-Ion Reactions in a Quadrupole Ion Trap with Waveform Switching; Kenneth W Lee1; Gregory S. Eakins1; Mark S. Carlsen1; Scott A. Mcluckey1; "Purdue University, West Lafayette, IN
- MP 488 Portable Ion Trap Mass Spectrometer with Paper Spray Ionization and Comprehensive Scan Modes for V-series Chemical Warfare Agent Identification; Paul S Demond¹; Dalton Snyder²; Ethan M McBride³; Carmany Daniel¹; Elizabeth S Dhummakupt³; Phillip M Mach³; R. Graham Cooks²; Trevor Glaros³; **IExcet, Inc., Springfield, VA; **Purdue University, West Lafayette, IN; **3ECBC, Aberdeen Proving Ground. Maryland
- MP 489 Design and Performance of a Rotating Wall Analyzer for High-Throughput Ion Soft Landing; Pei Su¹; Hang Hu¹; Don Gunaratne²; Julia Laskin¹; ¹Purdue University, West Lafayette, IN; ²Pacific Northwest National Laboratory, Richland. WA
- MP 490 Theoretical and Experimental Validation of High-Resolution Linear Time-of-Flight Mass Spectrometry; Sheng-Wei Wu^{1, 2}; Yu-Meng Ou^{1, 2}; Yi-Hong Cai¹; Chih-Hao Hsiao¹; Cheng-Kai Jan¹; Yi-Sheng Wang¹; 'Academia Sinica, Taipei City, Taiwan; ²National Taiwan University, Taipei, Taiwan
- MP 491 Recent Development in Improving the Precision of Quantitative Analysis for Linear Ion Trap(LIT) and LIT-Orbitrap Tandem Mass Spectrometry; Linfan Li¹; Taoqing Wang²; Anyin Li²; Jae C Schwartz¹; ¹Thermo Fisher Scientific, San Jose, CA; ²University of New Hampshire, Durham, NH
- MP 492 Application of a Triple Quadrupole MS with Acquisition Speed Improvements for Pesticide Analysis; Harald Oser¹; Michael Ugarov²; Qingyu Song³; Michael Konicek¹; Claudia P.B. Martins⁴; Neloni Wijeratne⁴; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, San Jose, CA; ¹ThermoFisher, San Jose, CA; ¹ThermoFisher, San Jose, CA
- MP 493 Negative lons Detection with a Spaceflight-Designed Orbitrap-Based Mass Analyzer; Barnabé Cherville¹; Christelle Briois¹; Laurent Thirkell¹; Bertrand Gaubicher¹; Fabrice Colin¹; ¹Laboratoire de Physique et de Chimie de l'Environnement et de l'Espace, Orléans, France
- MP 494 High Throughput Charge Detection Mass Spectrometry;

 <u>Daniel Botamanenko</u>¹; Aaron R. Todd¹; Martin F Jarrold¹;

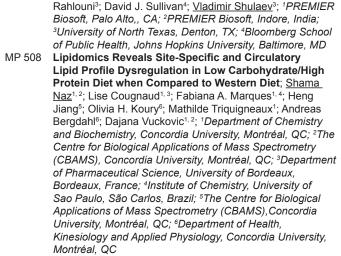
 'Indiana University, Bloomington, IN

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- MP 495 Quantitative Macrolipidomics of Human Whole Blood for the Discovery of Novel Biomarkers of omega-3 Polyunsaturate; <u>Juan Aristizabal-Henao</u>¹; Ningombam Sanjib Meitei²; Anja Pia Biltoft-Jensen³; Ken D. Stark¹;

 1 University of Waterloo, Waterloo, ON; 2 PREMIER Biosoft, Palo Alto, CA; 3 Denmark Technical University, Lyngby, Denmark
- MP 496 Untargeted Lipidomics Reveals Glycerolipid Compositional Changes in Fasted, Cold-Exposed MCAD KO Mice; wenxuan zhang; University Medical center Groningen, Groningen, Netherlands
- MP 497 A Rapid Ion Mobility Enabled LC-MS Plasma Lipid Profiling Assay for Breast Cancer Biomarker Discovery;

- Adam M King¹; Jimmy Yuk²; Robert D Trengove³; Lauren G Mullin²; Paul D Rainville²; Giorgis Isaac²; Robert S Plumb²; Lee A Gethings⁴; Ian D Wilson⁵; ¹Waters corporation, Wilmslow, United Kingdom; ²Waters Corporation, Milford, MA; ³Murdoch University, Perth, Australia; ⁴Waters Corporation, Wilmslow, United Kingdom; ⁵Imperial College, London, United Kingdom
- MP 498 AcquireX Workflow Evaluation for Deciphering
 Lipidome Analysis of Lipids from Whole Insects Using
 Chromatography Based Methods with High-Resolution
 Orbitrap MSn; Daniel Gachotte¹; Yelena A Adelfinskaya¹;
 Jeffrey Gilbert¹; Reiko Kiyonami²; David Peake²; Yokoi
 Yasuto³; ¹Corteva Agriscience, Indianapolis, IN; ²Thermo
 Fisher Scientific, San Jose, CA; ³Mitsui Knowledge Industry,
 Tokyo, Japan
- MP 499 Red Blood Cell Membrane Fatty Acids in U. S. Blood Donors; Carissa D. Powers¹; David C. Scully²; Rosemary L. Schleicher¹; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²CDC Foundation, Atlanta, GA
- MP 500 Tracking the Incorporation of Host Serum Lipids into the Membrane Lipids of Staphylococcus aureus with HILIC-IM-MS; Kelly M. Hines¹; Gloria Alvarado²; Craig Gatto²; Antje Pokorny³; Brian J. Wilkinson²; Libin Xu¹; ¹University of Washington, Seattle, WA; ²Illinois state university, Normal, IL; ³University of North Carolina Wilmington, Wilmington, NC
- MP 501 Lipid Pool Coupling Analysis Based on Tandem Mass Spectrometric Data; Jakob Koch¹; Gregor Oemer²; Katrin Watschinger³; Sabrina Sailer³; Herbert Lindner⁴; Johannes Zschocke²; Markus A. Keller²; ¹Division of Human Genetics, Medical Unversity of Innsbruck, Innsbruck, Austria; ²Division of Human Genetics, Medical Unversity of Innsbruck, Innsbruck, Biocenter, Medical University of Innsbruck, Innsbruck, Austria; ⁴Division of Clinical Biochemistry, Biocenter, Medical University of Innsbruck, Innsbruck, Austria
- MP 502 The Age of Dermal Fibroblasts in the Tumor Microenvironment Mediate Melanoma Cell Lipid Remodeling; Aaron R. Goldman¹; Gretchen M. Alicea^{1, 2}; Delaine M. Zayas-Bazán^{1, 3}; Hsin-Yao Tang¹; Ashani T. Weeraratna¹; David W. Speicher¹; ¹The Wistar Institute, Philadelphia, PA; ²University of the Sciences, Philadelphia, PA; ³University of Pennsylvania, Philadephia, PA
- MP 503 Unconventional Synthesis of F-Series Prostaglandins from Lysate of *C. elegans* and their Identification by LC-MS/MS; Ekta Tiwary¹; Muhan Hu¹; Landon S. Wilson¹; Taylor F. Berryhill¹; Michael A Miller¹; <u>Jeevan Prasain</u>¹; ¹University of Alabama at Birmingham, Birmingham, AL
- MP 504 Sphingolipid Phenotype of Adipocyte APP-Overexpressing Mice by LC/MS/MS and SCF/MS/MS; Yu An¹; Sarah Olive²; Benjamin Figard²; Philipp E. Scherer¹; Ruth Gordillo¹; ¹UTSouthwestern Medical Center, Dallas, TX; ²Shimadzu Scientific Instruments, Inc., Columbia, MD
- MP 505 A New Lipidomics Software Workflow Demonstrates Disrupted Lipogenesis Induced with Drug Treatment in Leukemia Cells; Mark Sartain¹; Genevieve Van de Bittner¹; Xiangdong Li¹; Jeremy Koelmel²; Adithya Murali¹; Sarah Stow¹; 'Agilent Technologies, Santa Clara, CA; 'Department of Chemistry, University of Florida, Gainesville, FL
- MP 506 Desorption Electrospray Ionization Coupled to High Field Asymmetric Ion Mobility Mass Spectrometry Imaging for Investigating Cardiolipin Aberrations in Brain Cancer; Anna C Krieger¹; Clara Feider¹; J. Clay Goodman²; Livia S. Eberlin¹; ¹The University of Texas at Austin, Austin, TX; ²Departments of Pathology & Immunology and Neurology, Houston, TX
- MP 507 Lipid Profiling of Malaria Samples Using Orbitrap Velos Pro Mass Spectrometer with SimLipid Software; Ningombam Sanjib Meitei¹,²; Himani Gupta²; Fatima



- MP 509 A Comprehensive Profiling Method for Regulatory Lipid Mediators Using UPLC TimsTOF; Jun Yang¹; Xuejun Peng²; Debin Wan¹; Bruce D Hammock¹; ¹Department of Entomology and Nematology, University of California, Davis, Davis, CA; ²Bruker Daltonics Inc., San Jose, CA
- MP 510 MRM-Profiling as an Analytical Strategy to Perform the Analysis of Lipids in Extracellular Vesicles; Madison

 E. Edwards¹; Thomas De Luca²; Christina R. Ferreira¹;
 Tiago J. P. Sobreira¹; Eric A. Benson²; R. Graham Cooks¹;

 **Purdue University, West Lafayette, IN; **Indiana University School of Medicine, Indianapolis, Indiana
- MP 511 Untargeted Lipidomic Profiling of Bis(monoacylglycero) phosphate Lipids in Cancer Cells and Tumor Tissues Point to Transformation Specific Regulation of Acyl Chains; Megan Showalter¹; Anastasia Berg²; Michael Sa¹; Hiroshi Tsugawa³; Tobias Kind¹; Kermit Carraway, III²; Oliver Fiehn¹; ¹UC Davis West Coast Metabolomics Center, Davis, CA; ²Department of Biochemistry and Molecular Medicine UC Davis, Sacramento, CA; ³RIKEN Center for Sustainable Resource Science, Wako, Japan
- MP 512 Lipids is the Promising Biomarker to Classify HCC Cell Lines' Subtype Using SALDI-MS; Tao Wang¹; Jianmin Wu¹; ¹Zhejiang University, Hangzhou, China
- MP 513 Comprehensive LC-MS Lipidomic Analysis of Viral and Plasma Lipid Alterations in SIV-Infected Rhesus Macaques Treated with and without Antiretroviral Agents; Yong Jiang¹; Sijia Tao¹; Christina Gavegnano¹; Ruby R Kleinbard¹; Raymond F Schinazi¹; ¹Center for AIDS Research, Department of Pediatrics, Emory University, Atlanta, GA
- MP 514 Lipidomic Analysis of IKE-Induced Ferroptosis in Lymphoma Mouse Model; Fereshteh Zandkarimi¹.²; Yan Zhang³; Hui Tan³; Jacob D. Daniels⁴; Hengrui Liu³; Lewis M. Brown¹.²; Brent R Stockwell¹.³; ¹Department of Biological Sciences, Columbia University, New York, NY; ²Quantitative Proteomics and Metabolomics Center, New York, NY; ³Department of Chemistry, Columbia University, New york, NY; ⁴Department of Pharmacology, Columbia University Medical Center, New York, NY
- MP 515

 Stools Lipid Profiling by HILIC LC-MS/MS A Step Forward to a Non-Invasive Diagnostic of Diseases;

 Justine Hustin¹; Raphaël La Rocca¹; Johann Far¹; Delphine Debois²; Edwin De Pauw¹; Gauthier Eppe¹; Loïc Quinton¹;

 ¹University of Liege, MS Lab GIGA, MolSys Research Unit, Liege, Belgium; ²ZenTech S.A., Liege, Belgium
- MP 516 Untargeted Lipidomics Analysis Reveals Effect of Abomasal Omega-3 Fatty Acid Infusion on Bovine Lipidome; William Myers¹; Eduardo Rico¹; Joseph W McFadden¹; Maria Elena Diaz Rubio¹; Sheng Zhang¹; ¹Cornell University, Ithaca, NY

- MP 517 Quantitative Analysis of Phospholipids and Triacylglycerol Lipids by Multiple Reaction Monitoring Profiling (MRM-Profiling); Zhuoer Xie¹; Christina R. Ferreira¹; Alessandra A. Vireque²; Tiago J. P. Sobreira¹; R. Graham Cooks¹; ¹Purdue University, West Lafayette, IN; ²Invitra, Assisted Reproductive Technologies Ltd., Ribeirão Preto. Brazil
- MP 518 Separating and Profiling Phosphatidylcholines and Triglycerides from Single Lipid Droplet in HepG2 Cells by In-Tip Solvent Microextraction Mass Spectrometry; Yaoyao Zhao¹; Hitoshi Chiba²; Shu-Ping Hui³; ¹Hokkaido University, Sapporo, Japan; ²Sapporo University of Health Sciences, Sapporo, Japan; ³Hokkaido University, Sapporo, Japan
- MP 519 Lipidomic Profiling of Pancreatic Cancer Extracellular Vesicles Reveals Unique Signatures; Shivani Bansal¹; Charles P. Hinzman¹; Michael Girgis¹; Giorgis Isaac²; Nyasha Munjoma²; Amrita K. Cheema¹; ¹Georgetown University Medical Center, Washington, DC; ²Waters Corporation, Milford, MA
- MP 520 Novel Findings in HILIC Based LC-MS/MS Methods for Targeted Lipidomics Profiling; Goncalo Vale¹; Sarah Martin²; Mackenzie Pearson³; Jeffery G. McDonald¹;

 1 UT Southwestern, Dallas, TX; 2 Agios Pharmaceuticals, Cambridge, MA; 3 Sciex, Redwood City, CA
- MP 521 Development and Deployment of a Lipidomics
 Platform for the Characterization of Lipid Composition
 Differences in Strains of Bacillus subtilis; David
 Reeves¹.²; Suresh Poude¹³; Robert L. Hettich¹.³;
 ¹University of Tennessee, Knoxville, TN; ²Oak Ridge
 National Laboratory, Oak Ridge, TN; ³Oak Ridge National
 Laboratory, Oak Ridge, Tennessee
- MP 522 Separation and Detection Method for the Profiling of Glycosphingolipids Using Liquid Chromatography Fluorescence Mass Spectrometry (LC-FLD-MS);

 Bela Reiz¹; Radhika Chakraberty¹.²; Randy M. Whittal¹; Christopher W. Cairo¹.²; ¹Department of Chemistry, University of Alberta, Edmonton, Alberta; ²Alberta Glycomics Centre, Edmonton, Alberta
- MP 523 Combination of Distinctive Features Allows Rapid and Reliable Brain Tumor Tissue Identification; Anatoly Sorokin^{1, 2}; Stanislav Pekov^{1, 3}; Vsevolod Shurkhay^{1, 4}; Vasiliy Eliferov¹; Konstantin Bocharov¹; Veronika Storozhilova¹; Igor Popov^{1, 3}; Alexander Potapov⁴; Eugene (evgeny) Nikolaev⁵; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; ²Institute of Cell Biophysics RAS, Pushchino, Russia; ³Institute for Energy Problems of Chemical Physics RAS, Moscow, Russia; ⁴N. N. Burdenko Scientific Research Neurosurgery Institute, Moscow, Russia; ⁵Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 524 Mapping the Lipid Transducers of Exercise in Rats and Human Subjects; David Gaul¹; Sam Moore¹; Alexandra Coomes²; Collin Douglas²; Karyn Esser²; Neil Johannsen³; Kate Early⁴; ¹Georgia Institute of Technology, Atlanta, GA; ²University of Florida, Gainesville, FL; ³Louisiana State University, Baton Rouge, LA; ⁴Columbus State University, Columbus, GA
- MP 525 Development of Phospholipids Profiling of Mouse Tissues by PRM and Quantitative MS1 Multiplexing; Xiaorong Fu¹; Goncalo Vale²; Jeffrey G. M. McDonald¹; Matthew Mitsche¹; ¹UT Southwestern Medical Center, dallas, Texas; ²University of Texas Southwestern Medical Center, dallas, Texas
- MP 526 **S6K2** Inhibition Causes Lipid Remodeling and Reduced Growth in NRAS Mutant Melanoma Cells; Delaine M. Zayas-Bazán¹.²; Aaron R. Goldman²; Yun Hao².³; Hsin-Yi Chen²; Jessie Villanueva²; David W. Speicher²; ¹University of Pennsylvania, PA, PA; ²The Wistar Institute, Philadelphia, PA; ³University of Pennsylvania, Philadelphia



- MP 527 Rapid and Sensitive Characterization of FAHFA Lipids
 Using an Untargeted Lipidomics Approach; Tong Shen¹;
 Bryan Roberts¹; Oliver Fiehn¹; ¹UC Davis West Coast
 Metabolomics Center, Davis, CA
- MP 528 Mapping the Algal Lipidome to Expand the Biofuel and Bioproduct Portfolio; Peter V. Shanta¹; Steven M. Rowland¹; Stefanie Van Wychen¹; Tao Dong¹; Lieve M. Laurens¹; ¹National Renewable Energy Laboratory, Golden, CO
- MP 529 Effects of Various Temperature Related Storage
 Conditions on Human Plasma and Serum Lipid Profile;
 Greg B Reis¹; Jon Rees¹; Zsuzsanna Kuklenyik¹; ¹Centers
 for Disease Control and Prevention, Atlanta, Georgia

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- MP 530 MSI and LC-MS Reveals Alterations of Phosphoinositides in Niemann-Pick Disease, Type C1; Koralege Praneeth Chandimal Pathmasiri¹; Melissa R Pergande¹; Fernando Tobias¹; Stephanie M Cologna¹; ¹University of Illinois at Chicago, Chicago, IL
- MP 531 Mass Spectrometric Assessment on the Biological Fate of Gemini Surfactants Used as Gene Delivery Agents;
 Wei Jin¹; Mays Al-Dulaymi¹; Randy Purves²; Ildiko Badea¹; Anas El-Aneed¹; ¹University of Saskatchewan, Saskatoon, SK; ²Centre for Veterinary Drug Residues, Canadian Food Inspection Agency, Saskatoon, SK
- MP 532 Ion Suppressing Contaminants Generated by Multiple Injections from the Same Sample Vial Negatively Impact Reverse Phase Based-Lipidomics Experiments; Peter Benke¹; Bo Burla¹; Kim Ekroos²; Markus R Wenk¹; Federico Torta¹; *National University of Singapore, Singapore, Singapore; *2Lipidomics Consulting Ltd. Esbo. Finland
- MP 533 High-Throughput, Comprehensive Lipid/Protein Composition and Particle Number Analysis of Lipoproteins in Normal and Dyslipidemic Patients; John R. Barr¹; Michael Stephen Gardner¹; Zsuzsanna Kuklenyik¹; David Schieltz¹; Antony Lehtikoski²; Jennifer Kusovschi¹; Jon Rees¹; Christopher Toth¹; Michael S. Andrews¹; Bryan M. Parks¹; James L Pirkle¹; ¹CDC, Atlanta, GA; ²Battelle Memorial Institute at the Centers for Disease Control and Prevention. Atlanta. GA
- MP 534 High-Throughput Targeted Lipidomics Analysis of Dihydroceramide Desaturase-1 (DES1) Knockout Mice;

 Mackenzie Pearson¹; Santosh Kapil¹; Trevor S Tippets²;

 Scott A Summers²; ¹Sciex, Redwood City, CA; ²University of Utah, Salt Lake City, UT
- MP 535 An Inhibitor of iPLA2y, R-BEL, Prevents Lipid Mediator Generation in the Ileum and Leads to Radiomitigation after Total Body Irradiation.; Vladimir Tyurin¹; Yulia Tyurina¹; Andrew Amoscato¹; Louis J. Sparovero¹; Michael Epperly¹; Claudette St. Croix¹; Alan Watson¹; Simon Watkins¹; Joel Greenberger¹; Hulya Bayir¹; Valerian Kagan¹; ¹University of Pittsburgh, Pittsburgh, PA
- MP 536 P. aeruginosa Lipoxygenase (pLoxA) Generates
 Ferroptotic Cell Death Signals in Host Human Bronchial
 Epithelial Cells: LC/MS Study.; Yulia Tyurina¹; Dar Haider¹;
 Vladimir Tyurin¹; Andrew Amoscato¹; Joseph Joseph¹; Rama
 Mallampalli²; Hülya Bayır¹; Valerian Kagan¹; ¹University
 of Pittsburgh, Pittsburgh, PA; ²The Ohio State University,
 Columbus, OH
- MP 537 A Rapid Quantitative Method for Analysis of Oxidation Products of Cholesteryl Linoleate, Total Cholesteryl Esters, and Free Cholesterol by LC-APCI-MS/MS; Michael Gardner¹; Jon Rees²; Gregory Reis²; Lisa G. McWilliams²; Zsuzsanna Kuklenyik²; John R. Barr²; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²Centers for Disease Control and Prevention, Atlanta, Ga
- MP 538 Improved High-Throughput Targeted Lipidomic Analysis with sMRM Pro Builder; Santosh Kapil Kumar Gorti¹; Mackenzie Pearson²; Sean seymour³; Christie Hunter⁴; Paul

- Baker⁴; ¹SCIEX, Framingham, MA; ²Sciex, Framingham, MA; ³Seymour Data Science, San Francisco, California; ⁴Sciex, Redwood City, CA
- MP 539 Enhanced Quantification of LPA 18:1 in Plasma with Differential Mobility Separation Technology; Cyrus Papan¹; Joerg Dojahn¹; Sean Wu²; ¹SCIEX, Darmstadt, Germany; ²Sciex, Framingham, MA
- MP 540 Quantifying the Lipidome for Respiratory Disease:
 A Rapid and Comprehensive HILIC-Based Targeted
 Approach; Giorgis Isaac¹; Nyasha Munjoma²; Lee A
 Gethings²; Robert S Plumb¹; ¹Waters Corporation, Milford,
 MA; ²Waters Corporation, Wilmslow, United Kingdom
- MP 541 Identification and quantitation of Lysophosphatidic Acid Regioisomeric Species in Mouse Plasma; Juan Aristizabal-Henao¹; Maria Fernanda Fernandes¹; Robin E Duncan¹; Ken D. Stark¹; ¹University of Waterloo, Waterloo, ON
- MP 542 Combinatorial Chemistry to Synthesize
 Glycerolipidomic Mixtures with an Arbitrary Number
 of Components of Known Concentration; Tom Brenna¹;
 Dong Hao Park¹; ¹University of Texas at Austin. Austin. TX
- MP 543 Semi-targeted Profiling of Fatty Acids Using Picolylamide Derivatization and C30 Reverse Phase Chromatography Coupled with High Resolution Tandem Mass Spectrometry; Lucas Veillon¹; Marc O. Warmoes¹; Philip L Lorenzi¹; John N Weinstein¹; ¹MD Anderson Cancer Center, Houston, TX
- MP 544 Ganglioside Lipidomics in Human Dried Blood Spots Utilizing micro-LC/MS and MS/MS; Asoka Ranasinghe¹; Celia D'Arienzo²; Timothy Olah²; **1Bristol-Myers Squibb Company, Princeton, NJ; **2Bristol-Myers Squibb Co., Princeton, NJ
- MP 545 Dual Mass Spectrometry as a Tool to Improve Annotation and Quantification in Targeted Plasma Lipidomics; Liang Gao¹; Amaury Cazenave-Gassiot²; Bo Burla¹; Markus R Wenk³; Federico Torta³; ¹Singapore Lipidomics Incubator (SLING), Life Sciences Institute, National University of Singapore, Singapore, Singapore; ²Department of Biochemistry, Yong Loo Lin School of Medicine, National University of Singapore, Singapore
- MP 546 Comprehensive Metabolic Profiling of Eicosanoids and Related Fatty Acids of Serum or Plasma by a Widely Targeted LC-MS/MS; Masaki Yamada¹; Huan Lin¹; Takanari Hattori¹; ¹Shimadzu corp., Kyoto, Japan
- MP 547 FIA-HRMS-Based Lipidomics Method: Comparing Measured Lipid Concentration Calculated Using Parent Molecular Ion Abundance Versus Sum of Product Ions Abundances; Alexander Triebl¹; Federico Torta¹; Himani Gupta²; Ningombam Sanjib Meitei².³; Rupanjan Goswami²; ¹Singapore Lipidomics Incubator (SLING), Department of Biochemistry, YLL School of Medicine, National University of Singapore, Singapore; ²PREMIER Biosoft, Indore, India; ³PREMIER Biosoft, Palo Alto, CA
- MP 548 Alteration of Lipidome Due to Vitamin B12 Deficiency;
 Akash Kumar Bhaskar¹,²; Khusbhoo Adlakha¹; Salwa
 Naushin¹,²; Arjun Ray¹; Praveen Singh¹,²; Monu Kumar¹;
 Akanksha Singh³; Dipankar Malakar³; Christie Hunter⁴;
 Shantanu Sengupta¹,²; ¹CSIR-Institute of Genomics and
 Integrative Biology, New Delhi, India; ²Academy of Scientific
 & Innovative Research, New Delhi, India; ³SCIEX, Gurgaon,
 India; ⁴Sciex, Redwood City, CA
- MP 549 Analysis of Fatty Acids in GEMM Lymphatic Tumors with Mass Spectrometry: GC-MS Versus LC-MS; Min Liu¹; Jayden Cline¹; Kristen E.N. Scott¹; David C. Koomen¹; John M. Koomen¹; John L. Cleveland¹; ¹Moffitt Cancer Center, Tampa, FL



- MP 551 Fast Supercritical Fluid Chromatography Separation and Shotgun Lipidomics with High Resolution Mass Spectrometry for the Study of Breast Cancer Metastasis; Sheher Mohsin¹; Ningombam Sanjib Meitei²; Peter Siegel³; Daina Avizonis⁴; Gaelle Bridon⁵; ¹Agilent Technologies, Schaumburg, IL; ²PREMIER Biosoft, Indore, India; ³Goodman Cancer Research Centre, Montreal, QC; ⁴Goodman Cancer Research Centre, Quebec, Montreal, Canada; ⁵Agilent Technologies, Inc., Wilmington, DE
- MP 552 Analysis, Re-Analysis, and Quantitative Comparison of Lipidomics Using 13C-Labeled Cultures for Internal Standardization.; Peining Xu¹; Joyce Liu²; Sophie Trefely¹.²; Clementina Mesaros³; Kathryn E. Wellen²; Nathaniel W Snyder¹; ¹Drexel University, Philadelphia, PA; ²University of Pennsylvania, Philadelphia, PA; ³University of Pennsylvania, Philadelphia, PA
- MP 553 Stable Isotope Labeling to Study Synaptamide Biosynthesis in Neuronal Cell Culture; Karl R Kevala¹; Michel Lagarde²; Arthur Spector¹; Hee-Yong Kim¹; ¹NIAAA/ NIH, Rockville, MD; ²Universite de Lyon, INSA, Lyon, France
- MP 554 *in vivo* Measurement of Oxylipins in Rat Brain Using Solid-Phase Microextraction and LC-MS; Alexander Napylov¹; Nathaly Reyes Garces²; Mariola Olkowicz²; Sofia Lendor²; Ezel Boyaci²; German Gomez-Rios²; Cian Monnin¹; Mustansir Diwan³; Barbara Bojko²; Clement Hamani³; Janusz Pawliszyn²; Dajana Vuckovic⁴; ¹Concordia University, Montreal, Qc; ²University of Waterloo, Waterloo; ³Sunnybrook Health Sciences Centre, Toronto, ON; ⁴Concordia University, Montreal, QC
- MP 555 A Comparative Lipidomic Analysis between 2D and 3D Cell Culture of Adipocytes Derived from Mouse Primary Cell; Jonghyun Kim¹; Kyoung-Jin Choi²; Sung Bum Park²; Yoon-Ju Na³; Ki Young Kim²; Tae-Young Kim¹; Gwangju Institute of Science & Technology, Gwangju, South Korea; Therapeutics & Biotechnology Division, Korea Research Institute of Chemical Technology, Daejeon, South Korea; Department of New Drug Discovery and Development, Chungnam National University, Daejeon, South Korea
- MP 556 Comparison of Various Orthogonal Instrumental Approaches to Lipidomics Analysis of Human Blood;
 Ken Riedl¹; Ella Lin¹; Kiran Boyinepally¹; Ewy Mathe¹; ¹The Ohio State University, Columbus, OH
- MP 557 Machine Learning Perspectives on Region of Interest Identification and Analysis in DESI Spectrometry; Austin Ahlstrom¹; John C Price²; ¹Brigham Young University, Provo, UT; ²Brigham Young University, Provo, Utah
- MP 558 Stable Isotope Labeling by Permethylation and Reversed-Phase LC/MS for Relative Quantification of Intact Neutral Glycolipids in Mammalian Cells; Rodell Barrientos^{1, 2}; Qibin Zhang^{1, 2}; ¹Department of Chemistry and Biochemistry, University of North Carolina at Greensboro, Greensboro, NC; ²UNCG Center for Translational Biomedical Research, Kannapolis, NC

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MP 559 THE SPECTRUM FACTORY: A New Workflow for the Creation of Libraries of Unknown Mass Spectra from Known Precursor Compounds; John M. Halket¹; Anna M. Caldwell²; W. Gary Mallard³; Stephen E. Stein³; ¹King's College London, London, United Kingdom; ²King's College London, London, United Kingdom; ³NIST, Gaithersburg, MD

- MP 560 Using Stable Isotope Labeling to Facilitate Unknown Metabolite Identification: A Case Study of Yeast Gene YNL010W; Wenyun Lu¹; Yifan Xu²; Joshua D. Rabinowitz¹; ¹Princeton University, Princeton, NJ; ²DuPont Industrial Biosciences, Wilmington, DE
- MP 561 Novel Deep Annotation Strategies for Non-Targeted Plant Metabolomics Based on High Resolution Mass Spectrometry; Zaifang Li¹; chunxia Zhao¹; Xiuqiong Zhang¹; Yueyi Xia¹; Hua Zhang¹; Xin Lu¹; Guowang Xu¹; ¹CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- MP 562 Identification of Metabolites from Averrhoa camambola L. Bark by Combination of Paper Spray & Electrospray Ionization Mass Spectrometry; Syful Islam¹; Md Badrul Alam²; Arif Ahmed²; Sunghwan Kim²; *Department of Chemistry, Kyungpook National University, Daegu, South Korea; *Kyungpook National University, Daegu, South Korea
- MP 563 Discovery of Unknown Metabolic Interactions of Microbiota & Human Host Combining Novel Metabolomics and Chemical Biology Methodologies;

 Daniel Globisch^{1, 2}; Louis P. Conway¹; Mario S. P. Correia¹; Caroline Ballet¹; Neeraj Garg¹; ¹Uppsala University, Uppsala, Sweden; ²SciLifeLab, Uppsala, Sweden
- MP 564 Detecting Low Abundant Endogenous Cardiac Steroids from Biological Fluids Using Structure-Based MSn Approach On an OrbitrapTMTribridTM MS; Reiko Kiyonami¹; Michael Harrington²; Alfred Fonteh²; Roger Biringer³; Andreas Huhmer¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Huntington Medical Research Institutes, Pasadena, CA; ³LECOM Bradenton, Bradenton, FL
- MP 565 Magnetic Resonance Mass Spectrometry Profiling of Myxobacterial Extracts Higher Resolution, Deeper Insights?; Chantal Bader¹; Patrick Haack¹; Fabian Panter¹; Matthias Witt²; Daniel Krug¹; Rolf Müller¹; ¹Helmholtz-Institute for pharmaceutical research Saarland (HIPS), Saarbrücken, Germany; ²Bruker Daltonik GmbH, Bremen, Germany
- MP 566 Development of a Caenorhabditis elegans Reference Material for Long-Term LCMS Metabolomics Quality Control and Unknown Compound Identification;

 Goncalo J. Gouveia¹; Brianna M Garcia²; Emerson Ferreira Queiroz³; Franklin E. Leach III⁴; David L. Blum¹; Jean-Luc Wolfender³; Lauren M. McIntyre⁵; I. Jonathan Amster²; Arthur S. Edison¹; ¹Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA; ²Department of Chemistry, University of Georgia, Athens, GA; 3School of Pharmaceutical Sciences, University of Geneva, Geneve, Switzerland; ⁴Department of Environmental Health Science, University of Georgia, Athens, GA; 5Department of Molecular Genetics and Microbiology, University of Florida, Gainsville, FL
- MP 567 Novel Psychoactive Substances Detection Using a Novel Multi-Aspect Workflow Solutions; Melissa Montoya¹; Tim Stratton¹; ¹Thermo Fisher Scientific, Austin, Texas
- MP 568 Electrochemical Simulation of Phase I Metabolism of Three Novel Cardiovascular Drugs Using UHPLC-MS/MS; Martin Eysberg¹; Małgorzata Szultka-Młyńska²; Jean-Pierre Chervet³; ¹Antec Scientific, Boston, MA 02108; ¹Department of Environmental Chemistry and Bioanalytics, Nicolaus Copernicus University, Torun, Poland; ³Antec Scientific, Zoeterwoude, Netherlands
- MP 569 Enabling Rapid and High-Confidence Metabolite Identification Using HILIC-QTOF Based MS/MS-RT Iibrary; Shuang Zhao¹; Wan Chan¹; Ulrike Schweiger-Hufnagel²; Aiko Barsch²; Liang Li¹; ¹University of Alberta, Edmonton, AB; ²Bruker Daltonik GmbH, Bremen, Germany



- MP 570 A Complete Workflow for Improved Untargeted Metabolome Annotation and Identification Using Ultra High-Resolution Accurate Mass and LC-MSn Orbitrap-Based Mass Spectrometry; David A. Peake¹; Reiko Kiyonami¹; Ioanna Ntai¹; Amanda Souza¹; Ralf Tautenhahn¹;

 1 Thermo Fisher Scientific, San Jose, CA
- MP 571 Mass Spectrometry for Identification of Metabolites Secreted by Methamphetamine Treated Human Primary Macrophages; Katarzyna Lech^{1, 2}; Katarzyna Pawlak^{1, 2}; Akou Vei¹; Emma Harwood¹; Spencer Marshall Jaquet¹; Brenda Morsey¹; Howard S. Fox¹; Pawel Ciborowski¹; ¹University of Nebraska Medical Center, Omaha, NE; ²Faculty of Chemistry, Warsaw University of Technology, Warsaw, Poland
- MP 572 A Method of Calculating Retention Index of the Second Dimension Separation in Comprehensive Two-Dimensional Gas Chromatography Mass Spectrometry;

 Md Aminul Islam Prodhan¹; Ahmed A Sleman¹; Xinmin Yin¹;

 Pawel Lorkiewicz¹; Seongho Kim²; Craig McClain¹; Xiang
 Zhang¹; ¹University of Louisville, Louisville, KY; ²Wayne
 State University, Detroit, MI
- MP 573 Off-line fractionation of Complex Samples to Improve Depth-of-Coverage and Aid Compound Identification in Metabolomics; Charles R Evans¹; Brady G Anderson¹; Maureen T Kachman¹; ¹University of Michigan, Ann Arbor, MI
- MP 574 Comparison of Different Compound Spectral Libraries with DDA and DIA Analyzed Extracted Plasma for Metabolite Identification; Robert Proos¹; Khatereh Motamedchaboki²; Anthony Romanelli¹; ¹Sciex, Framingham, MA; ²Sciex, Redwood City, CA
- MP 575 IROA Approach Enabling Detection of Metabolites
 Whose Production is Initiated or Ceased in Response to
 Treatment; Amy L. Lane¹; Felice de Jong²; Chris Beecher²;

 ¹University of North Florida, Jacksonville, FL; ²IROA
 Technologies LLC, Bolton, MA
- MP 576 CHO Cell Culture Media Profiling and Unknown Identification by Liquid Chromatography and Accurate Mass High Resolution Mass Spectrometry; Richard Rogers¹; Xuejun Peng²; Guillaume Tremintin²; ¹Just Biotherapeutics, Seattle, WA; ²Bruker Daltonics, San Jose, CA

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- MP 577 Applications of a Novel Hydrolysis System for Deconvolution of Cyclotides on a Bead and Super Rapid Amino Acid Analyses; Kiyoshi Nokihara¹; Yuki Tominaga¹; Takeshi Kasama¹; Haruyuki Fujino¹; Atsushi Kitagawa¹; ¹HiPep Laboratories, Kyoto, Japan
- MP 578 Electron Transfer Dissociation of Highly Acidic peptides Following Enhanced Protonation Using Chromium(III) with Electrospray Ionization; Surakshya Thapa¹; Carolyn J. Cassady¹; ¹University of Alabama, Tuscaloosa, AL
- MP 579 Proteogenomics-Assisted Identification of Novel Variants Peptides after p53 Loss in Wild-Type p53 Harboring Human Melanoma Cell Lines; Satya Saxena^{1, 2}; Mohd M Khan³; Jakub Faktor⁴; Nathan P Manes⁵; Sachin Kote²; Georges Bedran²; Javier Alfaro²; Aleksandra Nita-lazar⁵; Borek Vojtesek⁴; Theodore Hupp², ⁶; David R. Goodlett², ³; ¹Deurion LLC, Seattle, WA; ²International Centre for Cancer Vaccine Science, University of Gdansk, Gdansk, Poland; ³University of Maryland, Baltimore, MD; ⁴RECAMO, Brno, Czech Republic; ⁵NIH/NIAID, Bethesda, MD; ⁵University of Edinburgh, Edinburgh, United Kingdom
- MP 580 Analysis Platform for accurate amino acid sequencing combining with a benchtop MALDI-TOF MS and N-/C-terminal sequencing; Nanami Sakashita¹; Tomoko Kuriki¹; Brian J. Field²; Yuzo Yamazaki¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Scientific Instruments, Inc., Columbia, MD

- MP 581 Advances in Structural Elucidation Techniques for the Characterization of Cystine-Knot Peptides; Sarah J Robinson^{1, 2}; Christopher M Crittenden¹; ¹Small Molecule Pharmaceutical Sciences, Genentech Inc., South San Francisco, CA; ²Discovery Chemistry, Genentech Inc., South San Francisco, CA
- MP 582 Characterization of Five Commonly Used Chymotrypsins; Yunyun Zhu¹; Alexander S. Herbert². ³. ⁴; Joshua J Coon². ³. ⁴. ⁵; ¹University of Wisconsin-Madison, Madison, WI; ²Genome Center of Wisconsin, Madison, WI; ³Department of Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI; ⁴Department of Biochemistry, University of Wisconsin, Madison, WI; ⁵Department of Chemistry, University of Wisconsin, Madison WI
- MP 583 Structural Characterization of Cyclic Peptides Using a Quadrupole Time-of-Flight Mass Spectrometer; Toshiya Matsubara¹; Yusuke Inohana¹; Ichiro Hirano¹; ¹Shimadzu Corporation, Kyoto, Japan
- MP 584 Investigating the Cleavage Capability of the Proteases
 LysN, LysArginase and Chymotrypsin in Complex,
 Biotinylated Samples; Peter Schein¹; Volkmar
 Gieselmann¹; Marc Sylvester¹; ¹Institute of Biochemistry and
 Molecular Biology, Rheinische Friedrich-Wilhelms University
 of Bonn, Bonn, Germany

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- MP 585 Multiplex Dimethylated Leucine (DiLeu) Isobaric Tags to Probe Neuropeptidomic Response to Copper Toxicity in the Blue Crab, Callinectes sapidus; Chris Sauer¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- MP 586 Single Amino Acid Variant Discovery in 9 Panc-1 Cells;

 Zhijing Tan¹; Xinpei Yi²; Nicholas J. Carruthers³; Paul M.

 Stemmer³; David M. Lubman⁴; ¹University of Michiagan,

 Ann Arbor, MI; ²University of Chinese Academy of Sciences,

 Beijing, China; ³Wayne State University, Detroit, Michigan;

 ¹University of Michigan, Ann Arbor, MI
- MP 587 Capillary Zone Electrophoresis-Tandem Mass Spectrometry for Large-Scale Phosphoproteomics with over 11,000 Phosphopeptides IDs from the Colon Carcinoma HCT116 Cell Line; Daoyang Chen¹; Katelyn R. Ludwig²; Oleg V. Krokhin³; Vic Spicer³; Zhichang Yang¹; Xiaojing Shen¹; Amanda B. Hummon⁴; Liangliang Sun¹; ¹Department of Chemistry, Michigan State University, East Lansing, MI; ²Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN; ³Manitoba Centre for Proteomics and Systems Biology, University of Manitoba, Winnipeg, Manitoba; ¹Department of Chemistry and Biochemistry, Comprehensive Cancer Center, The Ohio State University, Columbus, OH
- MP 588 Single Cell MALDI MS Neuropeptidomics of the Aplysia Californica; Peter Andersen¹; Thanh Do²; Stanislav S Rubakhin¹; Jonathan V. Sweedler¹; ¹University of Illinois at Urbana Champaign, Urbana, IL; ²University of Tennessee, Knoxville, TN
- MP 589 Increasing the Analysis Depth of the HLA-Associated Peptide Repertoire by LC-MS/MS; Chris D McGann¹; Scott P Goulding¹; Lia R Serrano¹; Michael R Nelson¹; Aman Makaju²; Jennifer G Abelin¹; Terri A Addona¹; ¹Neon Therapeutics, Cambridge, MA; ²Thermo Fisher Scientific, San Jose, CA
- MP 590 Detection of Ultra-Low Abundance Epitopes by Parallel Reaction Monitoring (PRM); Jonas Förster^{1,2}; Nitya Mohan^{1,2}; Rebecca Köhler^{1,3}; Mogjib Salek^{1,3}; Angelika B. Riemer^{1,3}; ¹German Cancer Research Center (DKFZ), Heidelberg, Germany; ²Faculty of Biosciences, Heidelberg University, Heidelberg, Germany, Heidelberg, Germany; ³Molecular Vaccine Design, German Center for Infection



- A Mass Spectrometry Based Platform for Differential MP 591 **Diagnostics of Hypertensive Pregnancy Complications** via Urine Peptidome Profiling; Alexey Kononikhin^{1, 2,} 3; Victoria Sergeeva^{3, 4}; Natalia Starodubtseva^{1, 2}; Maria Indeykina^{2, 4}; Anna Bugrova^{1, 4}; Natalia V. Zakharova⁴; Vitaly Chagovets¹; Igor Popov^{1, 2}; Vladimir Frankevich¹; Eugene (evgeny) Nikolaev⁵; ¹V. I. Kulakov National Medical Research Center for Obstetrics, Gynecology and Perinatology, Ministry of Healthcare of the Russian Federation, Moscow, Russia; 2Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; ³V.L. Talrose Institute for Energy Problems of Chemical Physics, Russian Academy of Sciences, Moscow, Russia; ⁴Emanuel Institute for Biochemical Physics, Russian Academy of Sciences, Moscow, Russia; 5Skolkovo institute of science and technology, Moscow Region, Russian Federation
- MP 592 Enhanced Detection of Short and Hydrophilic Peptides Fraction Using Porous Graphitic Carbon; Susy Piovesana¹; Carmela Maria Carmela Maria Montone²; Chiara Cavaliere²; Giorgia La Barbera²; Aldo Laganà²; Anna Laura Capriotti²; Carlo Crescenzi³; ¹Department of Chemistry, Università di Roma "La Sapienza", Rome, Italy; ²Department of Chemistry, Università di Roma "La Sapienza", Rome, Italy; ³Salerno University, Fisciano (SA), Italy
- MP 593 Intraspecific Comparison of the Venom Peptidome of Conus purpurascens; Meghan K. Grandal^{1, 2}; Mickelene F. Hoggard¹; Frank Mari¹; ¹National Institute of Standards and Technology, Charleston, SC; ²Medical University of South Carolina, Charleston, SC
- MP 594 Optimized Mild Acid Elution and Sample Clean-Up of MHC Immunopeptides with Trapped Ion Mobility Spectrometry(tims)-TOF; Teesha C Luehr¹; Queenie Chan¹; Leonard J Foster¹; ¹University of British Columbia, Vancouver, BC
- MP 595 Quantitative Analysis of the Isoforms of the Master Iron Regulator Hepcidin in a Clinically Actionable Time Frame; Robert Trengove 1, 2; Garth Maker^{3, 4}; ¹Murdoch University, Murdoch, Australia; ²Australian National Phenome Centre, Murdoch University, Perth, Australia; ³Murdoch University, Perth, Australia; ⁴Medical, Molecular and Forensic Sciences, Murdoch University, Murdoch, Australia
- MP 596 Mass Spectrometry Based Immunopeptidomics Accelerating the Development of Personalized Cancer Immunotherapy; Michal Bassani-sternberg^{1, 2}; Markus Müller³; Florian Huber¹, ²; Brian Stevenson³; Julien Racle⁴; Justine Michaux¹, ²; Chloe Chong¹, ²; David Gfeller⁴, ⁵; George Coukos¹, ²; ¹Department of Oncology, University Hospital of Lausanne, Lausanne, Switzerland; ²Ludwig Institute for Cancer Research, Lausanne, Switzerland; ³Vital IT, Swiss Institute of Bioinformatics, Lausanne, Switzerland; ⁴Department of Oncology, University of Lausanne, Lausanne, Switzerland; ⁵Swiss Institute of Bioinformatics, Lausanne, Switzerland
- MP 597 Characterization of Human Pancreatic Islet Peptidome Using Parallel Accumulation-Serial Fragmentation (PASEF) and Trapped Ion Mobility Spectrometry; Elena V. Romanova¹; Stanislav S Rubakhin¹; David H. Mast¹; Jonathan V. Sweedler¹; ¹University of Illinois at Urbana-Champaign, Urbana, IL
- MP 598 Enrichment of Zinc Finger Proteins by IMAC; Stephanie
 Miller Lehman¹; Josue Baeza¹; Geoffrey P. Dann¹; Benjamin
 A Garcia¹; ¹University of Pennsylvania. Philadelphia. PA

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- MP 599 A Novel Automated and Highly Selective Phosphopeptide Enrichment Strategy for Successful Phosphopeptide Identification and Phosphosite Localization; Shuai Wu¹; Kenneth Newton¹; Linfeng Wu¹; Jordy J. Hsiao¹; Valery G. Voinov², ³; Joseph S. Beckman², ³; ¹Agilent Technologies, Santa Clara, CA; ²e-Msion Inc., Corvallis, OR; ³Oregon State University, Corvallis, OR
- MP 600 A Scalable Phosphopeptide Enrichment Strategy for Multiplexed Quantitative Phosphoproteomics; Alison Erickson¹; Brian Erickson¹; Craig Braun¹; Ryan Kunz¹; ¹/Q Proteomics LLC, Cambridge, MA
- MP 601 Large Scale EasyPepTM MS Sample Preparation for Phosphopeptide Enrichment Workflows; Amarjeet Flora¹; Ryan D. Bomgarden¹; Sergei Snovida¹; Ashok Salunkhe¹; John C. Rogers¹; ¹Thermo Fisher Scientific, Rockford, IL
- MP 602 **Development of Fully Automated and High-Throughput Workflow for Phosphoproteomics**; <u>Stoyan Stoychev</u>^{1, 2};
 Ireshyn Govender¹; Previn Naciker¹; Sindisiwe Buthelezi¹;
 Sipho Mamputha¹; Isak Gerber^{1, 2}; Justin Jordaan²; ¹CSIR,
 Pretoria, South Africa; ²ReSyn BioSciences, Pretoria, South
 Africa
- MP 603 Using Quantitative Phosphoproteomics to Understand Key Phosphorylation Signaling Pathways in HCT116 Cells after Chemotherapy Drug Treatment; Brian T Mullis¹; Lim Andrew Lee²; Rebekah J Woolsey³; David R Quilici³; Qian Wang¹; ¹University of South Carolina, Columbia, SC; ²Integrated Micro-Chromatography Systems, Irmo, SC; ³Mitch Hitchcock, Ph.D. Nevada Proteomics Center, Reno, NV

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- MP 604 Discovering Putative Mode of Action of Plant Protection Genes Using Metabolomics; Jan Hazebroek¹; Teresa Harp¹; Chris Vlahakis¹; Leandro Perugini¹; Girma Tabor¹; ¹Corteva Agriscience, Johnston, IA
- MP 605 Drought Metabolomics of Susceptible and Tolerant Soybean Cultivars; Kevin J. Zemaitis¹; Philip Lindhorst¹; Troy D. Wood¹; ¹University at Buffalo, Buffalo, NY
- MP 606 Application of Data-Independent Acquisition Approach to Study the Proteome Dynamics of Plant Pathogenesis Responses; Kai-ting Fan¹; Kuo-Hsin Wang¹; Wei-Hung Chang¹; Jhih-Ci Yang Yang¹,²; Ching-Fang Yeh¹; Kai-Tan Cheng¹; Sheng-Chi Hung¹,³; Yet-Ran Chen¹; ¹Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan; ²National Chiao Tung University, Hsinchu, Taiwan; ³Institute of Biotechnology, National Taiwan University, Taipei, Taiwan
- MP 607 Using SWATH-MS to Understand Global Proteome Changes in Barley Lines with Reduced Storage Protein Synthesis; Utpal Bose¹; Keren Byrne¹; Malcolm J. Blundell²; Crispin A. Howitt²; Michelle L. Colgrave¹;

 'Agriculture and Food, CSIRO, St Lucia, Australia;
 'Agriculture and Food, CSIRO, Canberra, Australia
- MP 608 Dynamic Proteome Response of Different Rice Varieties to Drought Stress; Sara Hamzelou¹; Dana Pascovici¹; Mehdi Mirzaei¹; Ardeshir Amirkhani¹; Matthew J. McKay¹; Brian J. Atwell¹; Paul A. Haynes¹; Macquarie University, North Ryde, Australia
- MP 609 Simple and High-Throughput Method for Plant
 Metabolites by PESI/MS/MS: First Application to Plant
 Metabolite Analysis and Agricultural Industry; Ryota
 Harada¹; Moeko Taki¹; Yumi Hayashi².³; Kei Zaitsu²;
 Katsuhiro Shiratake¹; ¹Laboratory of Horticultural Science,
 Graduate School of Bioagricultural Sciences, Nagoya
 University, Nagoya, Japan; ²In Vivo Real-Time Omics
 Laboratory, Institute for Advanced Research, Nagoya



- University, Nagoya, Japan; ³Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan
- MP 610 Dissection of Flag Leaf Metabolic Shifts and Relationship with Those Occurring Simultaneously in Developing Seed by Application of Non-Targeted Metabolomics; Chaoyang Hu¹; Jianxin Shi²; Yue Song³; Shan-an Chan⁴; ¹Ningbo University, Ningbo, China; ²Shanghai Jiao Tong University, Shanghai, China; ³Agilent Technologies, Shanghai, China; ⁴Agilent Technologies, Taipei. Taiwan
- MP 611 Metabolic Disturbance in the Beet Necrotic Yellow Vein Virus/Sugar Beet Pathosystem; Fabio C. Chaves¹; Kimberly M. Webb²; William M. Wintermantel³; Lisa M Wolfe¹; Linxing Yao¹; Corey D. Broeckling¹; ¹Proteomics and Metabolomics Facility of Colorado State University, Fort Collins, CO; ²USDA-ARS, Soil Management and Sugar Beet Research Unit, Fort Collins, CO; ³USDA-ARS, Crop Improvement and Protection Research Unit, Salinas, CA
- MP 612 Phosphoproteomics Reveals the Downstream Phosphorylation Signaling Targets of the Lectin Receptor-Like Kinase PtLecRLK1 Involved in Plant I Mycorrhizal symbiosis; Him K Shrestha¹; Paul Abraham²; Jin-Gui Chen²; Robert L. Hettich²; ¹University of Tennessee, Knoxville, TN; ²Oak Ridge National Laboratory, Oak Ridge, TN
- MP 613 A Quantitative Strategy for Deep Coverage of the Algal Phosphoproteome; Megan M. Ford¹; Emily G. Werth¹; Leslie M. Hicks¹; ¹University of North Carolina, Chapel Hill, NC
- MP 614 Characterization and Identification of Di-Isodityrosine and Pulcherosine Cross-linkages Occurring in the Plant Cell Wall Extensin Scaffold; Lawrie Gainey; Steven D. Hartson¹; Michelle English²; Marshall Bern²; Andrew J. Mort¹; ¹Oklahoma State University, Stillwater, OK; ²Protein Metrics Inc., San Carlos, CA
- MP 615

 Enhancement of Nodule-Specific Cysteine-Rich Peptide Detection in Medicago truncatula by MALDI-MSI through Inclusion of a Simple Wash; Caitlin Keller¹; Nhu Q. Vu¹; Bailey Kleven¹; Sanhita Chakraborty¹; Junko Maeda¹; Dhileepkumar Jayaraman¹; Michael R. Sussman¹; Jean-Michel Ané¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- MP 616 Elucidating Protein-Protein Interactions in Chlamydomonas reinhardtii Using Immunoprecipitation and Liquid Chromatography-Mass Spectrometry;

 Anthony A lannetta¹; Leslie M Hicks¹; ¹University of North Carolina, Chapel Hill, NC
- MP 617 Development and Characterization of IR-MALDESI Specifically for Mass Spectrometry Imaging of Plants; Michael C Bagley¹; Rika S Judd¹; Anna N Stepanova¹; Yogini S Jaiswal²; Måns Ekelöf¹; Kenneth P Garrard¹; Leonard L Williams²; Jose M Alonso¹; De-Yu Xie¹; David C Muddiman¹.³; ¹North Carolina State University, Raleigh, NC; ²Center for Excellence in Post Harvest Technologies, North Carolina Agricultural and Technical State University, The North Carolina Research Campus, Kannapolis, North Carolina; ³Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
- MP 618 Proteoform Profiling of Canadian Breadwheat Glutenins Reveals Unexpected C-Terminal Tyrosine Truncation in Low Molecular Weight Glutenins; Ray Bacala^{1, 2}; Katherine Cordova¹; Helene Perreault²; Dave Hatcher¹;

 ¹Canadian Grain Commission, Winnipeg, MB; ²Department of Chemistry, University of Manitoba, Winnipeg, MB
- MP 619 The Metabolome of Early Season Sorghum Plant Tissue is Predictive of End of Season Biomass; Amy M Sheflin¹; Stephen Kresovich²; Ismail Dweikat³; Ellen Marsh³; Daniel

- Schachtman³; <u>Jessica Prenni</u>¹; ¹Colorado State University, Fort Collins, CO; ²Clemson University, Clemson, SC; ³University of Nebraska Lincoln, Lincoln, NE
- MP 620 Proteomic Analysis of Translational Control of Gene Expression under Light Treatment in Arabidopsis thaliana; Yixiang Zhang^{1, 2}; Xuhong Yu³; Scott D. Michaels³; Jonathan C. Trinidad^{1, 2}; ¹Department of Chemistry, Indiana University, Bloomington, IN; ²Laboratory for Biological Mass Spectrometry, Indiana University, Bloomington, IN; ³Department of Biology, Indiana University, Bloomington, IN
- MP 621 Regulation at the Plant-Microbe Interface: Discovery and Characterization of Signaling Polypeptides Using High-Performance Tandem Mass Spectrometry; Paul E. Abraham¹; Suresh Poudel¹; Anna Matthiadis¹; Udaya Kalluri¹; Robert L. Hettich¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- MP 622 Profiling of Histone Acetylation and Methylation Marks
 Associated with Embryo and Aleurone Tissue-Specific
 Epigenetic Regulation of Seed Dormancy in Wheat;
 Michelle Rampitsch¹; Mei Huang¹; Yao Zhen¹; Nataša
 Radovanovic¹; Wayne Xu¹; Christof Rampitsch¹; Natalia
 V. Bykova¹; ¹Agriculture and Agri-Food Canada, Morden,
 Manitoba
- MP 623 Metabolome-Based Genome Wide Association Profiling of Innate Immunity in Rice; Joshua Blakeslee¹; Pengfei Bai²; Yun Li¹; Matthew Bernier²; Guo-Liang Wang²; ¹The Ohio State University, Wooster, OH; ²The Ohio State University, Columbus, OH
- MP 624 **Molecular and Microbial Responses to Drought** in Field-Grown Sorghum; Kim K. Hixson1; Kristin M. Engbrecht¹; Daniel J. Orton¹; Kent J. Bloodsworth¹; Aivett Bilbao¹; Joon-Yong Lee¹; Young-Mo Kim¹; Jamie R. Nunez¹; Bryan A. Stanfill¹; Erika M. Zink¹; Karl K. Weitz¹; Ling Xu², ³; Pubudu P. Handakumbura¹; Mary A. Madera²; Julie A. Sievert4; Joy Hollingsworth4; Ronald J. Moore1; Ryan S. Renslow¹; Thomas O. Metz¹; Ljiljana Pasa-Tolic¹; Robert Hutmacher⁵; Jeffery A. Dahlberg⁴; Devin Coleman-Derr^{2, 3}; Peggy G. Lemaux²; Christer Jansson¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²University of California, Berkeley, Berkeley, CA; 3US Department of Agriculture-Agricultural Research Service, Albany, CA; 4Kearney Agricultural Research & Extension Center, Parlier, CA; ⁵Westside Research & Extension Center, University of California, Davis, Five Points, CA
- MP 625 Utilization of Substructure Identification through MSn Analysis for Unknown Structure Determination Assisted with in silico Fragmentation Prediction; <u>Tim Stratton</u>; Thermo Fisher Scientific, San Jose, CA
- MP 626 Spatial Distribution Mapping of Molecules in the Grains of Different Rice Landraces, Using Desorption Electrospray Ionization Mass Spectrometry; Arunan Suganya¹; Debal Deb²; Thalappil Pradeep¹; ¹Indian Institute of Technology Madras, Chennai, India; ²Centre for Interdisciplinary Studies, Barrackpore, Kolkata 700 123, India

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- MP 627 Gaseous Polylactide lons Retain Structural Memory of How They Were Produced by ESI: An Ion Mobility Spectrometry/Molecular Dynamics Simulation Study; Quentin Duez^{1, 2}; Haidy Metwally²; Sébastien Hoyas¹; Vincent Lemaur¹; Jérôme Cornil¹; Pascal Gerbaux¹; Lars Konermann²; Julien De Winter¹; ¹University of Mons, Mons, Belgium; ²University of Western Ontario, London, ON
- MP 628 Analysis of an Ethoxylated Capyrlic/Capric Polyglyceride Surfactant Mixture via Liquid Chromatography Coupled to Ion Mobility Mass Spectrometry; Jason Michael O'neill¹; Chrys Wesdemiotis¹; ¹The University of Akron Chemistry Department, Akron, OH



MP 630 Molecular Coding/Decoding of Oligomer Sequences via Advanced Polymer Chromatography – Ion Mobility Separation - Mass Spectrometry Hyphenation; Marie-Theres Picker¹; Chiel Mertens²; Filip Du Prez²; Dirk Kuckling¹; 'Paderborn University, Paderborn, Germany;

2Ghent University, Ghent, Belgium

MP 631 Characterization of MQ Silicone Resins by GPC-MALDI-MS; Tianlan Zhang¹; Wei Gao¹; Donald Eldred²; Tom Bekemeier²; ¹The Dow Chemical Co, Collegeville, PA; ²Dow Chemical Company, Auburn, MI

MP 632 Molecular Characterization of Oligomeric Pyrolysis
Compounds of Ethyl Acrylate-Butyl Acrylate Copolymer
Using Thermal Desorption/Pyrolysis DART-MS; Chikako
Takei¹; Kenichi Yoshizawa¹; Sayaka Nakamura²; Hiroaki
Sato²; Hajime Ohtani³; ¹BioChromato, Inc., Fujisawa,
Japan; ²National Institute of Advanced Industrial Science
and Technology, Tsukuba, Japan; ³Nagoya Institute of
Technology, Nagoya, Japan

MP 633 Structural Elucidation of Multiply Charged Gaseous Organosilicon Cations via Solution Phase Additives; Tanya Habitz¹; Ron Tecklenburg¹; John Stutzman¹; ¹The Dow Chemical Company, Midland, MI

MP 634 Optimizing the Performance of Organic Memory
Devices – A Complementary Multi-Technique Analytical
Approach; Lothar Veith¹; Minye Jin¹; Hans Joachim Räder¹;
Jasper Michels¹; Rüdiger Berger¹; Paul Blom¹; Tanja
Weil¹; ¹Max Planck Institute for Polymer Research, Mainz,
Germany

MP 635 A Study on Matrix Preparation towards MALDI-Imaging of Synthetic Polymer Samples; Toshiji Kudo¹; Takashi Nirasawa²; Shigeru Sakamoto¹; ¹Bruker Japan K.K., Yokohama, Japan; ²Bruker Japan K.K., Yokohama, Japan

MP 636 A High Performance Liquid Chromatography/Mass Spectrometry (LC/MS) Method for the Characterization of Stressed Polysorbate 20 and 80; Paul W. Brown¹; Yan He¹; Olga Friese²; Jason Rouse³; ¹Pfizer, Wildwood, MO; ²Pfizr, Wildwood, MO; ³Pfizer, Andover, MA

MP 637 Chemical Depolymerization and Analysis of Synthetic and Natural Insoluble Polymers by 1D and 2D High Resolution FT-ICR Mass Spectrometry; Ziad Mahmoud¹; Sergui Mansour¹; Fabrice Bray¹; Laëtitia Chausset-Boissarie¹; Christian Rolando²; ¹Université de Lille, Villeneuve d'Ascq, France; ²Univ. de Lille, Sciences et Technologies, Villeneuve D'ascq, France

MP 638 Determination of the Detailed Electron Impact Fragmentation Pathways for Mercaptopropyl and Chloropropyl Containing Silane Coupling Agents and Siloxane Polymers; Ron Tecklenburg¹; Tanya Habitz¹; ¹The Dow Chemical Company, Midland, MI

MP 639 ケンド(リック): "Kendo" Open File for the Advanced Kendrick Mass Defect Analysis of Mass Spectra From Polymeric Materials; Thierry Nicolas Jean Fouquet¹; Sayaka Nakamura¹; Robert Cody²; Hiroaki Sato¹; ¹National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan; ²JEOL USA, Inc., Peabody, MA

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MP 640 Effect of Amino Acid Supplementation on Host Cell Protein Profile for Recombinant Pramlintide concatemer Production in E. coli; Rohan Shah¹; Saurabh Nagpal²; Anurag Rathore¹; Jashwant Kumar¹; ¹Indian Institute of Technology, delhi, India; ²Agilent Technologies, Gurgaon, India

MP 641 Compiling a Method Toolbox to Improve Detection of Host Cell Proteins; Martha Stapels¹; Helena Awad¹; Michelle Busch¹; Joanne Cotton¹; Fateme Tousi¹; ¹Sanofi, Framingham, MA

MP 642 Monitoring of Non-Human Glycan Motif in Biotherapeutics for Immunogenicity Prediction;

<u>Unyong Kim</u>¹; Myung Jin Oh^{2,3}; Nari Seo^{2,3}; Hyun Joo An^{2,3}; 'fGLYCAN Co., Ltd., Seongnam, South Korea; ²Asia-Pacific Glycomics Reference Site, Daejeon, South Korea; ³Chungnam National University, Daejeon, South Korea

MP 643 Quantitative Analysis of Intact Monoclonal Antibodies from Mouse Serum Using LC/MS and CE/MS
Techniques; David Wong¹; Omar S. Barnaby²; Mei Han³; Yanan Yang¹; Christopher A. James⁴; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Amgen, Inc., Thousand Oaks, CA; ³Amgen Inc., South San Francisco, CA; ⁴Amgen, Inc., Thousand Oaks, CA

MP 644 Spatially-Resolved, 3D-Printed Micro-Sampling Coupled to Sensitive Nano-LC-MS to Quantify the Absolute Levels of Heterogeneous Distribution of mAb/Targets in Tissues; Ming Zhang¹; Bo An¹; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY

MP 645 Characterization of Commercial Vaccines by Charge Detection Mass Spectrometry; Kevin Bond¹; Che-Yen (Joe) Wang²; Martin F Jarrold¹; ¹Indiana University Bloomington, Bloomington, IN; ²Indiana University, Bloomington, IN

MP 646 High-Resolution Isolation LC/SRM-MS Enabled Improved Selectivity via the Isolated Isotopic Precursor/Product Transitions; Shihan Huo¹; Jie Pu¹; Ming Zhang¹.²; Xiaoyu Zhu¹; Jun Qu¹.²; ¹University at Buffalo, Buffalo, NY; ²New York State Center of Excellence in Bioinformatics & Life Sciences, Buffalo, NY

MP 647 A Peptide Mapping Based Quality-by-Design Study of Biopharmaceuticals Oxidation during Formulation Development; Bo Zhai¹; Danika Rodrigues²; Dwaine Banton³; Andrew D Mahan¹; Stuart Ember²; Jeffrey Brelsford¹; Santosh Thakkar²; Hirsh Nanda¹; ¹Janssen Research & Development, Cell & Developability Sciences, Spring House, PA; ²Janssen Research & Development, Large Molecule Drug Product Development, Malvern, PA; ³Janssen Research & Development, Manufacturing and Applied Statistics, Spring House, PA

MP 648 A Generic Anti-Peptide Capture Coupled to LC/MS MRM for Low Level Pharmacokinetic Measurements of Therapeutic Proteins; Bao-Jen Shyong¹; Weixun Wang²; Huaibing He²; Bernard Choi²; Lucinda Hittle²; Kevin Bateman¹; Daniel Spellman¹; ¹Merck & Co., Inc., West Point. PA: ²Merck & Co., Inc., Rahway, NJ

MP 649 Comparison of Methods for Plate-Based Capture and Quantification of Monoclonal Antibodies by LC-MS;

Nicolas Caffarellii¹; Yue Lu¹; Pegah Jalili¹; Thomas Juehne¹;

Jeffrey Turner¹; Kevin Ray¹; ¹MilliporeSigma, St. Louis, MO

MP 650 Engineering the XS® Pichia Expression System to Reduce Host Cell Protein Impurities in Biopharmaceuticals Production; Sylwia Jozwiak¹; Katrien Claes²; Christoph Kiziak²; James Graham¹; ¹Research and Development, Pharma&Biotech, Lonza Biologics plc, Slough, United Kingdom; ²Research and Development Microbial, Pharma&Biotech, Lonza AG, Visp, Switzerland



- MP 651 A High-Resolution Multi-Attribute Method for Product Characterization, Process Characterization, and Quality Control of Therapeutic Proteins; Xiaoyan Guan¹; Le Zhang¹; Da Ren¹; Tamer Eris¹; ¹Amgen, Thousand Oaks, CA
- MP 652 The Development of a Point-of-Need Miniaturized ESI-MS for Upstream Bioprocessing Applications; Richard W Moseley¹; Alex I McIntosh¹; ¹Microsaic Systems, Woking, United Kingdom
- MP 653 Evaluation of nSMOL Methodology for the Analysis of the mAb Bevacizumab in Human Plasma by LC-MS/MS; Mike Buonarati¹; Stephen Kurzyniec²; Vikki Johnson²; Reed Lyon¹; Laurence M. Brill¹; Dale Schoener¹; ¹Intertek Pharmaceutical Services, San Diego, CA; ²Shimadzu Scientific Instruments, Inc, Carlsbad, CA
- MP 654 Comprehensive and Streamlined Approach for Host Cell Protein Identification and Quantification; Sean McCarthy¹; Zoe Zhang²; Lei Xiong²; Elliott Jones²; ¹SCIEX, Framingham, MA; ²Sciex, Redwood City, CA
- MP 655 Tandem Quadrupole MS for the Quantification of Monoclonal Antibody Subunit Light Chains in Plasma;

 Caitlin M Dunning¹; Mary E Lame¹; Yun W Alelyunas¹; Mark D Wrona¹; **Waters Corporation, Milford, MA*
- MP 656 Comparison of Sample Preparation Methods for Hybrid Ligand Binding Assay-Liquid Chromatography Tandem Mass Spectrometry; Maria-Christina S Malinao¹; Chad Eichman¹; Brian Rivera¹; ¹Phenomenex, Torrance, CA
- MP 657 An Improved Immunoaffinity LC-MS/MS Workflow for the Quantitation of IgG's during Preclinical PK Studies;

 Michael M. Rosenblatt¹; lyndsey Jager¹; Nidhi Nath¹; Marjeta Urh¹; ¹Promega Corporation, Madison, WI
- MP 658 Ultra-sensitive Quantification of Monoclonal antibodies and ADCs in Mouse Plasma using Trap-Elute MicroLC-MS/MS method; Lei Xiong¹; Ji Jiang¹; Remco van Soest¹; ¹Sciex, Redwood City, CA
- MP 659 Efficient Data Processing Workflows for In-Depth, MS-Based Glycoanalysis of Biopharmaceuticals; Aude Tartiere¹; Albert Van Wyk²; Joe Shambaugh³; John McCarter³; Cassandra Wigmore⁴; Peter Haberl⁵; ¹Genedata, Inc., San Francisco, CA; ²Genedata Ltd, Cambridge, United Kingdom; ³Genedata Inc, Lexington, MA, USA, Lexington, MA; ⁴Genedata AG, Basel, Switzerland, Basel, Switzerland; ⁵Genedata GmbH, Munich, Germany, Munich, Germany

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- MP 660 Isotopically Resolved Analysis of Protein Subunits
 Using High Resolution Accurate Mass; Sean McCarthy¹;
 Melanie Juba²; Zoe Zhang³; ¹SCIEX, Framingham, MA;
 ²Sciex, Framingham, MA; ³Sciex, Redwood City, CA
- MP 661 Laser-Free FPOP Hydroxyl Radical Protein Foot-Printing with In-Line Radical Dosimetry for Biopharmaceutical Higher Order Structural Analys; Scot R Weinberger¹; Ron C. Orlando^{1, 2}; Joshua S Sharp^{1, 3}; ¹GenNext Technologies, Inc., Montara, CA; ²University of Georgia, Athens, GA; ³University of Mississippi, University, MS
- MP 662 Mass Spectrometric Characterization of Acidic Species Generated in Cell Culture and Stability Studies of Monoclonal Antibodies; <u>loannis A Papayannopoulos</u>¹; Shannon Renn-Bingham¹; ¹Celldex Therapeutics, Fall River MA
- MP 663 Mapping Glycation Sites of an Antitumor Tn-BSA
 Neoglycoconjugate by Mass Spectrometry; Simin
 Tavangari¹; Rene Roy¹; Alexandra M Furtos²; ¹Universite
 du Quebec a Montreal, Montreal, Québec; ²University of
 Montreal, Montreal, QC

- MP 664 A Single Injection LC-MS Analysis Scheme for Simultaneous Analysis of Biotherapeutics and Host-Cell Impurities via Online Digestion LC-MS/MS; Joshua Emory¹; Brian Feild¹; Harsha P. Gunawardena²; ¹Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ²Janssen Research and Development, Spring House, PA
- MP 665 On-Line Aggregate and Fragment Analysis of Therapeutic Monoclonal Antibodies Using Native Size Exclusion Chromatography Mass Spectrometry;
 Chongfeng Xu¹; Zoran Sosic¹; Sean McCarthy²; Esme
 Candish²; Fan Zhang³; Elliott Jones²; ¹Biogen, Cambridge, MA; ²Sciex, Framingham, MA; ³Sciex, Redwood City, CA
- MP 666 Hydroxyl Radical Protein Footprinting Reveals Buffer Effects in Adalimumab Biosimilar Aggregation and Heat Shock Tolerance; <u>Joshua S. Sharp</u>¹; Sandeep K. Misra¹; Scot R Weinberger²; Ron C. Orlando².³; ¹University of Mississippi, University, MS; ²GenNext Technologies, Inc., Montara, CA; ³University of Georgia, Athens, GA
- MP 667 CESI-MS: A Useful Tool to Analyze the Charge Variants and Disulfide Structural Heterogeneity of IgG2; Prashant Dour¹; Faraz Rashid¹; Dipankar Malakar¹; Manoj Pillai¹;

 SCIEX INDIA, Gurugram, India
- MP 668 Structural Study of a PEGylated Therapeutic Protein by MALDI-ISD and ESI-QTOF; Sergei Dikler¹; Anjali Alving¹;

 ***IBruker Scientific, Billerica, MA**
- MP 669 Automated Chemical Footprinting Enables Monitoring of Conformational Change of Protein Therapeutics; Sonya Entova¹; Nina Chen¹; Mohammed Sahar¹; Alla Polozova¹; Hao Zhang¹; ¹Amgen Inc., Cambridge, MA
- MP 670 Time-resolved Deconvolution for Automated, In-depth Characterization of an IgG-type Monoclonal Antibody by Intact Mass Analysis; Peter Haberl¹; John McCarter²; Aude Tartiere³; Albert Van Wyk⁴; Cassandra Wigmore⁵; Joe Shambaugh²; ¹Genedata GmbH, Munich, Germany; ²Genedata, Inc., Lexington, MA; ³Genedata, Inc., San Francisco, CA; ⁴Genedata Ltd, Cambridge, United Kingdom; ⁵Genedata AG, Basel, Switzerland
- MP 671 Improving Sequence Coverage of Hydrophobic Regions of Bispecific Antibody Cancer Therapeutics with Top-Down Mass Spectrometry and Enzymatic Digestion;

 Jennifer Lippens¹; Burton Lee¹; Andrew Dykstra¹; Tawnya Flick¹; **Iamgen, Inc., Thousand Oaks, CA
- MP 672 A Workflow-Driven Platform Solution for MAM-Based Critical Quality Attribute Monitoring of Biotherapeutics in Process Development and QC; Nillini Ranbaduge¹; Henry Shion¹; Ying Qing Yu¹; Min Du¹; Weibin Chen¹; Waters Corporation, Milford, MA
- MP 673 Characterization and Relative Quantitation of Sequence Variants in Protein Therapeutics by Liquid Chromatography Tandem Mass Spectrometry; Scott Ugrin¹; Colin G. Barry¹; Michelle English²; ¹Alliance Pharma, Malvern, PA; ²Protein Metrics Inc., San Carlos, CA
- MP 674 High-Throughput Analysis of Antibody Charge Heterogeneity by Native Microfluidic Capillary Electrophoresis- Mass Spectrometry; Hongxia (jessica) Wang¹; Haibo Qiu¹; Jikang Wu¹; Thomas Daly¹; Ning Li¹; ¹Regeneron Pharmaceuticals Inc.. Tarrytown, NY
- MP 675 Streamlining mAb Characterization with a PASEF Based Disulfide Analysis Workflow; Stuart Pengelley¹; Waltraud Evers¹; K. Ilker Sen²; Guillaume Tremintin³; Eric Carlson²; Detlev Suckau¹; Anja Resemann¹; Marshall Bern²; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Protein Metrics Inc., Cupertino, CA; ³Bruker Daltonics Inc., Billerica, MA 01821
- MP 676 Improved Middle-Down Characterization of Antibodies
 Using Multiple Ion Activation Techniques and Proton
 Transfer Reaction on a Modified Orbitrap Mass
 Spectrometer; Romain Huguet¹; Kristina Srzentic²; John E.
 P. Syka¹; Christopher Mullen¹; Joshua A Silveira¹; Jennifer
 Sutton¹; Luca Fornelli³; ¹Thermo Fisher Scientific, San Jose,

- CA; ²Thermo Fisher Scientific, Cambridge, MA; ³University of Oklahoma, Health and Science Center, Norman, OK

 MP 677 Optimization of Capillary Nondenaturing Size Exclusion Chromatography of Proteins Coupled to a Multinozzle Electrospray Source; Theresa McLaughlin¹; Yue Ju²; Pan Mao³; Guillaume Tremintin⁴; Allis S. Chien¹; Mel Park⁴; ¹Stanford University, Stanford, CA; ²Bruker Daltonics Inc., Billerica, MA 01821; ³Newomics Inc., Berkeley, CA; ⁴Bruker Daltonics Inc., Billerica, MA
- MP 678 Data Independent Top-down Mass Spectrometry Facilitated by a New MSE Processing Tool; Lindsay J Morrison¹; Barbara J Sulivan¹; ¹Waters Corporation, Beverly, MA

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- MP 679 Composition and Particle Size Characterization of ApoL1 Containing Molecular Assemblies in Human Plasma in Relation to Kidney Filtration Rate; Michael Andrews¹; Andrew N Hoofnagle²; Yulanda Williamson¹; David Schieltz¹; Zsuzsanna Kuklenyik¹; John R Barr¹;

 ¹Centers for Disease Control and Prevention, Chamblee, GA; ²University of Washington, Seattle, WA
- MP 680 The Investigation of High Intensity Interval Training on Left Ventricular Fibrosis in Cardiac Patients by Proteomics; Meng-chu Liu¹; Pang-Hung Hsu¹; Chih-Chin Hsu²; ¹Department of Bioscience and Biotechnology, National Taiwan Ocean University, Keelung City, Taiwan; ¹Department of Physical Medicine and Rehabilitation, Keelung Chang Gung Memorial Hospital, Keelung City, Taiwan
- MP 681 Total Solubilization of FFPE Samples for One Pot High Throughput, High Yield Clinical Proteomics; John P. Wilson¹; Ilyana Ilieva²; Darryl J Pappin¹.³; John B. Wojcik²; ¹ProtiFi, LLC, Farmingdale, NY; ²University of Pennsylvania, Philadelphia, PA; ³Cold Spring Harbor laboratory, Cold Spring Harbor, NY
- MP 682 Identification of Aggressive Prostate Cancers: In-depth Proteomics of Tissues and Urines; Andrew Maclin¹; Amanda Khoo²; Katharina Fritsch²; Ankit Sinha²; Vladimir Ignatchenko¹; Joseph J. Otto³; Lydia Y. Liu²; Vincent Huang⁴; Julie Livingstone⁴; Danny Vesprini⁵; Julius O. Nyalwidhe³; O. John Semmes³; Paul C. Boutros⁶; Stanley Liu⁵; Thomas Kislinger¹; ¹Princess Margaret Cancer Centre, Toronto, ON; ²University of Toronto, Toronto, ON; ³Eastern Virginia Medical School, Norfolk, VA; ⁴Ontario Institute for Cancer Research, Toronto, ON; ⁵Sunnybrook Health Sciences Centre, Toronto, ON; ⁵UCLA, Los Angeles, CA
- MP 683 Identifying Quantitative Protein Changes in the Iris of Glaucoma Patients Using Label Free Proteomics;

 Craig P Dufresne¹; Richard D Semba²; Pingbo Zhang²; Min Zhu²; Jiang Qian³; Tianshun Gao²; Ibrahim AlJadaan⁴; Sami AlShahwan⁴; Ohood Owaidha⁴; Randy Craven²; Deepak Edward².⁴; Alka Mahale⁴; ¹Thermo Fisher Scientific, West Palm Beach, FL; ²Johns Hopkins University, Baltimore, MD; ³National Institute on Aging, National Institutes of Health, Baltimore, MD; ⁴King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia
- MP 684 Protein Signatures for Diagnosis of Ovarian Cancer in a Murine Model; Melissa M Galey¹; Alexandria N Young¹; Valentina Petukhova¹; Jian Wang²; Mingxun Wang²; Joanna E Burdette¹; Laura M Sanchez¹; ¹University of Illinois at Chicago, Chicago, IL; ²Ometa Labs, San Diego, CA
- MP 685 Application of Plasma Proteomics in Alzheimer's Disease; Mostafa J Khan¹; Renã A.S. Robinson¹;
 ¹Vanderbilt University, Nashville, TN
- MP 686 Using iTRAQ-labeling nanoLC-MS/MS Proteomic Approaches to Discovery Urinary Protein Biomarkers of Urothelial Carcinoma; Chao-Jung Chen¹; Chieh Yang²;

- Che-Yi Chou^{1, 3}; Chiu-Ching Huang^{4, 5}; ¹China Medical University, Taichung, Taiwan; ²China Medical University Hospital, Taichung, Taiwan; ³Asia University Hospital, Taichung, Taiwan; ⁴China Medical University Hospital, Taichung, Taiwan; ⁵China Medical University, Taichung City, Taiwan
- MP 687 Proteomics Analysis of Acid Bone Lysate Using Micro Pillar Arrayed Columns; Goran Mitulovic¹; Franz Josef Strauss^{2, 3}; Alexandra Stähli^{2, 4}; Lucian Beer²; Valentina Gilmozzi²; Nina Haspel²; Gerhild Schwab²; Rainhard Gruber²; **Medical University of Vienna, KIMCL, Vienna, Austria; **Medical University of Vienna, Vienna, Austria; **Juniversity of Chile, Santiago, Chile; **University of Bern, Bern, Switzerland**
- MP 688 **Optimized Sample Preparation for the Assessment** of Formalin-Fixed and Paraffin Embedded (FFPE) Tissue Specimen for Mass-Spectrometry Based **Proteogenomics**; Georgia Mitsa¹; Adriana Aguilar²; Mark Basik³; Sonia del Rincon¹; Rene Zahedi¹; Christoph H. Borchers^{1, 3, 4, 5}; ¹Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 2Segal Cancer Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, Montreal, QC; 3Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC; 4University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 5Department of Biochemistry and Microbiology, University of Victoria, Victoria. BC
- MP 689 Proteomic Analysis of Dpy1912-Deficient Human Globozoospermia Reveals Multiple Molecular Defects; Xuejiang Guo¹; Yueshuai Guo¹; Daozhen Chen²; Xiaoyu Yang¹; ¹Nanjing Medical University, Nanjing, China; ²Wuxi Maternal and Child Health Care Hospital Affiliated to Nanjing Medical University, Wuxi, China
- MP 690 Mass Spectrometry-Based Proteomes of Paired Human Cerebrospinal Fluid and Plasma in Relation to the Blood-Brain Barrier; Loïc Dayon¹; Ornella Cominetti¹; Jérôme Wojcik2; Antonio Núñez Galindo1; Aikaterini Oikonomidi³; Hugues Henry⁴; Eugenia Migliavacca¹; Martin Kussmann^{1, 5}; Gene L. Bowman^{1, 6, 7}; Julius Popp^{3,} 8; 1Nestlé Institute of Health Sciences, Nestlé Research, Lausanne, Switzerland; ²Precision for Medicine, Geneva, Switzerland; 3CHUV, Old Age Psychiatry, Department of Psychiatry, Lausanne, Switzerland; 4CHUV, Department of Laboratories, Lausanne, Switzerland; 5Frontiers Media S.A., Lausanne, Switzerland; 6Marcus Institute for Aging Research, Hebrew Senior Life, Boston, MA; ⁷Department of Medicine, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA; 8HUG, Geriatric Psychiatry, Department of Mental Health and Psychiatry, Geneva, Switzerland
- MP 691 Proteomic Characterisation of Chronic Lymphocytic Leukaemia Identifies Putative Subtype-Independent Clinical Targets and Dysregulation of the Spliceosome; Harvey Johnston^{1, 2}; Matthew J Carter²; Marta Larrayoz²; James Clarke²; Spiros D Garbis²; David Oscier²; Jonathan C Strefford²; Andrew J Steele²; Renata Walewska²; Mark S Cragg²; ¹UCL, London, United Kingdom, ²University of Southampton, Southampton, United Kingdom
- MP 692 Proteomic Characterization of Microneedle-Extracted Dermal Interstitial Fluid; Gabrielle Rizzo¹; Bao Q. Tran²; Phillip Miller³; C Nicole Rosenzweig⁴; Ronen Polsky³; Trevor Glaros⁴; Phillip Mach⁵; ¹Excet, Inc., Springfield, VA; ²20th CBRNE Command, APG, MD; ³Sandia National Laboratory, Albuquerque, NM; ⁴ECBC, Aberdeen Proving Ground, MD; ⁵US Army ECBC, Aberdeen Proving Ground, MD



- MP 693 MiCldGUI: A User Friendly Graphical Interface for MiCld a Tool for Microorganism Classification and Identification; Gelio Alves¹; Aleksey Ogurtsov¹; Oleg Obolensky¹; Yi-Kuo Yu¹; ¹National Center for Biotechnology Information, NLM, Bethesda, MD
- MP 694 MHCquant: Automated and Reproducible Data Analysis for Immunopeptidomics; Leon Bichmann¹; Annika Nelde², 3; Michael Ghosh2; Timo Sachsenberg1; Christopher Mohr4; Alexander Peltzer⁴; Leon Kuchenbecker¹; Juliane S. Walz³; Stefan Stevanović^{2, 5}; Hans-Georg Rammensee^{2, 5}; Oliver Kohlbacher^{1, 4, 6, 7}; ¹Applied Bioinformatics, Department of Computer Science, University of Tübingen, Tübingen, Germany; 2Institute for Cell Biology, Department of Immunology, University of Tübingen, Tübingen, Germany; ³Department of Hematology and Oncology, University of Tübingen, Tübingen, Germany; 4Quantitative Biology Center, University of Tübingen, Tübingen, Germany; ⁵German Cancer Consortium (DKTK), DKFZ partner site, Tübingen, Germany; ⁶Biomolecular Interactions, Max Planck Institute for Developmental Biology, Tübingen, Germany; ⁷Institute for Translational Bioinformatics, University Hospital Tübingen, Tübingen, Germany
- MP 695 Evaluation of Instrumental Variability Utilizing 2D LC-MS/MS Proteomic HeLa Standard Data to Enhance
 Quality Control Metrics in Clinical Proteomics; Richard
 M. Searfoss¹; Punit Shah¹; Kennedy Ofori-Mensa¹; Kiki
 Panagopoulos¹; Rangaprasad Sarangarajan¹; Niven R.
 Narain¹; Michael A. Kiebish¹; *BERG, LLC, Framingham, MA
- MP 696 Plasma-Based Protein Panel Can Predict Risk of Acute Graft-Versus-Host Disease and Non-Relapse Mortality in Patients Undergoing Allogeneic Hematopoietic Stemcell Transplantation; Kisoon Dan¹; Junghoon Shin²; Dohyun Han¹; Ji-Won Kim³; Kyungkon Kim⁴; Sang Hoon Song²; Inho Kim²; ¹Proteomics Core Facility, Biomedical Research Institute, Seoul National University Hospital, Seoul, South Korea; ¹Department of Internal Medicine, Seoul National University Hospital, Seoul, South Korea; ¹Department of Internal Medicine, Seoul National University Bundang Hospital, Seongnam, South Korea; ⁴Department of Convergence Medicine, Asan Institute for Life Sciences, Asan Medical Center, Seoul, South Korea
- MP 697 Proteomic Analysis of Liver Tissue Reveals Chronic Low Level Oxidative Stress in a Mouse Model of Primary Hyperoxaluria Type 1; Brianna E Buchalski¹; John Knight¹; Ross Holmes²; James A Mobley³; ¹University of Alabama at Birmingham, Birmingham, Alabama; ²University of Alabama at Birmingham, AL; ³University of Alabama at Birmingham, AL
- MP 698 Profiling of Advanced Glycation End Products (AGE)
 PTM on Antigen Processing Machinery and MHC-II
 Molecules in Diabetes and T2DM Syndrome; Cristina
 C Clement¹; Pia Negroni²; Kateryna Morozova¹; Lawrence
 Stern²; Laura Santambrogio¹; ¹Albert Einstein College of
 Medicine, Bronx, NY; ²University of Massachusetts Medical
 School, Worcester, MA
- MP 699 Parallelizable Quantitative Characterization of Proteome and Targeted Metabolome from Laser Capture Microdissected Tissue Cells; Shichen Shen¹; Jun Li¹; Min Ma²; Sailee Rasam¹; Xiaotao Duan³; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Comprehensive Cancer Center, Buffalo, NY; ³Beijing Institute of Pharmacology and Toxicology, Beijing, China
- MP 700 Kinome Profiling Identifies Drug Resistance Pathways in Hepatocellular Carcinoma; Martin Golkowski¹; Ho-Tak Lau¹; Marina Chan²; Heidi Kenerson³; Venkata Narayana Vidadala⁴; Anna Shoemaker¹; Dustin J Maly⁴; Raymond S Yeung³; Taranjit S Gujral²; Shao-En Ong¹; ¹Department of Pharmacology, University of Washington, Seattle, WA; ²Human Biology Division, Fred Hutchinson Cancer Research Center, Seattle, WA; ³Department of Surgery,

MP 701 Contraceptive Pills Alter Proteome of Erythrocytes and Induce Redox Damages; Laurence Servais¹; Clovis Wouters¹; France Baumans¹; Dominique Baiwir²; Irina Lobysheva³; Flavia Dei Zotti³; Edwin De Pauw¹; Gauthier Eppe¹; Jean-Luc Balligand³; Gabriel Mazzucchelli¹.²; ¹University of Liege, Mass Spectrometry Laboratory, MolSys Research Unit, Liege, Belgium; ²University of Liège, GIGA Proteomics Facility, Liege, Belgium; ³Institute for Experimental and Clinical Research (IREC) and Pole of Pharmacology and Therapeutics (FATH)/UCL, Brussels,

Chemistry, University of Washington, Seattle, WA

University of Washington, Seattle, WA; 4Department of

MP 702 A Fast Sample Processing Strategy for Deep Urine
Label-Free Quantification Proteomic Analysis; Pamela
S Cantrell¹; Xuemei Zeng¹; Nathan A Yates¹.²; ¹Biomedical
Mass Spectrometry Center, University of Pittsburgh Schools
of the Health Sciences, Pittsburgh, PA; ²Department of
Cell Biology, University of Pittsburgh School of Medicine,
Pittsburgh, PA

Belaium

- MP 703 Method Development for the Identification of Proteins in Fingertip Smears by Using MALDI-MS; Cristina Russo¹; Laura Cole¹; Lynda Wyld²; Simona Francese¹; ¹Sheffield Hallam University, Sheffield, United Kingdom; ²The University of Sheffield, Sheffield, United Kingdom
- MP 704 Carbonylated Proteome Signatures Caused by Stress during Development of Human Pregnancy in GARBH-Ini cohort; Abhishek Kumar Singh¹; Amit Kumar Dey¹; Pallavi Kshetrapal Kshetrapal²; Nitya Wadhwa²; Shinjini Bhatnagar²; Arindam Maitra³; Dipankar Malakar⁴; Faraz Rashid⁴; Manoj Pillai⁴; Dinakar M Salunke⁵; Tushar Kanti Maiti¹; ¹Regional Centre for Biotechnology, Faridabad, India; ²Translational Health Science and Technology Institute, Faridabad, India; ³National Institute of Biomedical genomics, Kalyani, India; ⁴SCIEX INDIA, Gurugram, India; ⁵International Centre for Genetic Engineering and Biotechnology, Delhi, India
- MP 705 Quantitative Mass Spectrometry-Based Global Proteome and Phosphoproteome Analyses of Thymic Epithelial Tumors (TET); Xu Zhang¹; Fatos Kirkali¹; Yue Qi¹; Ting Huang²; Tapan Maity¹; Khoa Dang Nguyen¹; David S. Schrump³; Olga Vitek²; Arun Rajan¹; Udayan Guha¹; ¹Thoracic and Gl Malignancies Branch, Center for Cancer Research, NCl, NIH, Bethesda, MD; ²Khoury College of Computer Sciences, Northeastern University, Boston, MA; ³Thoracic Surgery Branch, Center for Cancer Research, NCl, NIH, Bethesda, MD
- MP 706 Serum Multi-omics Revealed the Effect of Sport Activity;

 Marcello Manfredi¹; Elisa Robotti¹; Elettra Barberis¹; Maria

 Teresa Valenti²; Emilio Marengo¹; ¹University of Piemonte

 Orientale, Alessandria, Italy; ²University of Verona, Verona,

 Italy
- MP 707 Proteogenomics Identifies Common Drugabble Pathways in Undifferentiated Pleiomorphic Sarcoma; Marcos Y Mayordomo¹.²; Javier A Alfaro²; Georges Bedran¹.²; Nathan a Grimes³; Larry Hayward¹; Jakub Factor¹; Rob O'Neill⁴; Borek Vojtesek⁵; Helen Creedon¹; Satya Saxena⁶; Katy Teo¹; Val Brunton¹; Donald Salter¹; Ted Hupp¹.²; Javier A Alfaro¹.²; ¹University of Edinburgh, Edinburgh, United Kingdom; ²University of Gdansk, Gdansk, Poland; ³University of Edinburgh, United Kingdom; ⁴University of Cambridge, Cambridge, United Kingdom; ⁵Masaryk Memorial Cancer Institute, Oncology, Czech Republic; ⁶University of Baltimore, Baltimore, MD
- MP 708 Identifying Breast Cancer Vulnerabilities by Mapping Interactome Dysregulations in Primary Tumor Samples; Johannes Kreuzer¹; Robert Morris¹; Ridwan Ahmad¹; Cyril H. Benes¹; Dennis C. Sgroi¹; Wilhelm Haas¹; ¹Massachusetts General Hospital and Harvard Medical School, Charlestown, MA



- MP 710 Evaluation of Different Sample Preparation Workflows for Reproducible, Quantitative, and In-Depth Analysis of Urine Proteomics; Hua Ding¹; Hossein Fazelinia¹; Lynn A. Spruce¹; Dana A. Weiss¹; Stephen A. Zderic¹; Steven H. Seeholzer¹; ¹Children's Hospital of Philadelphia, Philadelphia, PA
- MP 711 Biomarker Discovery in Serum and Plasma Using Protein Profiling by MALDI-TOF Mass Spectrometry;

 Eric Weaver¹; Robert English²; Matthew Texter²; Ryan Walsh²; ¹University of Texas, Arlington, Arlington, TX;

 2Shimadzu Scientific Instruments, Inc., Columbia, Maryland
- MP 712 Providing Absolute Certainty without Absolute
 Quantity; Meghan Bradley¹; Christopher M. Shuford¹;
 Patricia L. Holland¹; Michael Levandoski¹; Russell P. Grant¹;

 1LabCorp, Burlington, NC

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- MP 713 MS-Based Deep Proteome Profiling of AD Related Mouse Model Defective in RNA Splicing; Mingming Niu¹; Ping-Chung Chen²; Yun Jiao²; Hong Wang²; Junmin Peng²; ¹St Jude Children's Research Hospital, memphis, TN; ²St Jude Children's Research Hospital, Memphis. TN
- MP 714 Docosahexaenoic Acid Attenuates Metabolic Dysfunctions Induced by Lipopolysaccharide in BV-2 Microglial Cells; Bo Yang^{1, 2}; Runting Li¹; Brian P. Mooney^{1, 2}; Kevin L. Fritsche¹; David Q. Beversdorf¹; Grace Y. Sun¹; C. Michael Greenlief^{1, 2}; ¹University of Missouri, Columbia, MO; ²Charles W. Gehrke Proteomics Center, Columbia, MO
- MP 715 Comparison of Quantitative LC/MS/MS Plant Protein
 Assay Design and Impact on Precision of Results; <u>Kristi</u>
 Harkins¹; Danielle Baker¹; Michaela Owens¹; ¹DowDuPont,
 Johnston. IA
- MP 716 Increasing the Breadth and Depth of Multiplexed Quantitation Using Advanced Instrumentation and Methods; Devin Schweppe¹; Qing Yu¹; Aaron Robitaille²; Graeme McAlister²; Derek J Bailey²; Jose Navarrete-Perea¹; Joao A. Paulo¹; Romain Huguet²; Steven Gygi¹; ¹Harvard Medical School, Boston, MA; ²ThermoFisher, San Jose, CA
- MP 717 Quantitative Proteomic Analysis of Cell Cycle Regulation in Golgi-Matrix Assembly and Disassembly; Hye Kyong Kweon¹; Shijiao Huang¹; Yanzhuang Wang¹; Philip C. Andrews¹; 'University of Michigan, Ann Arbor, MI
- MP 718 Systematic Investigation of Protein Dynamics to Unveil Their Degradation Pathways in Human Cells; Ming Tong¹; Ronghu Wu¹; ¹Georgia Institute of Technology, Atlanta, GA
- MP 719 Developing Mass Spectrometry Based Proteomic Methods to Identify and Quantify Protein Carbonylation in Plants; Georgina H Charlton¹; Cleidiane G Zampronio¹; John Sinclair²; Peter Kilby²; Alex Jones¹; ¹University of Warwick, Coventry, United Kingdom; ²Syngenta Jealott's Hill International Research Centre, Bracknell, United Kingdom
- MP 720 Surpassing 10,000 Proteins Quantified in Human Tissue by Augmenting Single Shot Data-Independent Acquisition (DIA) with Hybrid Libraries; Jan Muntel¹; Tejas Gandhi¹; Lynn Verbeke¹; Oliver M. Bernhardt¹; Roland Bruderer¹; Lukas Reiter¹; ¹Biognosys AG, Schlieren, Switzerland
- MP 721 Dynamic Proteome Changes during Macrophage Polarization Induced by Mouse Colon Cancer Cell-Derived Exosomes; Yifan Tan¹; Lei Sun²; Meishuang Yan³; Yang Li³; Lin Wu²; Yan Ren¹; Xiaomin Lou²; Siqi Liu¹; †BGI-

- Shenzhen, Shenzhen, China; ²Beijing Institute of Genomics, Beijing, China; ³Beijing Protein Innovation, Beijing, China
- MP 722 Proteome-Wide Differences in Turnover Rates
 Among Rodents are Correlated to Their Lifespans
 and Energetic Demands; Kyle Swovick¹; Kevin A
 Welle¹; Jennifer R Hryhorenko¹; Andrei Seluanov¹; Vera
 Gorbunova¹; Sina Ghaemmaghami¹; ¹University of
 Rochester, Rochester, NY
- MP 723 Absolute and Multiplex Protein Quantification Using Cell-Free Protein Synthesis and Mass Spectrometry; Keiko Masuda¹; Keiko Kasahara²; Ryohei Narumi²; Yoshihiro Shimizu³; ¹RIKEN, Suita, Japan; ²National Institutes of Biomedical Innovation, Health and Nutrition, Ibaraki, Japan; ³RIKEN, Suita, Osaka, Japan
- MP 724 A Novel Microduplication of ARID1B: Clinical, Genetic and Proteomic Findings; Kathleen C Lundberg¹; Nicholas Szoko²; Daniela M. Schlatzer¹; Marvin Natowicz²; ¹Case Western Reserve University, Cleveland, OH; ²Cleveland Clinic, Cleveland, OH
- MP 725 Global Proteomics Analysis to Decipher Common Proteostatic Stress Rescue Pathways of the Antioxidants Tempol and MitoTEMPO; Silas D Wood¹; Maggie PY Lam¹; ¹Department of Medicine, Division of Cardiology, Consortium for Fibrosis Research and Translation, Anschutz Medical Campus, Aurora, CO
- MP 726 Histone H3K56-acetylation is Epigenetic Barrier for Embryonic Stem Cell Differentiation into Trophoblasts;

 Jennifer Nance¹; Feixia Chu¹; Thomas Fazzio²; Taylor Hickman¹; Amanda Chasse¹; ¹University of New Hampshire, Durham, NH; ²University of Massachusetts Medical School, Worcester. MA
- MP 727 Increasing Protein Overlap between Multiple Isobaric Mass Tag Experiments with Comprehensive Precursor Ion Inclusion; Simion Kreimer¹; Robert N. Cole¹; ¹Johns Hopkins, Baltimore, MD
- MP 728 Protein Assisted Digestion Improves Sensitivity of Immunocapture-MRM Method to Quantify Stool Biomarker of Colorectal Cancer; Rebecca Bearden¹; Baochuan Guo¹; ¹Cleveland State University, Cleveland, OH
- MP 729 In vivo Protein Turnover Rates in Mouse and Human Tissues; Brian L. Frey¹; Zach Rolfs¹; Xudong Shi¹; Yoshitaka Kawai¹; Bruce A. Buchholz²; Lloyd M. Smith¹; Nathan V. Welham¹; ¹University of Wisconsin - Madison, Madison, WI; ²Lawrence Livermore National Laboratory, Livermore, CA
- MP 730 Characterization of the Ubiquitination Signaling on Hypoxia-Inducible Factor with Quantitative Chemical Proteomics Analysis; Yunan Li¹; Ang Luo¹; Luke Erber¹; Yue Chen¹; ¹University of Minnesota at Twin Cities, Minneapolis, MN
- MP 731 Identification and Characterizations of O2- and O4-Alkylthymidine DNA-Binding Proteins; Xiaomei He¹; Pengcheng Wang¹; Hong Wang¹; ¹University of California, Riverside, Riverside, CA
- MP 732 Evaluation of the Accuracy of Synchronous Precursor Selection (SPS) in Public Datasets; Conor Jenkins^{1, 2}; Aimee Rinas³; Benjamin Orsburn¹; ¹Think20 Labs, Columbia, MD; ²Hood College Bioinformatics Program, Frederick, MD; ³AIT BioSciences, Indianapolis, IN
- MP 733 Applications of Mass Spectrometry Targeted Assays for Quantitative Analysis of Cancer Signaling Proteins; Penny Jensen¹; Bhavin Patel¹; Leigh A Foster¹; Aaron S. Gajadhar²; Sebastien Gallien³; Jonathan R Krieger⁴; Jiefei Tong⁵; Michael F. Moran⁴; Rosa Viner²; Andreas Huhmer²; Kay Opperman¹; John C Rogers¹; ¹Thermo Fisher Scientific, Rockford, IL; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, Precision Medicine Science Center, Cambridge, MA; ⁴SPARC BioCentre, Hospital for Sick Children, Toronto, Ontario; ⁵Program in Cell Biology, The Hospital for Sick Children, Toronto, Ontario



- MP 734 A Modified Orbitrap™ Tribrid Mass Spectrometer with Real-Time Search and Advanced Spectral Processing Enhances Multiplexed Proteome Coverage and Quantification Accuracy; Aaron M Robitaille¹; Romain Huguet¹; Derek J Bailey¹; Graeme McAlister¹; Arne Kreutzmann²; Daniel Mourad²; Daniel Lopez-Ferrer¹; Andreas Huhmer¹; Vlad Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bremen, Germanv
- MP 735 Improved Identification, Quantification Accuracy, and Workflow Efficiency Using a Modified Quadrupole Orbitrap™ Mass Spectrometer and Tandem Mass Tags™ (TMT™) Approach; Aaron Robitaille¹; Tabiwang N. Arrey²; Markus Kellmann²; Arne Kreutzmann²; Daniel Mourad²; Daniel Lopez-Ferrer¹; Andreas Huhmer¹; Alexander Harder²; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bremen, Germany
- MP 736 Strategies for Sample Normalization Post-Acquisition for Tandem Mass Tag (TMTTM) Quantitative Workflow;

 Pedro Navarro¹; Fernando J García Marqués²; Woong Kim³; Greg Foster³; Sharon J. Pitteri²; Daniel Lopez-Ferrer³;

 ¹Thermo Fisher Scientific, Bremen, Germany; ²Stanford University School of Medicine, Canary Center at Stanford for Cancer Early Detection, Palo Alto, CA; ³Thermo Fisher Scientific, San Jose, CA

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- MP 737 Top-down Mass Spectrometry Characterization of Phospholamban Proteoforms in Cardiac Tissue Enabled by A Novel Photo-cleavable Surfactant; Austin Carr¹; Kyle Brown¹; Song Jin¹; Ying Ge¹.².³.⁴; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; ²Department of Cell and Regenerative Biology, University of Wisconsin-Madison, Madison, WI; ³Molecular and Cellular Pharmacology Program, University of Wisconsin, Madison, WI; ⁴Human Proteomics Program, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI
- MP 738 BirA* Mice Enable Cell Type Specific Proteomics in vivo; Shiva Ahmadi¹,²; Elham Pourbarkhordariesfandabadi¹,²; Angela Egert²; Martin Breitbach²; Caroline Geissen²; Michael Hesse²; Kenichi Kimura²; Bernd K Fleischmann²; Hubert Schorle²; Volkmar Gieselmann¹,²; Dominic Winter¹,²; ¹IBMB Bonn, Bonn, Germany; ²University of Bonn, Bonn, Germany
- MP 739 Identification Commutability in Proteomics and Metabolomics Utilizing Human Tissue Reference Materials; Clay Davis¹; Benjamin Neely¹; Tracey Schock¹; Lisa Kilpatrick²; Debra Ellisor¹; Rebecca Pugh¹; ¹NIST, Charleston, SC; ²NIST, Gaithersburg, MD
- MP 740 Alterations in Extracellular Matrix Composition during Aging and Photoaging of the Skin; Maxwell Mccabe¹; Kirk Hansen¹; Ryan Hill¹; Gary Fisher²; Taihao Quan²; ¹University of Colorado Anschutz Medical Campus, Aurora, CO; ²University of Michigan, Ann Arbor, MI
- MP 741 Proteomic Profiling of Mitochondrial Complexomes;
 Naked Mole Rat Versus Mouse; Satomi Miwa¹; Andrew
 J Porter¹; Graham Smith¹; Achim Treumann¹; Pawel
 Palmowski¹; Andrei Seluanov²; Vera Gorbunova²; Thomas
 Von Zgliniki¹; ¹Newcastle University, Newcastle Upon
 Tyne, United Kingdom; ²Rochester Institute of Technology,
 Rochester, NY
- MP 742 Proteomics on Immune Competent Mouse Models
 Reveals Differences in Immunogenicity; Fang Wang¹;
 Wenyan Zhong¹; Edward Rosfjord,¹; Xiaoran S. Yang¹;
 Luanna Lemon¹; Jeremy S. Myers¹; ¹Pfizer WRD, Pearl
 River, NY

- MP 743 A Proteomic Investigation of Changes in the Collagen Types Present in the Anterior Cruciate Ligament during Post-Natal Growth; Jeffrey R. Enders^{1,2}; Stephanie G. Cone¹; Matthew B. Fisher¹; ¹North Carolina State University, Raleigh, NC; ²Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
- MP 744 Body-Wide Proteome Dynamics in the Understanding and Assessment of Multiorgan Drug Response; Bingyun Sun; Simon Fraser University, Burnaby, BC
- MP 745 Bone Proteomics: Enhancing Homogenization of Bone Samples for Increased Proteomic Depth; Rowan Matney¹; Kratika Singhal¹; Fang Liu¹; Ryan D. Leib¹; Allis S. Chien¹; *1Stanford University Mass Spectrometry, Stanford, CA
- MP 746 Elucidating Alternative Biological Pathways with Tailored Enrichment Strategies from Clinical Tissue Samples; Kratika Singhal¹; Rowan Matney¹; Fang Liu¹; Ryan Leib¹; Allis Chien¹; ¹Stanford University Mass Spectrometry, Stanford, CA
- MP 747 Distinct Blubber Proteome Responses to Single and Repeated ACTH Challenges in a Marine Mammal; Jared Deyarmin¹; Molly McCormley¹; Cory Champagne²; Alicia Stephan¹; Laura Pujade Busqueta¹; Dorian Houser²; Daniel Crocker³; Jane Khudyakov¹.²; ¹University of the Pacific, Stockton, CA; ²National Marine Mammal Foundation, San Diego, CA; ³Sonoma State University, Rohnert Park, CA
- MP 748 Identification of Estradiol-Regulated Protein Networks and Associated Biological Processes in the Rat Retina by Label-Free Quantitative Proteomics; Laszlo Prokai'; Khadiza Zaman¹; Fatima Rahlouni¹; Vien Nguyen¹; Vladimir Shulaev²; Katalin Prokai-Tatrai¹; ¹University of North Texas Health Science Center, Fort Worth, TX; ²University of North Texas, Denton, TX
- MP 749 A Novel Proteomic Method Defines Extracellular Matrix Proteins and Their Post-Translational Modifications from Formalin-Fixed, Paraffin-Embedded Specimens of Heart Valve Disease; Cassandra L Clift¹; Susana Comte-Walters¹; Lauren E Ball¹; David Bichell²; Yan Ru Su³; Anand Mehta¹; Richard R Drake¹; Peggi M. Angel¹; ¹Department of Cell and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, Charleston, SC; ²Division of Pediatric Cardiac Surgery, Vanderbilt University Medical Center, Nashville, TN; ³Department of Cardiovascular Medicine, Vanderbilt University Medical Center, Nashville, TN
- MP 750 Comprehensive Proteomic Analysis of Gray and White Matter from Human Post-Mortem Brain Tissue; Duc M Duong^{1, 2}; Luming Yin^{1, 2}; James J. Lah^{2, 3}; Allan I. Levey^{2, 3}; Nicholas T. Seyfried^{1, 2, 3}; *1Department of Biochemistry, Emory University, Atlanta, GA; *2Center for Neurodegenerative Diseases, Emory School of Medicine, Atlanta, GA; *3Department of Neurology, Emory University, Atlanta, GA
- MP 751 Proteomic Analysis of Extracellular Matrix Dynamics during Mouse Forelimb Development; Kathryn R.

 Jacobson¹; Sarah L Lipp¹; Alex R. Ocken¹; Tamara L.

 Kinzer-Ursem¹; Sarah Calve¹; ¹Purdue University, West Lafayette, IN
- MP 752 Extensive Intratumor Proteogenomic Heterogeneity Revealed by Multiregion Sampling in a High-Grade Serous Ovarian Tumor Specimen; Thomas P. Conrads¹ ²; Allison L. Hunt¹; Guisong Wang²; Julie Oliver²; Dave Mitchell²; Glenn Gist²; Brian Hood²; Ming Zhou¹; Brian Blanton²; Kelly Conrads²; Chad Hamilton²; Kathleen Darcy²; Craig Shriver³; Yovanni Casablanca²; George Larry Maxwell²; Nicholas W. Bateman²; ¹Inova Schar Cancer Institute, Annandale, VA; ²Gynecologic Cancer Center of Excellence, Annandale, VA; ³John P. Murtha Cancer Center, Bethesda, MD

- MP 753 MMP-28 Alters Immunometabolic and Bioenergetic Profile of Activated Macrophages; Dorota Tokmina-Roszyk¹,²; Lillian Onwuha-Ekpete¹,²; Mohammed Refai³; Monika Tokmina-Lukaszewska³; Brian Bothner³; Gregg Fields¹,²; ¹Florida Atlantic University, Jupiter, FL; ²The Scripps Research Institute, Jupiter, FL; ³Montana State University, Bozeman, MT
- MP 754 Proteomic Analysis of Human Glioblastoma Formalin-Fixed Paraffin-Embedded Tissues; Naomi Uwugiaren¹; Jakub Faktor²; David R Goodlett¹.³; Fiona Lickiss¹.⁴; Sofian Al Shboul⁴; Paul M Brennan⁵; Borek Vojtesek²; Theodore R Hupp¹.⁴; Irena Dapic¹; ¹International Centre for Cancer Vaccine Science, University of Gdansk, Gdansk, Poland; ²RECAMO, Brno, Czech Republic; ³University of Maryland, Baltimore, MD; ⁴CRUK, University of Edinburgh, Edinburgh, United Kingdom; ⁵Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, United Kingdom
- MP 755 A Global, Multi-Regional Proteomic Map of the Human Cerebral Cortex; Zhengguang Guo1; Chen Shao2; Yang Zhang³; Wenying Qiu⁴; Wenting Li⁴; Qian Yang⁴; Yin Huang²; Yuepan Dong²; Haidan Sun⁵; Xiaoping Xiao⁵; Wei Sun⁵; Chao Ma⁴; Liwei Zhang³; ¹Peking Union Medicine College, Beijing, China; ²Beijing Proteome Research Center, National Center for Protein Sciences(Beijing), Beijing Institute of Lifeomics, Beijing, China; 3Beijing Tiantan Hospital, Capital Medical University, Beijing, China; ⁴Institute of Basic Medical Sciences, Neuroscience Center, Chinese Academy of Medical Sciences, School of Basic Medicine, Peking Union Medical College, Beijing, China; ⁵Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences/School of Basic Medicine, Peking Union Medical College, Beijing, China
- MP 756 Identification and Validation of Synapse-Loss
 Regulating Phosphorylation Events in Schizophrenia;
 Megan Garver¹; Ying Ding²; Robert Sweet¹; Nathan A
 Yates³; Matthew L MacDonald¹; ¹UPMC, Pittsburgh, PA;
 ¹Department of Biostatistics, University of Pittsburgh,
 Pittsburgh, Pennsylvania; ³BioMS Center, University of
 Pittsburgh, Pittsburgh, Pennsylvania
- MP 757 Quantitative proteomics Analysis of Placenta from Zika Virus Infected Women; Gabriel Borges Vélez¹; Julio Rosado Philippi²; Abiel Roche Lima¹; Kelvin Carrasquillo Carrión¹; Yadira M Cantres Rosario¹; Maria S Correa Rivas³; Loyda M Meléndez⁴; ¹University of Puerto Rico Medical Sciences Campus, San Juan, Puerto Rico; ²University of Puerto Rico Rico Piedras Campus, San Juan, PR; ³University of Puerto Rico Medical Sciences Campus, Quebradillas, PR; ⁴University of Puerto Rico Medical Sciences Campus, San Juan, PR
- MP 758 Quantitative Proteogenomic Analysis of Inflamed Colon Tissue in Mice Reveals an Increase in Non-Canonical Protein Variants; Andrew T. Rajczewski¹; Qiyuan Han¹; Subina Mehta¹; Praveen Kumar¹; Pratik D Jagtap¹; Natalia Tretyakova¹; Timothy J. Griffin¹; 'University of Minnesota, Minneapolis, MN
- MP 759 Interactome of the PIF Peptide (Preimplantation Factor) in Uterine Environment from Different Mammals –
 Proteomic Studies; Anna Fel¹; Paulina Czaplewska¹;
 Katarzyna Macur¹; Marcel Thiel¹; Stanislaw Oldziej¹;
 ¹University of Gdansk, Gdansk, Poland
- MP 760 KIT Restriction of Skin Proteome Analyzed with MALDI-Imaging Mass Spectrometry and Shotgun Proteomics on c-Kitmutant Mice; Mayuka Kosugi¹; Masaya Ikegawa²-³; Nobuto Kakuda²; Takashi Nirasawa⁴; Ryo Kajita⁴; Kazuo Kinoshita⁵; Yuki Kuzuhara³; ¹Doshisha University, Kyotanabe City, Kyoto, Japan; ²Graduate School, Major of Medical Life Systems, Doshisha University, Kyotanabe City, Japan; ³Department of Medical Life Systems, Doshisha University, Kyotanabe City, Japan; ⁴Bruker Japan K.K.,

- Yokohama, Japan; ⁵Shiga Medical Center Research Institute, Moriyama, Japan
- MP 761 A Label-free Quantification Approach to Identify
 Differentially Expressed Proteins between Wild Type
 and Transgenic Alzheimer Rat Brains; Pritha Bagchi¹;
 Eric B. Dammer¹; Geng M. Wang¹; Robert M. Cohen²;
 Nicholas T. Seyfried¹.³; ¹Emory Integrated Proteomics Core,
 Emory University, Atlanta, GA; ²Department of Psychiatry
 and Behavioral Sciences, Emory University, Atlanta, GA;
 ³Department of Biochemistry, Emory University, Atlanta, GA
- MP 762 Fast and Sensitive Quantitative Proteomic Analysis of Formalin-Fixed Paraffin-Embedded Tissue Using a Trapped Ion Mobility Q-TOF; Matthew Willetts¹; Shourjo Ghose²; Christopher Swift²; Gary Kruppa²; John P Shapiro³; Brad H Rovin³; Matthias Kretzler⁴; Jeff Hodgin⁴; ¹Bruker, Billerica, MA; ²Bruker Scientific, Billerica, MA; ³The Ohio State University, Columbus, OH; ⁴University of Michigan Medical School, Ann Arbor, MI
- MP 763 Comparison of S-Trap, iST and Conventional Digestion Methods for Serum Proteomics; Benjamin Neely^{1, 2}; Alison Bland^{2, 3}; Michael Janech^{2, 3}; **IMarine Biochemical Sciences Group, National Institute of Standards and Technology, NIST Charleston, Charleston, SC; **2Hollings Marine Laboratory, Charleston, SC; **3College of Charleston, Charleston, SC
- MP 764 Quantitative Proteome and Neuropeptide Profiling in Female Pregnant Mice with Neuropathic Pain by High-Resolution Mass Spectrometry; Madeleine Parent-Vachon¹; Pascal Vachon¹; Francis Beaudry¹; ¹Universite de Montreal, St-Hyacinthe, QC
- MP 765 **Cellular Precision for Infrared Laser Ablation Tissue Microproteomics**; <u>Chao Dong</u>¹; Fabrizio Donnarumma¹;
 Kelin Wang¹; Kermit K. Murray¹; ¹Louisiana State University,
 Baton Rouge, LA
- MP 766 Quantitative Proteomics of Tuberculosis Lung FFPE Tissue by SWATH Analysis; Amon Suzuki¹; Yasuhiro Hirano¹; Mina Kawamura¹; Akihiro Ishizu²; Susumu Y. Imanishi¹; ¹Meijo University, Nagoya, Japan; ²Hokkaido University, Sapporo, Japan
- MP 767 MS-Based Strategies Reveal Extracellular Matrix
 Alterations and N-Glycan Spatial Distribution Changes
 with the Progression of Ovarian Cancer; Zihui Li¹; Yatao
 Shi²; Fengfei Ma²; Kristal L. Gant³; Manish S. Patankar³;
 Lingjun Li¹.²; ¹Department of Chemistry, University of
 Wisconsin-Madison, Madison, WI; ²School of Pharmacy,
 University of Wisconsin-Madison, Madison, WI; ³Department
 of Obstetrics and Gynecology, University of WisconsinMadison, Madison, WI
- MP 768 Latest developments of Liquid Extraction Surface
 Analysis Mass Spectrometry for Top-Down and BottomUp Investigation of Protein Biomarkers in Renal
 Fibrosis; Emma K Sisley¹; Francisco Fernandez-Lima²;
 Tim Johnson³; Peter Hall³; Iain B Styles¹; Helen J Cooper¹;
 ¹University of Birmingham, Birmingham, United Kingdom;
 ²Florida International University, Miami, FL; ³UCB Pharma
 LTD, Slough, United Kingdom

PROTEOMICS: TOP DOWN ANALYSIS I 769-787

MP 769 Large-Scale Qualitative and Quantitative Top-Down Proteomics Using Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry with Nanograms of Proteome Samples; Rachele Lubeckyj¹; Abdul Rehman Bashara²; Xiaojing Shen³; Xiaowen Liu²-⁴; Liangliang Sun³; ¹Michigan State University, East Lansing, MI; ²Indiana University-Purdue University Indianapolis, Indianapolis, Indiana; ³Michigan State University, East Lansing; ⁴Indiana University School of Medicine, Indianapolis, Indiana



- MP 770 Top-down Analysis of β-lactoglobulin Involving
 Disulfide Bond Cleavages; Jianzhong Chen; University of
 Alabama at Birmingham, Birmingham, AL
- MP 771 Valet Parking for Protein Ion Charge State
 Concentration: Ion/Molecule Reactions in Linear Ion
 Traps; David Foreman¹; Jay Bhanot¹; Kenneth W Lee¹;
 Scott A McLuckey¹; ¹Purdue University, West Lafayette, IN
- MP 772 Single Muscle Fiber Proteomics Enabled by High Sensitivity Top-Down Mass Spectrometry; <u>Jake A. Melby</u>¹; Yutong Jin¹; Trisha Tucholski¹; Yanlong Zhu¹; Ziqing Lin¹; Gary Diffee¹; Ying Ge¹; ¹University of Wisconsin, Madison. Madison. WI
- MP 773 Improved Top-Down Search Accuracy and Sensitivity using MetaMorpheus and a Novel Algorithm for Monoisotopic Mass Determination; Robert Millikin¹; Leah V. Schaffer¹; Michael R. Shortreed¹; Lloyd M. Smith¹; ¹University of Wisconsin Madison, Madison, WI
- MP 774 **Top-Down Proteomics Applied to Human CSF**; Marina Gay¹; Ester Sánchez-Jiménez¹; Laura Villarreal¹; Mar Vilanova¹; Romain Huguet²; Gianluca Arauz-Garofalo¹; Antonio Lorenzo¹; Mireia Díaz-Lobo¹; Daniel López-Ferrer²; Marta Vilaseca¹; ¹Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology (BIST), Barcelona, Spain; ²ThermoFisher, San Jose, CA
- MP 775 Deciphering the Tubulin Code with Top-Down Proteomics; Mathieu Dupré¹; Thibault Chaze¹; Elise Warter²; Serge Bonnefoy²; Jujimon A.s³; Philippe Bastin²; Carsten Janke³; Mariette Matondo¹; Julia Chamot-Rooke¹; ¹Mass Spectrometry for Biology Unit, Institut Pasteur, CNRS USR2000, Paris, France; ²Trypanosome Cell Biology Unit, Institut Pasteur, INSERM U1201, Paris, France; ³Regulation of Microtubule Dynamics and Functions Unit, Institut Curie, CNRS UMR3348, Orsay, France
- MP 776 Extending the Mass Range for Native Top-Down
 Mass Spectrometry by UVPD; Jean-Francois Greisch¹.

 ²; Sem Tamara^{1,2}; Albert J.R. Heck^{1,2}; ¹Biomolecular
 Mass Spectrometry and Proteomics, Bijvoet Center
 for Biomolecular Research and Utrecht Institute of
 Pharmaceutical Sciences, Utrecht University, Utrecht,
 Netherlands; ²Netherlands Proteomics Center, Utrecht,
 Netherlands
- MP 777 Controlling False-Discovery Rate for Top Down Proteomics Data Using UVPD Fragmentation; Ken Durbin¹; Luca Fornelli².³; Joseph Greer⁴; Ryan Fellers¹; Mick Greer⁵; David Horn⁵; Neil L Kelleher³; ¹Proteinaceous, Evanston, IL; ²University of Oklahoma, Norman, OK; ³Northwestern University, Evanston, IL; ⁴Proteinaceous, Inc., Evanston, IL; ⁵Thermo Fisher Scientific, Austin, TX; ⁵Thermo Fisher Scientific, San Jose, CA
- MP 778 Precise Characterization and Comparison of KRAS Oncoproteoforms across Three Cancer Contexts;

 Lauren Adams¹; Caroline J DeHart¹; Lissa C Anderson²;

 Luca Fornelli³; Christopher L. Hendrickson²; Neil L Kelleher¹;

 ¹Northwestern University, Evanston, IL; ²National High Magnetic Field Laboratory, Tallahassee, FL; ³University of Oklahoma, Norman, OK
- MP 779 Large Scale Informatics for Interrogating Proteoforms in Human Blood Cells with Top Down Proteomics; Joseph B Greer¹; Ryan T Fellers¹; Richard D Leduc¹; Bryan P Early¹; Josiah E Hutton¹; Rafael D Melani¹; Jacek W Sikora¹; R Vince Gerbasi¹; Jeannie M Camarillo¹; Paul M Thomas¹; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL
- MP 780 High-Field Asymmetric Ion Mobility Spectrometry of Heterogeneous Proteoform Populations from Primary Human Leukocytes; Robert V Gerbasi¹; Susan E Abbatiello²; Rafael D. Melani¹; Michael W. Belford³; Scott M. Peterman³; Romain Huguet³; Philip D. Compton¹; Paul M Thomas¹; Neil L Kelleher¹; *Northwestern University*,

- Evanston, IL; ²Northeastern University, Boston, MA 02115; ³Thermo Fisher Scientific. San Jose, CA
- MP 781 Identification of Lactobacillus and Saccharomyces at Species Level in Industrial Ethanol Production
 Using Spectral Signatures by MALDI-TOF MS; Juliana
 Guimarães Fonseca; ESALQ/ USP, Piracicaba, Brazil
- MP 782 Middle Down Approach for the Characterization of Monoclonal Antibodies after Ides Digestion and ETD Fragmentation; John L. Snyder¹; Colin M Wynne¹; Michelle English²; Marshall Bern²; **IEurofins Lancaster Laboratories, Inc., Lancaster, PA; **Protein Metrics Inc., San Carlos, CA
- MP 783 Profiling Combinatorial Posttranslational Modifications in Seminal Plasma from Dairy Bulls via Sheathless Capillary Zone Electrophoresis Top-Down Mass Spectrometry; Fabio P. Gomes¹; Jolene K. Diedrich¹; Anthony J. Saviola¹; Abdullah Kaya²; Erdogan Memili³; Arlindo A. Moura⁴; John R. Yates, III¹; ¹The Scripps Research Institute, La Jolla, CA; ²Selcuk University, Selçuklu, Turkey; ³The Mississippi State University, Starkville, MS; ⁴The Federal University of Ceara, Fortaleza, Brazil
- MP 784 Dipolar DC Induced Collisional Activation of Non-Dissociated Electron-Transfer Products; Sarju Adhikari¹; Mack Shih¹; Eric T Dziekonski²; Frank A Londry²; Scott A McLuckey¹; ¹Purdue University, West Lafayette, IN; ²SCIEX, Concord. ON
- MP 785 **Enhancing Top-Down Proteomics Data Analysis by** Combining Deconvolution Results using Ensemble Methods; Molly Wetzel1; Daniel Belongia2; Yutong Jin3; Zhijie Wu³; Irene M. Ong^{2, 4, 5}; Sean J. McIlwain^{1, 4}; Ying Ge^{1, 2, 6, 7}; ¹Department of Cell and Regenerative Biology. University of Wisconsin-Madison, Madison, WI; 2School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI; 3Department of Chemistry, University of Wisconsin-Madison, Madison, WI; 4Department of Biostatistics and Medical Informatics. University of Wisconsin - Madison, Madison, WI; 5Department of Obstetrics & Gynecology, University of Wisconsin - Madison, Madison, WI; Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; 7Human Proteomics Program, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI
- MP 786 Charge Deconvolution of Dissociation Spectra of Protein Complexes; Marshall W. Bern¹; Yong J. Kil¹; Jing Yan²; Zachary L VanAernum²; Vicki H Wysocki²; ¹Protein Metrics, San Carlos, CA; ²The Ohio State University, Columbus. OH
- MP 787 Investigation into Data-Independent Acquisition in Orbitrap and TOF platform for Topdown Proteomics Using Intact and Byonic software; Victoria Sanchez¹; Elisabeth Weyher¹; K. Ilker Sen²; Marshall W. Bern²; Nagarjuna Nagaraj¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany; ²Protein Metrics Inc., Cupertino, CA

TUESDAY POSTERS



Set up all Tuesday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 – 2:30 pm

Even-numbered posters present

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Tuesday posters 7:00 - 8:00 pm

Antibodies & Antibody Drug Conjugates I	001-022
Art, Archaeology & Paleontology	023-036
Biomarkers: Discovery I	
Biomarkers: Quantitative Analysis II	069-099
Clinical Analysis II	100-123
Disease Biomarkers I	124-141
Energy: Hydrocarbon and Petrochemical	142-159
Environmental: General II	
Environmental: Pharmaceuticals and Pesticides	192-212
Food Safety II	213-242
Forensics II	243-269
Fundamentals: Ion Structure/Energetics	270-287
Fundamentals: Ionization Mechanisms	288-297
GC/MS: Instrumentation and Applications I	298-318
H/D Exchange: Protein Structure/Function	319-343
Imaging MS: Method Development I	344-364
Imaging MS: Pharmaceutical Applications	365-379
Imaging MS: Sample Preparation	380-387
Imaging MS: Small Molecules	388-407
Imaging MS: Software	408-415
Informatics: Multiomics Integration	416-440
Instrumentation: Mini/Portable/Fieldable MS	441-457
Instrumentation: New Developments in Ion Detection	458-496
Ion Mobility: Applications I	497-519
Ion Mobility: FAIMS/DMS	520-529
Metabolomics: General I	530-549
Metabolomics: Untargeted Metabolite Profiling	550-568
Phosphopeptides: Quantitative Analysis	569-579
Protein Therapeutics: Quantitative Analysis II	580-605
Protein Therapeutics: Structural Characterization II	606-625
Proteins: PTMs I	626-646
Proteomics: Infectious Diseases	647-657
Proteomics: Intact Proteins	658-666
Proteomics: New Approaches I	667-694
Proteomics: Quantitative II	695-717
Proteomics: Top Down Analysis II	
Small Molecules: Qualitative Analysis	
Systems Biology	757-780

ANTIBODIES & ANTIBODY DRUG CONJUGATES I 001-022

- TP 001 Evaluating the Performance of an Orbitrap Tribrid at 8000 m/z; John P. McGee¹; Rafael Melani¹; Mike Senko²; Vlad Zabrouskov²; Philip Remes²; Graeme McAlister²; Christopher Mullen²; Jesse Canterbury²; Michael Goodwin²; Romain Huguet²; Lee Early²; Neil L. Kelleher¹; Philip D. Compton¹; ¹Northwestern University, Evanston, IL; ²Thermo Fisher Scientific, San Jose, CA
- TP 002 Analysis of Therapeutic Monoclonal Antibodies Using Volatile pH Gradient Cation Exchange Chromatography Directly Coupled to Native Mass Spectrometry; Julia Baek¹; Rosa Viner²; Terry Zhang²; James Ngai³; Eugen Damoc⁴; Shanhua Lin⁵; ¹Thermo Fisher Scientific, Sunnyvale, California; ²Thermo Fisher Scientific, San Jose, California; ³Thermo Fisher Scientific, Sunnyvale; ⁴Thermo Fisher Scientific, Bremen, Germany; ⁵Thermo Fisher Scientific, Sunnyvale, CA
- TP 003 Online IEX-MS Characterization and Monitoring of mAb Charge Heterogeneity Using an Optimized Cation Exchange Resin and Compact TOF Mass Spectrometer; Samantha Ippoliti¹; Qi Wang¹; Ying Qing Yu¹; Matthew A. Lauber¹; Henry Shion¹; ¹Waters Corporation, Milford, MA
- TP 004 Optimizing MS/MS Acquisition to Generate a
 Comprehensive Multi-Attribute Method Data Archive of
 the NISTmAb; Michael E. Pettit¹; John E. Schiel¹; ¹National
 Institute of Standards and Technology, Gaithersburg, MD
- TP 005 A Novel Approach to Stability Characterization of ADC Payload Related Degradation through Assessment of Capped Drug-Linker ADC Surrogates; Michael Lesslie¹; Beijing Huang¹; Gilbert Mbah¹; Brittney Mills¹; Jianwen Xu²;

 *AbbVie Inc., North Chicago, IL; *AbbVie Inc., Worcester,
- TP 006 Improve Sensitivity and Mass Accuracy in IEC-MS
 Analysis of Antibody Charge Variants; Kyoung-Soon
 Choi¹; Zhongping Liao¹; Jason X. Tang¹; ¹Eli Lilly &
 Company, Indianapolis, IN
- TP 007 Coupling Mixed-Mode Size Exclusion Chromatography with Native Mass Spectrometry for the Analysis of Intact Monoclonal Antibodies; Yuetian Yan¹; Tao Xing¹; Shunhai Wang¹; Ning Li¹; Thomas J. Daly¹; ¹Regeneron, Tarrytown, NY
- TP 008 Development and Qualification of a Difluoroacetic acid (DFA)-Based Subunit LC-MS Method for ADC Characterization; Jacquelynn Smith¹; Jennifer Nguyen²; Olga Friese¹; Jason Rouse³; Matthew A. Lauber²; ¹Pfizer, Chesterfield, MO; ²Waters Corporation, Milford, MA; ³Pfizer, Andover, MA
- TP 009 Application of Wildcard Search Approach in Sequence Variant Analysis; <u>Yutian Gan</u>; Genentech, Inc., South San Francisco, CA
- TP 010 EThcD Spectrum with Deep Novo Enables the Discrimination of Leucine and Isoleucine; Yi Liu¹; Wen Zhang¹; Rui Qiao²; Ngoc Hieu Tran²; Lei Xin¹; ¹Bioinformatics Solutions Inc., Waterloo, ON; ²University of Waterloo, Waterloo, ON
- TP 012 Characterization of Cetuximab using pH Gradient Cation Exchange and Microchip Electrophoresis Coupled to Native Orbitrap Mass Spectrometry; Florian Fuessl¹; Craig Jakes¹; Sara Carillo¹; Ashley Bell²; Erin A. Redman²; Ken Cook³; Jonathan Bones¹; ¹The National Institute for Bioprocessing Research & Training, Dublin, Ireland; ²908 Devices, Boston, MA; ³Thermo Fisher Scientific, Hemel Hempstead, UK, Hemel Hempstead, United Kingdom

TUESDAY POSTERS



- TP 013 Analysis of Monoclonal Antibodies using SEC-MS in Native and Denaturing States to Identify Aggregation during DuoBody Formation; Elsa Gorre¹; Rajiv Rao²; Rebecca Smith²; Andrew Mahan¹; Harsha Gunawardena¹; Hirsh Nanda¹; ¹Janssen Research and Development, Spring House, PA; ²Janssen Research & Development, Large Molecule Drug Product Development, Malvern, PA
- TP 014 Structural Characterizations of Intact Monoclonal Antibodies by Native MS; Angela Criscuolo^{1, 2}; Tabiwang N. Arrey²; Eugen Damoc²; Thomas Moehring²; Catharina Crone²; Markus Kellmann²; 'Leipzig University, Leipzig, Germany; ²Thermo Fisher Scientific (Bremen) GmbH, Bremen, Germany
- TP 015 Automated Comprehensive Characterization and Quantification of Low-Abundance Sequence Variants in a Standard Monoclonal Antibody; Joe Shambaugh¹; Aude Tartiere²; Albert Van Wyk³; John McCarter⁴; Cassandra Wigmore⁵; Peter Haberl⁶; ¹Genedata Inc, Lexington, MA; ²Genedata, Inc., San Francisco, CA; ³Genedata Ltd, Cambridge, United Kingdom; ⁴Genedata, Inc., Lexington, MA; ⁵Genedata AG, Basel, Switzerland; ⁶Genedata GmbH, Munich, Germany
- TP 016 Using Cation Exchange Chromatography and Online Mass Spectrometry (CEX-MS) for Assignment of iCIEF Charge Variants; Kevin Ray¹; Ben Cutak¹; Shreya Ahuja¹; ¹MilliporeSigma, St. Louis, MO
- TP 017 Characterization of BiTE® Antibody Constructs by Hydrophilic Interaction Chromatography Coupled to Mass Spectrometry; Yang Stella Song¹; Amy Huang¹; John Harrahy¹; ¹Amgen Inc., Cambridge, MA
- TP 018 Native Top-Down Analysis of Intact Antibodies
 Using Multiple Dissociation Techniques on a
 Tribrid Quadrupole Orbitrap Linear Ion Trap Mass
 Spectrometer; Eugen Damoc¹; Kristina Srzentić²; Romain
 Huguet³; Graeme McAlister³; Christopher Mullen³; Philip
 M Remes³; Jesse D Canterbury³; Mike Senko³; Vlad
 Zabrouskov³; ¹Thermo Fisher Scientific, Bremen, Germany;
 ¹Thermo Fisher Scientific, Cambridge, Massachusetts;
 ³Thermo Fisher Scientific, San Jose, California
- TP 019 Process Monitoring of Monoclonal Antibodies at Intact and Subunits Levels using a Single Quadrupole LC/MS for Quality Control; Linfeng Wu¹; Lisa Zang¹; Guannan Li¹;

 ¹Agilent Technologies, Santa Clara, CA
- TP 020 The Impact of Using Different Protease Combinations for "de novo" Protein Sequencing; Thierry Le Bihan¹; Paul Taylor¹; Zac McDonald¹; Qixin Liu¹; Jianqiao Shen¹; Kathleen Gorospe¹; Xin Xu¹; Chris Hosfield²; Bin Ma¹.

 3; 'Rapid Novor Inc, Kitchener; 'Promega Corporation, Madison. WI: 'University of Waterloo, Waterloo
- TP 021 Improving Assignment of Sequence Variants Using Machine Learning; Sibylle Heidelberger¹; Lyle Burton²; Sean L. Seymour³; ¹AB Sciex UK Ltd, Warrington, United Kingdom; ²SCIEX, Concord, ON; ³Seymour Data Science, San Francisco, CA
- TP 022 Isotope Selection in Label-Free Quantification and its Effects in Biopharmaceutical Characterization; <u>David Mahon</u>¹; K. Ilker Sen²; Yong J. Kil²; Promod Mehndiratta¹;

 ¹Celgene, Summit, NJ; ²Protein Metrics Inc., Cupertino, CA

ART, ARCHAEOLOGY & PALEONTOLOGY 023-036

- TP 023 What Sherlock Sorely Missed: The EVA Technology for Cultural Heritage Exploration; Gleb Zilberstein¹; Alfonsina D'Amato²; Piergiorgio Righetti³; ¹Spectrophon Ltd., Rehovot, Israel; ²Università degli Studi di Milano, Dept. Pharmaceutical Sciences, Milano, Italy; ³Politecnico di Milano, Dept. of Chemistry, Milano, Italy
- TP 024 Multiple Techniques Confirm Collagen Remnants in Fossil Bone; Brian Thomas¹; Robert Layfield²; Lynn Smith³;

- Barry Shaw²; Stephen Taylor⁴; ¹University of Liverpool, Glenn Heights, TX; ²University of Nottingham, Nottingham, United Kingdom; ³Norton Priory, Runcorn, United Kingdom; ⁴Mass Spectometry Group, University of Liverpool, Liverpool, United Kingdom
- TP 025

 Palaeoproteomics on Paintings: Tandem Mass
 Spectrometry Unravels the History of Artistic Materials
 through Post-Translational Modifications; Fabiana
 Di Gianvincenzo¹; Meaghan Mackie¹.²; Patrick Rüther²;
 Diana Samodova²; David Peggie³; Jesper V. Olsen²;
 Enrico Cappellini¹; ¹Department of Biology, University of
 Copenhagen, Copenhagen, Denmark; ²NNF Center for
 Protein Research University of Copenhagen, Copenhagen,
 Denmark; ³National Gallery of London, London, United
 Kingdom
- TP 026 Identification of Animal Species by Mass Spectrometry of Collagen Extracted from Neolithic and Paleolithic Bones and Teeth; Takashi Nakazawa¹; Momoko Osawa¹; Kana Matsuo¹; Mako Inuzuka¹; Yuki Ito¹; Kazuki Kawahara²; Yuichi Naito³; Seiji Kadowaki³; Yoshihiro Nishiaki⁴; ¹Nara Women's University, Nara, Japan; ²Osaka University, Suita, Japan; ³Nagoya University, Nagoya, Japan; ⁴The University of Tokyo, Bunkyo, Japan
- TP 027 Species Identification of Materials Used in Cultural Heritage Objects from Alaska in the British Museum's Collection Using 'ZooMS' Methodology; Michael

 Douglas Nairn¹; Chris Mussell²; Amber Lincoln²; ¹Shimadzu, Manchester, UK, Manchester, United Kingdom; ²The British Museum, London, United Kingdom
- TP 028 GrandPep, a Novel Software for Computational Reconstruction of Ancient Protein Sequences; Petra Gutenbrunner¹; Frido Welker²; Jazmin Ramos Madrigal²; Enrico Cappellini²; Juergen Cox¹; ¹Max-Planck Institute of Biochemistry, Planegg, Germany; ²Department of Biology, University of Copenhagen, Copenhagen, Denmark
- TP 029 Effects of Preparation Methods, Environmental Factors, and Scientific Analysis on Aging of Historical Silk, Parchment, and Bone at Molecular Levels; Mehdi Moini; George Washington University, Washington, VA
- TP 030 Revealing the Past through Non-invasive Metabolomics and Proteomics; Elettra Barberis¹; Marcello Manfredi²; Pier Giorgio Righetti³; Gleb Zilberstein⁴; Bianucci Raffaella⁵; Emilio Marengo²; ¹University of Piemonte Orientale Department of Sciences and Technological Innovation, Alessandria, Italy; ²University of Piemonte Orientale, Alessandria, Italy; ³Politecnico di Milano, Dept. of Chemistry, Milano, Italy; ⁴Spectrophon Ltd., Rehovot, Israel; ⁵University of Turin, Torino, Italy
- TP 031 Microwave-Assisted Acid Hydrolysis for Whole Bone Proteomics and Paleoproteomics; Caitlin Colleary¹; Timothy P Cleland¹; ¹Smithsonian Museum Conservation Institute, Suitland, MD
- TP 032 Archival Proteins: Biomolecular Evidence of Parchment Production Methods; Carla L Soto Quintana¹; Sarah Fiddyment¹; Matthew J Collins².³; ¹University of York, York, United Kingdom; ²University of Copenhagen, Copenhagen, Denmark; ³University of Cambridge, Cambridge, United Kingdom
- TP 033 Robust Proteomics Workflow for the Identification and Classification of Paleontological Bones; Fabrice Bray¹; Stéphanie Flament¹; Patrick Auguste¹; Christian Rolando¹; ¹Université de Lille, Villeneuve d'Ascq, France
- TP 034 Digging Deeper into Ancient Proteomes Improved Sampling and Instrumentation Allow for an Unprecedented View of the Archaeological Protein Record; Patrick L. Ruether¹; Alberto J. Taurozzi²; Dorte B. Bekker-Jensen¹; Tanveer S. Batth¹; Tabiwang N. Arrey³; Alexander Harder³; Christian D. Kelstrup¹; Enrico Cappellini²; Jesper V. Olsen¹; ¹NNF Center for Protein

TUESDAY POSTERS



- TP 035 Multidisciplinary Approach to Understanding Preservation and Decomposition at Vindolanda, Roman Fort, UK; gillian Taylor¹; Hrafnhildur Helga Halldórsdóttir¹; Rhys Williams¹; Caroline Orr¹; Andrew Birley²; ¹Teesside University, Middlesbrough, United Kingdom; ²Vindolanda, Bardon Mill, United Kingdom
- TP 036 Adapting Historic Architecture and Engineering Documentation Protocols to the Virtual Preservation of Historically Important Analytical Instruments; Frances R. Gale¹; P. Jane Gale²; Michael A Grayson³; ¹University of Texas at Austin School of Architecture (ret), Austin, TX; ²ASMS Archivist/Historian, Southborough, MA; ³ASMS Archivist/Historian (ret), St. Louis, MO

BIOMARKERS: DISCOVERY I

- TP 037 Coccidioidomycosis Detection Using Targeted Plasma and Urine Metabolic Profiling; Paniz Jasbi¹; Natalie M. Mitchell²; Xiaojian Shi¹; Thomas E. Grys³; Yiping Wei¹; Li Liu²·⁴; Douglas F. Lake²; Haiwei Gu¹; ¹Arizona State University, Phoenix, AZ; ²Arizona State University, Tempe, AZ; ³Mayo Clinic, Phoenix, AZ; ⁴Mayo Clinic, Scottsdale, AZ
- TP 038 Quantitative Serum Proteomics Uncovers Biomarkers for the Prediction of Staphylococcus aureusbacteremia Patient Outcomes and Highlights Dysregulated Host Defense Networks; Jacob Wozniak¹; Warren Rose²; George Sakoulas¹; David J Gonzalez¹; ¹UCSD, San Diego, CA; ²University of Wisconsin, Madison, Madison, WI
- TP 039 Proteomic and Lipidomic Analysis Reveals Altered Fatty Acid Metabolism in the Liver of the Symptomatic Niemann-Pick, Type C1 Mouse Model; Melissa R Pergande¹; Jonathon Hanek¹; Estefanía Zárate¹; Sheher Banu Mohsin²; Carol Haney-Ball³; Stephanie M Cologna¹;

 1 University of Illinois at Chicago, Chicago, IL; Agilent Technologies, Wood Dale, IL; Agilent Technologies, Cary, NC.
- TP 040 **Epitope Structures of Aptamer Complexes of the Multi**domain Protein C-Met Revealed by Proteolytic Affinity-Mass Spectrometry; Michael Przybylski1; Loredana Lupu²; Pascal Wiegand²; Nico Hüttmann²; Stephan Rawer²; Wolfgang Kleinekofort^{2, 3}; Irina Shchugoreva⁴; Anna S. Kichkailo⁵; Felix N. Tomilin⁴; Alexander Lazarev⁶; Maxim V. Berezovski7; 1Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim, Germany; ²Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim, Germany; ³Rhein Main University, Rüsselsheim, Germany; 4Kirensky Institute of Physics, Russian Academy of Sciences, Krasnoyarsk, Russia; 5Krasnoyarsk State Medical University, Krasnoyarsk, Russia; 6Pressure Biosciences Inc., South Easton, MA; ⁷University of Ottawa, Dept. Chemistry, Ottawa, Quebec
- TP 041 Novel S-Nitrosylated Proteolytic Peptides Derived from Postsynaptic Proteins for Alzheimer's Disease; George Anis Sarkis¹; John S. Wishnok¹; Steven R Tannenbaum¹;

 ¹Massachusetts Institute of Technology, Cambridge, MA
- TP 042 High-Throughput Screening of Antimicrobial Resistance by MALDI-High Resolution Mass Spectrometry of Bacterial Cell Cultures; Evan Larson¹; Andrew Petersen¹; Bryan Bellaire¹; Young Jin Lee¹; *Iowa State University,
- TP 043 Targeted Metabolomics Profile Sow Milk Components by LC-MS/MS; Shen Allison¹; Qisheng Zhong²; ¹Shimadzu Global COE, Shimadzu (China) Co., Ltd., China, Guangzhou, China; ²Shimadzu Global COE, Shimadzu (China) Co., Ltd., China, Guangzhou, China

- TP 044 Colorectal Cancer Patient-Derived Serum Exosomes
 Promote Cancer Cell Migration; Hye Ryeon Jung¹;
 Yu-Ri Seo¹; Jeehee Park¹; Eugene C. Yi¹; ¹Department
 of Molecular Medicine and Biopharmaceutical Sciences,
 Graduate School of Convergence Science and Technology,
 Seoul National University, Seoul, South Korea
- TP 045 Identification of Novel Serum Protein Biomarkers for ALS Diagnosis and Progression; Szymon Filip¹; Tori Sosnowski¹; Halil Idrisoglu²; Hande Ozdinler³,⁴; Young Ah Goo¹; ¹Proteomics Center of Excellence, Northwestern University, Chicago, IL; ²Istanbul University, Istanbul, Turkey; ³Department of Neurology, Northwestern University, Feinberg School of Medicine, Chicago, IL; ⁴Les Turner ALS Center at Northwestern University, Chicago, IL
- TP 046 Identifying Peptide Signatures in Longitudinally Collected CSF Associated with Progression of ALS Using DIA Mass Spectrometry; Allyson L Mellinger¹; Jeffrey R. Enders²; Michael S. Bereman^{1, 3, 4}; ¹Department of Chemistry, North Carolina State University, Raleigh, NC; ²Molecular Education, Technology, and Research Innovation Center, Raleigh, NC; ³Center for Human Health and the Environment, North Carolina State University, Raleigh, NC; ⁴Department of Biological Sciences, North Carolina State University, Raleigh, NC
- TP 047 Lipid Biomarker Identification for Preterm Birth and Miscarriage via Deuterium Oxide Labeling for Global Omics Relative Quantification; Byoungsook Goh¹; Ji-Yeon Park²; Joo-Hee Choi²; Jong-Hwan Park²; Tae-Young Kim¹. ³; ¹Department of Chemistry, Gwangju Institute of Science and Technology, Gwangju, South Korea; ²Laboratory Animal Medicine, College of Veterinary Medicine and BK 21 PLUS Project Team, Chonnam National University, Gwangju, South Korea; ³School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, Gwangju, South Korea
- TP 048 An Integrated System for Sequential Isolation of Circulating Tumor Cells and Exosomes for Proteomic Analysis from the Same Blood Sample; Jie Zhang¹; Jianhui Zhu¹; Zhijing Tan¹; Mingrui An¹; Yingfeng Zhang¹; Neehar D. Parikh¹; David M. Lubman¹; ¹University of Michigan Medical Center, Ann Arbor, MI
- TP 049 Screening of Site-Specific Glycopeptides in Serum Haptoglobin as Novel Biomarkers for Non-Alcoholic Steatohepatitis Using EThcD-MS/MS; Jianhui Zhu¹; Jie Zhang¹; Zhengwei Chen²; Gabriela Grigorean³; Lingjun Li²; David M. Lubman¹; ¹University of Michigan Medical Center, Ann Arbor, MI; ²University of Wisconsin-Madison, Madison, WI; ³University of Michigan, Ann Arbor, MI
- TP 050 Systematic Proteomic Analysis of the interaction between UPR and LPS regulated Phosphorylation Establishes Novel Connections to Innate Immunity;

 Min Ma¹; Yatao Shi¹; Yusi Cui¹; Junfeng Huang¹; Yiping Liu¹; Judith A Smith¹; Lingjun Li¹; ¹University of Wiscision-madison, WI
- TP 051 Establishment of Q-markers of Niaoduqing Granule by High Resolution Mass Spectrum Analysis and Network Pharmacology Study; Yi-Sheng Xu¹; Yuanyuan Xie²;

 ¹waters cooperation, Shanghai, China; ²Tsinghua University, Beijing, China
- TP 052 Effects of Daily Vinegar Ingestion on Insulin Sensitivity, Visceral Fat, Body Weight and the Metabolome in Healthy Adults; Paniz Jasbi¹; Olivia Baker²; Xiaojian Shi¹; Lisa Gonzalez²; Summer Anderson²; Xinchen Wang¹; Haiwei Gu¹; Carol S. Johnston²; ¹Arizona State University, Scottsdale, AZ; ²Arizona State University, Phoenix, AZ
- TP 053 Lipidomics of Parkinson's Disease: Towards More Accurate Diagnosis Methods through Omics
 Technologies; Adriana Zardini Buzatto¹; Barinder Bajwa¹;
 Jaspaul Tatlay¹; Roger A Dixon¹; Richard Camicioli¹; Liang Li¹; ¹University of Alberta, Edmonton, AB



- TP 054 **Ovarian Cancer Detection Using Plasma Metabolic Profiling**; <u>Yiping Wei</u>¹; Paniz Jasbi¹; Xiaojian Shi¹; Haiwei Gu¹; ¹Arizona State University, Scottsdale, AZ
- TP 055

 Mapping and Sequencing of Gangliosides in Human
 Cerebellum at Different Developmental Stages by
 Orbitrap Multistage Mass Spectrometry; Raluca Ica¹;
 Mirela Sarbu¹; Alina Petrut¹; Cristian VA Munteanu²; Andrei
 J Petrescu²; Radu Albulescu³; Alina D. D Zamfir¹; ¹National
 Institute for Research and Development in Electrochemistry
 and Condensed Matter, Timisoara, Romania, Timisoara,
 Romania; ²Institute of Biochemistry of the Romanian
 Academy, Bucharest, Romania; ³National Institute for
 Chemical Pharmaceutical Research and Development,
 Bucharest, Romania
- TP 056 Lipidomics of Alzheimer's Disease and Cerebral Amyloid Angiopathy: Identification of Potential Biomarkers in Human Plasma by UHPLC-MS; Barinder Bajwa¹; Adriana Zardini Buzatto¹; Roger A Dixon¹; Richard Camicioli¹; Eric E Smith²; Liang Li¹; ¹University of Alberta, Edmonton, AB; ²University of Calgary, Calgary, AB
- TP 057 Tyrosine Aminoacyl-tRNA Synthetase Sensitize Breast Cancer to the Combined Chemotherapeutic Regimen;

 Ji hye Moon¹; Dohyun Han¹; Hyeyoon Kim¹; Han Suk Ryu¹;

 ¹Seoul National University Hospital, Seoul, South Korea
- TP 058

 Development and Technical Validation of a Data-Independent Acquisition Approach for Analysis of Human Alzheimer's Disease Cerebrospinal Fluid;

 Shannon N. Leslie¹; Rashaun S. Wilson²; Pia W. Kivisakk³; Savannah E. Kandigian³; Bianca A. Trombetta³; Becky C. Carlyle³; Steven E. Arnold³; Angus C. Nairn¹; ¹Yale University, New Haven; ²Yale University Keck MS & Proteomics Core, New Haven, CT; ³Massachusetts General Hospital, Boston, Massachusetts
- TP 059 Scalable and Automated Plasma Workflow Based on the Thermo Scientific Q Exactive HF-X MS platform;

 Jing Wang¹; Sarah Trusiak¹; Ryan D. Bomgarden²; Sergei Snovida³; Emily I. Chen¹; ¹Thermofisher Scientific Precision Medicine Science Center, Cambridge, MA; ²ThermoFisher Scientific, Rockford, IL; ³Thermo Fisher Scientific, Rockford, IL
- TP 060 Proteomic Characterization of the Warburg Effects in Clear Cell Renal Cell Carcinoma; Yuling Chen¹; Yang Lv²; Songfeng Wu³; Jiatong Xu¹; Di Wu²; Haiteng Deng¹; ¹Tsinghua University, Beijing, China; ²Center of Nephrology, the General Hospital of the PLA, Beijing, China; ³Academy of Military Medical SciencesCountermeasures, Beijing, China
- TP 061 Development of an LC-MRM-MS assay for Analysis of Prostate-Specific Antigen Including its Major Glyco-Proteoforms; Yuri E.M. van der Burgt¹; Kasper Siliakus¹; Guinevere S.M. Lageveen-Kammeijer¹; Manfred Wuhrer¹; L. Renee Ruhaak¹; Christa M. Cobbaert¹; ¹Leiden University Medical Center, Leiden, Netherlands
- TP 062 A Highly Sensitive FFPE Tissue Workflow by Coupling the Micro Pillar Array Column (µPACTM) with High Resolution Mass Spectrometry; Antonius Koller¹; Sarah Trusiak²; Xinyu Zhang²; Alexander R Ivanov¹; Emily I. Chen²; ¹Northeastern University, Boston, MA; ²Thermo Fisher Precision Medicine Science Center, Cambridge, MA,
- TP 063 A Quantitative Proteomics Platform for Identifying Potential Biomarkers for Controlling Krypton Misuse in Horseracing; Kin-Sing Wong¹; Hiu Wing Cheung¹; Timmy L.S. Choi¹; Wai Him Kwok¹; Terence S.M. Wan¹; Jenny K.Y. Wong¹; Peter Curl²; Stewart C. Mechie²; Anil Prabhu²; Emmie N.M. Ho¹; ¹Racing Laboratory, The Hong Kong Jockey Club, Hong Kong, Hong Kong; ²Department of Veterinary Regulation & Biosecurity Policy, The Hong Kong Jockey Club, Hong Kong, Hong Kong

- TP 064 Mass Spectrometric Analysis of Sebum Contents for Classification of Parkinson's Disease; Drupad Trivedi¹; Eleanor Sinclair¹; Depanjan Sarkar¹; Joy Milne¹; Monty Silverdale¹; Tilo Kunath²; Roy Goodacre³; Perdita Barran¹; ¹University of Manchester, Manchester, United Kingdom; ²University of Edinburgh, Edinburgh, United Kingdom; ³University of Liverpool, Liverpool, United Kingdom
- TP 065 Proteomics Comparative Study of Exosome Subpopulations; Yingfeng Zhang¹; Jianhui Zhu²; Zhijing Tan²; David M. Lubman³; ¹University of Michigan, ANN ARBOR, MI; ²University of Michigan, Ann Arbor, Michigan; ³University of Michigan, Ann Arbor, MI
- TP 066 Protein Identification the Translational Research Study of HBx Genes Related to Hepatocellular Carcinoma;

 Ming-Hui Yang¹; Yi-Ming Arthur Chen²; Yi-Chia Lee³;

 Yu-Chang Tyan³; ¹National Health Research Institutes,

 Zhunan, Taiwan; ²Taipei Medical University, Taipei, Taiwan;

 ³Kaohsiung Medical University, Kaohsiung, Taiwan
- TP 067 Use of untargeted metabolomics approach using label free LC-DIA-MS method to identify putative biomarkers involved in spontaneous pre-term birth (sp-PTB); Shirish Yakkundi¹; James Langridge²; Lee A Gethings²; ¹INFANT Centre, University College Cork, Cork, Ireland; ²Waters Corporation, Wilmslow, United Kingdom
- TP 068 Development of a Simple and Robust LC-MS/MS Method for the Quantification of the Renal Failure Biomarker Symmetric Dimethyl Arginine (SDMA); Brittany J. Perley¹; Alyssa Kabat¹; Jem Sibbick¹; Rachel Van Heest¹; Sean Maki¹; Katherine Henry¹; Steven Wiltshire¹; Allysen Meymaris¹; ¹Charles River Laboratories, Worcester, MA

BIOMARKERS: QUANTITATIVE ANALYSIS II 069-099

- TP 069 Evaluation on LC-MS/MS Assay Using Anti-Peptide Immunocapture to Quantify PD-L1 As a Clinical Biomarker in FFPE Tissues for Immuno-Therapy Development; Naiyu Zheng¹; Kristin Taylor¹; Huidong Gu¹; Rasa Santockyte¹; Xi-Tao Wang¹; Yan J. Zhang¹; Renuka Pillutla¹; Jianing Zeng¹; ¹Bristol-Myers Squibb Company, Princeton. NJ
- TP 070 Multiple Reaction Monitoring (MRM) and Parallel Reaction Monitoring (PRM) to Identify Biomarkers Predictive of Clinical Response to Tocilizumab (anti-IL-6) Treatment; Jin woo Jung¹; Byoung-Kyu Cho¹; Kang Hyun Kim¹; Yeong Wook Song¹.²; Eugene C. Yi¹; ¹Department of Molecular Medicine and Biopharmaceutical Sciences, Graduate School of Convergence Science and Technology, Seoul National University, Seoul, South Korea; ²Division of Rheumatology, Department of Internal Medicine, College of Medicine, Seoul National University, Seoul, South Korea
- TP 071 Simultaneous Quantitation of Epinephrine and Norepinephrine as Cardiovascular Biomarkers in Rodent Species Plasma Utilizing a Non-Derivatized UHPLC-MS/MS Assay; Craig Titsch¹; Enzo Kandoussi¹; Jianing Zeng¹; Glen Banks²; Gayani Fernando²; Yan J. Zhang¹; Renuka Pillutla¹; Naiyu Zheng¹; ¹Bristol-Myers Squibb Co., Lawrenceville, NJ; ²Bristol-Myers Squibb Co., Hopewell, NJ
- TP 072 In-Sample Calibration Curve Using Multiple Isotopologue Reaction Monitoring of a SIL-Analyte for Instant LC-MS/MS Analysis of Biomarker and Quantitative Proteomics; Huidong Gu¹; Yue Zhao¹; Marissa DeMichele¹; Naiyu Zheng¹; Yan J. Zhang¹; Renuka Pillutla¹; Jianing Zeng¹; 'Bristol-Myers Squibb, Princeton, NJ
- TP 073 Quantification of Soluble MERTK in Serum Using Affinity Enrichment-Liquid Chromatography Mass Spectrometry; Yongxin Zhu¹; Petia Shipkova²; Thomas Spires²; Karen Augustine²; Timothy Olah²; ¹Bristol-Myers



- Squibb Company, Princeton, NJ; ²Bristol-Myers Squibb Co., Princeton. NJ
- TP 074 Optimized high-throughput proteomic sample preparation in 96-well plate format for identifying serum Biomarkers of alpha-Dystroglycanopathy; Mahmud Hossain¹; Monica Lane¹; Hongge Wang¹; Jun Luo¹; Bailin Zhang¹; 'Sanofi Genzyme, Framingham, MA
- TP 075

 Urinary Mercapturic Acids of Volatile Organic
 Compounds and Oxidative/Nitrosative Stress Markers
 in Workers of the Semiconductor Industry; Hsin-Chang
 Chen¹; Chen-Hsien Lee²; Kai-Chieh Yang¹; Wei-Lun Su¹;
 Tzu-Sheng Fang¹; Yi-Chen Sun¹; ¹Institute of Food Safety
 and Health, National Taiwan University, Taipei, Taiwan;
 ¹Institute of Labor, Occupational Safety and Health, Ministry
 of Labor, New Taipei City, Taiwan
- TP 076 Multiplexed Detection of Biomolecules with High Sensitivity and Specificity Using Surface Mass Spectrometry; Hee-Kyung Na^{1, 2}; Hyun Kyong Shon¹; Sunho Joh^{1, 3}; Jeong-Hee Moon⁴; Hye Young Son⁵; Yong-Min Huh⁵; Tae Geol Lee¹; ¹KRISS, Daejeon, South Korea; ²Seoul national university, Seoul, South Korea; ³Department of Nano Science, University of Science and Technology, Daejeon, South Korea; ⁴KRIBB, Daejeon, South Korea; ⁵Department of Radiology, College of Medicine, Yonsei University, Seoul, South Korea
- TP 077 Resolution and Quantitative Analysis of Human Urinary Isomeric Mercapturic Acids Derived from Crotonaldehyde, 2-Methylacrolein, and Methylvinyl Ketone; Menglan Chen¹; Steven Carmella²; Stephen S Hecht²; Masonic Cancer Center, U of MN, Minneapolis; University of Minnesota, Minneapolis, MN
- TP 078 Development of an Automated Sample Preparation Platform for cPILOT; Albert Arul¹; Renã A.S. Robinson¹;

 'Vanderbilt University, Nashville, TN
- TP 079 Effect of Maternal Urinary and Placenta Melamine Levels during Pregnancy on Neonatal Birth Weight by Isotope Dilution LC-MS/MS; Sih-Syuan Li¹; Chung-Yi Huang¹; Yung-Hung Chen²; Chia-Fang Wu¹; ¹Research Center for Environmental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan; ²Department of Gynecology and Obstetrics, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- TP 080 Measurement of Cyclooxygenase Inhibition and Selectivity in Human Whole Blood Assay Using LC-MS/ MS; Yifan Shi¹; Heather Murrey¹; Kay Ahn¹; Naidong Weng¹; Shefali Patel¹; ¹Janssen, Spring House, PA
- Highly Sensitive Immuno-MRM Assay for Quantitation TP 081 of PTEN in Both FFPE and Fresh Frozen Tissue; Sahar <u>Ibrahim¹</u>; Rene Zahedi²; Naciba Benlimame³; Adriana Aguilar⁴; Mark Basik^{5, 6}; Gerald Batist^{6, 7, 8, 9, 10}; Christoph H. Borchers^{2, 11, 12, 13}; ¹Department of Experimental Medicine, McGill University, Montreal, Québec; 2Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; 3Research Pathology Facility, Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, QC: 4Cancer Genomics and Translational Research Laboratory, Segal Cancer centre, Lady Davis Institute, McGill university, Montreal, QC; 5Department of Medicine, Division of Experimental Medicine, McGill University, Montreal, QC; ⁶Department of Oncology, McGill University, Montreal, QC; ⁷Departments of Medicine and Oncology, McGill University, Montreal, QC; 8Dept. of Oncology, Sir Mortimer B. Davis-Jewish General Hospital, Montreal, QC; 9Segal Cancer Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, Montreal, QC; 10McGill Centre for Translational Research in Cancer, Segal Cancer Centre / Lady Davis Institute, Jewish General Hospital, Montreal, QC; 11 University of Victoria-Genome BC Proteomics Centre, Victoria, BC; 12Department of

Victoria, BC; ¹³Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC TP 082 Rapid Profiling and Quantification of 17 Bile Acids in Human Plasma by LC-MS/MS; Dan Li¹; Frances Carroll¹; Shun-Hsin Liang¹; Ravali Alagandula¹; Justin Steimling¹; Sue Steinike¹; Paul Connolly¹; ¹Restek, Bellefonte, PA

Biochemistry and Microbiology, University of Victoria,

- TP 083 Immunoaffinity LCMS Assay for Measuring Soluble B-Cell Maturation Antigenin Multiple Myeloma Patients; Ying Zhang¹; John K Meissen¹; Kyle Wald¹; Angela Stauffer²; Michael Hall²; Matthew Blatnik¹; ¹Pfizer Inc., Groton, CT; ²Pfizer WRD, La Jolla, CA
- TP 084 Development of LC-MS/MS Assays to Measure Thyroid Hormones in Rat Serum; Hua Wang¹; Seth R Bell¹; Junhong Guo¹; Jeroen Kooistra¹; Pragati S Coder¹; Liam B Moran¹; Elizabeth A Groeber¹; ¹Charles River Laboratories, Ashland. OH
- TP 085 Quantification of EDB+FN Levels in PDX Tumor and PDX FFPE Samples Using LC-MS/MS Methods; Fengping Li¹; Bing Kuang²; Andrea Hooper³; Jonathon Golas³; Chao-Pei Betty Chang³; Mauricio Leal³; Hendrik Neubert¹; Lindsay King¹; ¹Pfizer, Andover, MA; ²Pfizer WRD, La Jolla, California; ³Pfizer WRD, Pearl River, New York
- TP 086 Determining Isocyanate Exposure in Human Urine by LC-MRM; Maggy Lepine^{1, 2}; Lekha Sleno¹; Jacques Lesage¹; Sebastien Gagne²; ¹UQAM, Montreal, QC; ²IRSST, Montreal, QC
- TP 087 Multiplexed Quantitative Glycoproteomic and Proteomic Analyses of Cerebrospinal Fluid in Alzheimer's Disease; Xiaofang Zhong¹; Zhengwei Chen¹; Qinying Yu¹; Henrik Zetterberg²; Cynthia Carlsson¹; Ozioma Okonkwo¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, Wl; ²University of Gothenburg, Gothenburg, Sweden
- TP 088 Quantification of Jag1 Protein in Agarose Inflated Lung Airway Samples by Immuno Affininty Enrichment and LC-MS/MS analysis; Omar S. Barnaby¹; Joon Nam²; Deanna Mohn¹; Brian Bennet²; Jonathan Phillips²; Christopher A. James¹; ¹Amgen, Inc., Thousand Oaks, CA; ²Amgen, Inc., Thousand Oaks, CA
- TP 089 LC-MS/MSAnalysis of Arachidonic Acid as a Biomarker in Human Plasma for Clinical Studies; <u>Tian-Sheng Lu</u>¹; Elise Snider¹; Nicole Greer¹; Joshua Froning¹; Yong-Xi Li¹;

 Medpace Bioanalytical Laboratories, Cincinnati, OH
- TP 090 Developing Protein Biomarker MRM Methods as an Alternative Indicator of Prohibited Substance Abuse in Equine Athletes; Sophie Bromilow¹; Heather Knych¹; Ben Moeller¹; Rick Arthur¹; Claudia P.B. Martins²; David Horohov³; Scott Stanley³; ¹K.L. Maddy Equine Analytical Chemistry Laboratory, Davis, CA; ²ThermoFisher, San Jose, CA; ³Gluck Equine Research Centre, Lexington, KY
- TP 091 Metabolic Reprogramming in Prostate Cancer Cell Lines in Response to Tyrosine Kinase Inhibition; Robert Sprung¹; Surbhi Chouhan¹; Petra Erdmann-Gilmore¹; Qiang Zhang¹; Rose Connors¹; Yiling Mi¹; Nupam Mahajan¹; Reid Townsend¹; ¹Washington University, School of Medicine, St. Louis, MO
- TP 092 Quantitative Measurement of 7-Ketocholesterol and Cholestane-3β,5α,6β-triol as Biomarkers in Human Serum Using LC-MS/MS; Aiping Zhu¹; Idana Santiago¹; Yu Zhang¹; Yong-Xi Li¹; ¹Medpace Bioanalytical Laboratories, Cincinnati. OH
- TP 093 Dried Blood Spots from Frozen Whole Blood Provide an Option to Analyze Parkinson's Disease Cohorts for Activity of Lysosomal Enzymes; Pavlina Wolf¹; Roy Alcalay²; Karolina Helesicova¹; Ruby Chiang¹; Emma-Jane Turton¹; Michael Pauciulo³; William Nichols³; Wendy Chung⁴; Pablo Sardi¹; Kate Zhang¹; Petra Oliva¹; ¹Sanofi, Framingham, MA; ²Columbia University Medical Center, Neurological Institute, New York, NY; ³Division of Human Genetics, Cincinnati Children's Hospital Medical Center



- and the Department of Pediatrics, University of Cincinnati College of Medicine, Cincinnati, OH: ⁴Department of Pediatrics and Medicine, Columbia University Medical Center, New York, NY
- TP 094 LC-MS/MS Assay for Non-Invasive Detection of Prostaglandins and Leukotrienes in Urine; Xiongfei Wu¹; Hanjiao Song¹; Weiqun Cao¹; Lili Xing¹; Xin Zhang¹; Yi Tao¹; ¹WuXi AppTec. Shanghai. China
- TP 095

 Multiplexed Quantification of Sepsis Prognosis
 Candidate Biomarkers Spanning a Wide Dynamic Range
 of Plasma Concentrations (ng/ml to mg/ml); Christelle
 Dubois¹; Didier Payen²; Stéphanie Simon¹; François
 Fenaille¹; Christophe Junot¹; Nathalie Morel¹; Francois
 Becher¹; ¹CEA Saclay, DRF, Institut Joliot, Service de
 Pharmacologie et d'Immunoanalyse- CEA-INRA UMR 0496,
 Laboratoire d'Etude du Métabolisme des Médicaments,
 Gif-sur-Yvette, France; ²Department of Anesthesiology and
 Critical Care, Lariboisière Hospital, University of Paris Denis
 Diderot 7, Paris, France
- TP 096 **Metaproteomics of the Human Intestinal Microbiota** in Physiological and Pathological Conditions; celine Henry¹; Ariane Bassignani^{2, 3}; Olivier Langella⁴; Véronique Monnet²; Catherine Juste²; the ProteoCardis Consortium¹, ^{2, 4, 5, 6, 7}; ¹PAPPSO, Micalis Institute, INRA, AgroParisTech, Université Paris-Saclay, Jouy en Josas, France; 2Micalis Institute, INRA, AgroParisTech, Université Paris-Saclay, Jouy en Josas, France; 3US1367 MetaGenoPolis, INRA, Jouy en Josas, France; ⁴PAPPSO, GQE Le Moulon, INRA, Univ. Paris-Sud, CNRS, AgroParisTech, Universite Paris-Saclay, Gif Sur Yvette, France; 5 Institut National de la Recherche Agronomique, MalAGE, INRA, Université, Paris-Saclay, Jouy en Josas, France; 6Institute of Cardiometabolism and Nutrition, ICAN, Assistance Publique Hôpitaux de Paris and Inserm/Sorbonne University team NutriOmics,, Pitié-Salpêtrière Hospital,, Paris, France; ⁷Laboratoire de Spectrométrie de Masse BioOrganique, Université de Strasbourg, CNRS, IPHC, UMR 7178, Strasbourg, France
- TP 097

 Liquid-Chromatography coupled to Tandem Mass Spectrometry for 28 Bile Acids Profiling in Serum or Liver Samples; Yoshihiro Izumi¹; Mikael Levi²; Jun Watanabe²; Takeshi Bamba¹; ¹National University Corporation Kyushu University, Research Center for Transomics Medecine, Fukuoka, Japan; ²Shimadzu Corporation, Kyoto, Japan
- TP 098 Characterization of Patient-Derived Colorectal Cancer Cells Using the Proteome and Phosphoproteome Information; Ryohei Narumi¹; Keiko Kasahara¹; Bo Gong²; Yuki Shimizu²; Ryohei Katayama²; Satoshi Nagayama²; Jun Adachi¹; Takeshi Tomonaga¹; ¹NIBIOHN, Ibaraki-city, Japan; ²JFCR, Koto-ku, Japan
- TP 099 **Plasma Proteome Profiling Discovers Novel Proteins** Associated with Non-Alcoholic Fatty Liver Disease: Lili Niu^{1, 2}; Rajat Gupta¹; Philipp E. Geyer^{1, 2}; Nicolai J. Wewer Albrechtsen^{1, 2}; Lise L. Gluud³; Alberto Santos¹; Sophia Doll^{1, 2}; Jens J. Holst³; Filip K. Knop³; Tina Vilsbøll³; Anders Junker³; Stephan Sachs⁴; Kerstin Stemmer⁴; Timo D. Müller4; Matthias H. Tschöp4; Susanna M. Hofmann5; Matthias Mann^{1, 2}; ¹The Novo Nordisk Foundation center for Protein Research, Copenhagen, Denmark; 2Max Planck Institute of Biochemistry, Martinsried, Germany; 3Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark: 4Helmholtz Diabetes Center at Helmholtz Centre Munich & Division of Metabolic Diseases, munich, Germany; 5Helmholtz Diabetes Center at Helmholtz Zentrum München, Munich, Germany

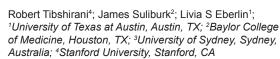
CLINICAL ANALYSIS II 100-123

- TP 100 A LC-MS Method for the Measurement of about 250 Compounds of Interest in Toxicology with a Fully-Automated Sample Preparation; Tiphaine Robin¹; Alan Barnes²; Neil Loftus²; Sylvain Dulaurent¹; Pierre Marquet¹; Souleiman El Balkhi¹; Franck Saint-Marcoux¹;

 ¹CHU Limoges, Limoges, France; ²Shimadzu Corporation, Manchester, United Kingdom
- TP 101 Clinical Diagnosis of Congenital Disorders of Glycosylation (CDGs) by Flow Injection Analysis Electrospray Ionization Time-of-Flight Mass Spectrometry (FIA-ESI-TOF-MS); Caroline M. Watson¹; Patricia L. Hall¹; S. Caleb Jerris¹; ¹EGL Genetics, Tucker, GA
- TP 102 Transition Ratios for the Product-Ion-Poor: Activation Energy Modulation in the Absence of Distinct Neutral Losses; Brian Rappold; LabCorp, Raleigh, NC
- TP 103 Induced In-Source Fragmentation for the Quantitation of Inulin by ESI-MS/MS to Assess Renal Function;
 Oscar Ekpenyong¹; Ken Lin¹; Lufei Hu¹; Maribel Beaumont¹;

 **Merck & Co., Inc., South San Francisco, CA
- TP 104 Clinical Diagnostics of Lysosomal Storage Diseases in DBS Using New Substrates by MRM-MS; Brindusa Alina Petre^{1, 2, 3}; Laura Ion^{1, 2}; Cristina Dimitriu⁴; Stefan Maeser²; Wolfgang Kleinekofort²; Cosmin Bulei¹; Michael Przybylski²; ¹Al. I. Cuza University of Iasi, Iasi, Romania; ²Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim, Germany; ³TRANSCEND Regional Institute of Oncology, Iasi, Romania; ⁴Grigore T. Popa University of Medicine and Pharmacy, Department of Biochemistry, Iasi, Romania
- TP 105 A UHPLC-MS/MS Method for the Separation and Low-Level Determination of Catecholamines and Metanephrines in Urine Using a Novel C18-Based Column; Geoffrey Faden¹; Alan P Mckeown²;

 ¹MACMOD Analytical Inc., Chadds Ford, PA; ²Advanced Chromatography Technologies Ltd, Aberdeen, United Kingdom
- TP 106 Irradiative Sterilization Effects on Clinical Specimens
 Prior to Mass Spectrometric Analyses; Samantha L
 Isenberg¹; Melissa D Carter²; Jonathan L Moon²; Sarah
 Laughlin²; Marla Petway²; Mike A Mojica²; Cody I Sheppard²;
 Alexis K Gursky²; Dennis A Bagarozzi Jr. ²; James L Pirkle²;
 Rudolph C. Johnson²; ¹Centers for Disease Control and
 Prevention, Atlanta, GA; ²Centers for Disease Control and
 Prevention, Atlanta, Georgia
- TP 107 Analysis of Drugs in Whole Blood by PaperSpray-FAIMS-MS/MS; Rae Ana Snyder¹; Cornelia Boeser¹; Neloni Wijeratne¹; Mary L. Blackburn¹; ¹Thermo Fisher Scientific, San Jose, CA
- TP 108 Rapid, Direct and Quantitative Urine Analysis for Common and Emerging Drugs of Abuse by Paper Spray Mass Spectrometry (PS-MS); Scott A. Borden^{1, 2}; Jan Palaty³; Erik T. Krogh^{1, 2}; Christopher G. Gill¹, 2, 4, 5; ¹Appl. Env. Res. Labs. (AERL), Vancouver Island University, Chemistry Department, Nanaimo, BC; ²University of Victoria, Chemistry Department, Victoria, BC; ³Lifelabs Medical Laboratories, Burnaby, BC; ⁴Simon Fraser University, Chemistry Department, Burnaby, BC; ⁵University of Washington, DEOHS. Seattle. WA
- TP 109 Evaluation and Quantitation of Nineteen Bile Acids in Human Plasma by LC-MS Analyses; Hongyi Cai¹; Peter J. Walter¹; Mayte Gonzalez¹.²; ¹NIH, Bethesda, MD; ²Schreiner University, Kerrville, TX
- TP 110 Desorption Electrospray Ionization Mass Spectrometry as a Tool for Diagnosis of Thyroid Nodules from Fine Needle Aspiration Biopsies; Rachel J DeHoog¹; Jialing Zhang¹; Elizabeth Alore²; John Lin¹; Spencer Woody¹; Wendong Yu²; Christopher Almendariz¹; Monica Lin¹; Christopher Pirko²; Anton F Engelsman³; Stan B Sidhu³;



- TP 111 High Throughput Analysis of Serum for PFAS
 Compounds by Reversed Phase High Performance
 Liquid Chromatography Tandem Mass Spectrometry;
 Jessica M. Morrison¹; Michael C. Stagliano¹; Timothy A.
 Karrer¹; Matthew J. Geiger¹; ¹MI Dept of Health & Human
 Services, Lansing, MI
- TP 112 Molecular Detection of Pancreatic Ductal
 Adenocarcinoma in Pancreatic and Bile Duct Tissues
 Using the MasSpec Pen; Mary King¹; Jialing Zhang¹;
 John Q. Lin¹; Sadhna Dhingra²; Wendong Yu²; George van
 Buren²; William E. Fisher³; James Suliburk³; Livia S Eberlin¹;
 ¹University of Texas at Austin, Department of Chemistry,
 Austin, TX; ²Department of Pathology and Immunology,
 Baylor College of Medicine, Houston, TX; ³Department of
 Surgery, Baylor College of Medicine, Houston, TX
- TP 113 Application of Mass-Spectrometry for Thalassemia Screening; Weining Zhao¹; Rong Wang¹; Liang lin¹; ¹BGl-Shenzhen, Beishan Industrial Zone 11th Building, Yantian District, Shenzhen City, China
- TP 114 Library Build and Patient Assays from 4- & 15-micron Kidney Biopsies; Wouter Knol¹; Petra Jansen¹; Jesper Kers^{1,2}; Garry Corthals¹; ¹University of Amsterdam, Amsterdam, Netherlands; ²Amsterdam UMC, Amsterdam, Netherlands
- TP 115 Revealing Proteomic Subgroups with Clinical Classification and Prognostic Prediction in Pancreatic Ductal Adenocarcinoma Using MRM-MS; Minsoo Son¹; Yoseop Kim¹; Jinyoung Jang²; Youngsoo Kim¹; ¹Department of Biomedical Engineering, Seoul National University College of Medicine, Jongro-gu, South Korea; ²Department of surgery, Seoul National University College of Medicine, Jongro-gu, South Korea
- TP 116 Liberate, Equilibrate and Automate;
 Immunosuppressant Analysis in Whole Blood; Stacy
 Dee¹; Julia Hannon¹; Matthew Crawford¹; Russell Grant¹;

 ¹LabCorp, Burlington, NC
- TP 117 An integrated Pipeline from SWATH Acquisition to MRMHR Workflow Facilitates Identification and Verification of Prostate Diagnostic Markers; Rui Sun¹; Christie Hunter²; Chen Chen³; Xue Cai¹; Qiushi Zhang¹; Bo Wang⁴; Xiaoyan Yu⁵; Huanhuan Gao¹; Xiaodong Teng⁴; Lirong Chen⁵; Ruedi Aebersold⁶; Yi Zhu¹; Tiannan Guo¹; ¹School of Life Sciences, Westlake University, Hangzhou, China; ²Sciex, Redwood City, CA; ³Sciex, Shanghai, China; ⁴Department of Pathology, The First Affiliated Hospital of College of Medicine, Zhejiang University, Hangzhou, China; ⁵Department of Pathology, The Second Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China; ⁵Department of Biology, Institute of Molecular Systems Biology, ETH Zurich, Switzerland, Switzerland
- TP 118 Bioanalytical Method for Quantification of Polymyxin B1, Polymyxin B2, Polymyxin B3 and Isoleucine-Polymyxin B1 in Human Plasma; Peiling Hou¹; Shu Qing Chan*²; Jie Xing³; ¹Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd., 79 Science Park Drive #02-01/08, Singapore; ²School of Chemical and Life Sciences, Singapore Polytechnic, 500 Dover Road, Singapore; ³Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd, 79 Science Park Drive #02-01/08, Singapore
- TP 119 Quantitation of Insulin-Like Growth Factor-1 in Serum by MRM-LC-MS/MS; Yihan Li¹; Ji Jiang¹; Lei Xiong¹; Xiang He¹; ¹SCIEX, Redwood Shores, CA
- TP 120 A New Approach without Renal Biopsy for Ankylosing Spondylitis with IgA Nephropathy Diagnosis by Glycan Analysis; Hui-Ling Chiang^{1, 2}; Pai-Chi Syue¹; Ching-Yi Lien¹;

- Ning-Sheng Lai²; Kuo-Lung Ku¹; ¹National Chiayi University, Chiayi City, Taiwan; ²Dalin Buddhist Tzu Chi Hospital, Dalin Town, Taiwan
- TP 121 Measurement of Free Drug Concentration from Biological Tissue by Solid-phase Microextraction: In-Silico and Experimental Study; Mohammad Maududul Huq¹; Marcos Tascon²; Emir Nazdrajić¹; Anna Roszkowska³; Janusz Pawliszyn¹; ¹University of Waterloo, Waterloo, ON; ²Instituto de Investigación e Ingeniería Ambiental (3iA), Universidad Nacional de San Martín (UNSAM), Buenos Aires, Argentina; ³Department of Pharmaceutical Chemistry, Medical Uni-versity of Gdańsk, Gdańsk, Poland
- TP 122 Identification of Circulating Fragments of Human Pancreatic Polypeptide Following Antibody Capture and Liquid Chromatography High Resolution Accurate Mass-Tandem Mass Spectrometry; Anthony Maus¹; Robert Taylor¹; Ravinder Singh¹; Stefan Grebe¹; ¹Mayo Clinic, Rochester, MN
- TP 123 High-Sensitivity Analysis of Aldosterone in Low-Volume Serum Samples Using Micro-Flow LC-MS/MS for Clinical Research; Mikael Levi¹; Jun Watanabe²; ¹SHIMADZU Corporation, Kyoto, Japan; ²Shimadzu Corpration, Kyoto, Japan

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- TP 124 Immunopeptide Characterization Enhanced with Positive and Negative Mode 193 nm UVPD; Eleanor C Watts¹; Melanie J Patterson²; Gregory K Potts²; Alayna George Thompson²; Damien B Ready²; Jennifer S Brodbelt¹;

 ¹University of Texas at Austin, Austin, TX; ²AbbVie Inc., North Chicago, IL
- TP 125 Analysis of Ischemic Brain Proteome in Mice in Identifying Clusterin as a Serum Biomarker for Severity of Acute Ischemic Stroke; Zezong Gu¹; Hailong Song¹; Chenghan Wu²; Jiankun Cui¹; ¹University of Missouri School of Medicine Patholog, Columbia, MO; ²The Second Affiliated Clinical College, Fujian University of Traditional Chinese Medicine, Fuzhou, China
- TP 126 Urine from the Patients with Vesicoureteral Reflux
 Reveals Changes in Host and Bacterial Metabolism after
 Urinary Tract Infection; Dijana Vitko¹; Kohei Hasegawa²;
 Joseph W. McQuaid³; Kylie H. Davis¹; Maggie R. Leary¹;
 Shannon E. DiMartino¹; Jonathan M. Mansbach¹; Richard S.
 Lee¹; ¹Boston Children's Hospital, Boston; ²Massachusetts
 General Hospital, Boston, Massachusetts; ³University of
 Massachusetts Medical School, Worcester, MA
- TP 127 Ganglioside Biomarker Discovery and Characterization in Neuro Developmental Diseases by High Resolution Multistage Mass Spectrometry; Mirela Sarbu¹; Raluca Ica¹; Cristian VA Munteanu²; Alina Petrut¹; Alina D Zamfir¹; ¹National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania; ²Institute of Biochemistry of the Romanian Academy, Bucharest, Romania
- TP 128 Novel Stationary Phase Aids in the Fight Against Cardiovascular Disease; Robert Puryear; Imtakt USA, Portland, OR
- TP 129 Identification, Validation, and Quantitation of a Clinically Relevant PSA Variant in Post-DRE Urines by Targeted Mass Spectrometry; Joseph J. Otto¹; Vanessa L. Correll¹; Hampus Engstroem¹; Brian P. Main¹; Brandi Weaver²; Teresa Johnson-Pais²; Li Fang Yang¹.³; Paul C. Boutros⁴; Thomas Kislinger⁵; Robin J. Leach².⁵; O. John Semmes¹.³; Julius O. Nyalwidhe¹.³; ¹Leroy T. Canoles Jr. Cancer Research Center, Eastern Virginia Medical School, Norfolk, VA; ²Department of Urology, The University of Texas Health San Antonio, San Antonio, TX; ³Department of Microbiology and Molecular Cell Biology, Eastern Virginia Medical School, Norfolk, VA; ⁴University of California Los Angeles,



- Los Angeles, CA; ⁵University of Toronto, Toronto, ON; ⁶Department of Cell Systems and Anatomy, The University of Texas Health San Antonio, San Antonio, TX
- TP 130 Proteomic Insights into the Molecular Mechanisms of Breast Cancer Metastasis; Shreya Ahuja¹; Iulia M. Lazar¹; ¹Virginia Tech, Blacksburg, VA
- TP 131 Proteomic Analysis of the HBP-Induced TIFA Interactome; Tong-You Wade Wei¹; Chi-Chi Chou¹; Wan-Jyun Lin¹; Pei-Yu Wu¹; Ming-Daw Tsai¹; ¹Academia Sinica, Taipei, Taiwan
- TP 132 Analysis of Metabolome and Lipidome Reveals the Metabolic Changes in Hypothermia Treatment of Cardiac Arrest Patients; Daniel Contaifer Jr. ¹;
 Naren Gajenthra Kumar²; Joshua Morriss¹; Dayanjan S Wijesinghe¹; ¹Department of Pharmacotherapy and Outcomes Sciences, Virginia Commonwealth University, Richmond, VA; ²Department of Microbiology and Immunology, Virginia Commonwealth University, Richmond, VA
- TP 133 Investigation of AD and MCI Associated Changes in Blood Plasma Proteome by High Resolution Mass Spectrometry; Natalia V. Zakharova^{1, 2}; Anna Bugrova¹; Maria Indeykina^{1, 2}; Alexander Brzhozovskiy^{3, 4}; Yana B. Fedorova⁵; Svetlana I. Gavrilova⁵; Igor Popov²; Alexey Kononikhin^{2, 3}; Eugene (evgeny) Nikolaev⁴; ¹Emanuel Institute for Biochemical Physics, Russian Academy of Sciences, Moscow, Russia; ²Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; ³V.L. Talrose Institute for Energy Problems of Chemical Physics, Russian Academy of Sciences, Moscow, Russia; ⁴Skolkovo institute of science and technology, Moscow Region, Russian Federation; ⁵Mental Health Research Center, Russian Academy of Science, Moscow, Russia
- TP 134 Detection of Anthrax Toxins in Terminal Organ Tissues by Mass Spectrometry; Maribel Gallegos Candela¹;
 Anne E Boyer¹; Adrian R. Woolfitt¹; Renato C. Lins²; Maria I. Solano¹; John R. Barr¹; ¹Center for Disease Control, Atlanta, GA; ²Battelle Integrated Science Solutions, Atlanta, GA
- TP 135 Analysis of Human Skin Wound Healing Process
 Using 2D-TOF-SIMS; Anthony Castellanos¹; Ivan Jozic²;
 Francisco A. Fernandez-Lima³.⁴; ¹Florida International
 University, Miami, FL; ²Dr. Phillip Frost Department of
 Dermatology & Cutaneous Surgery, University of Miami
 Miller School of Medicine, Miami, FL; ³Department
 of Chemistry and Biochemistry, Florida International
 University, Miami, FL; ⁴Biomolecular Sciences Institute,
 Florida International University, Miami, FL
- TP 136 Global Protein Expression Alterations Linked to TDP-43 Dysregulation of Cryptic Exon Expression; Shivangi Awasthi¹; Rachel Korn¹; Robert E. Drolet¹; Jonathan P. Ling²; Philip C. Wong²; Sophie P. Batteur¹; Sean M. Smith¹; Nathan G. Hatcher¹; ¹Merck & Co. Inc., Kenilworth, New Jersey; ²Departments of Pathology and Neuroscience, The Johns Hopkins University School of Medicine, Baltimore, MD
- TP 137 Prediction of ZIKV Infection in Mosquitoes by MS
 Analysis of RNA Modification Biomarkers; Rachel
 Netzband^{1, 2}; Will McIntyre^{1, 2}; Gaston Bonenfant^{1, 2}; Sean
 Bialosuknia³; Alexander Ciota³; Cara T. Pager^{1, 2}; Daniele
 Fabris^{1, 2}; ¹University at Albany, Albany, NY; ²The RNA
 Institute, University at Albany, Albany, NY; ³Wadsworth
 Center, Department of Health, Albany, NY
- TP 138 Quantification of Full Length and Activated Anthrax Protective Antigen by Immunocapture and Isotope Dilution Mass Spectrometry; Maria I. Solano¹; Adrian R. Woolfitt¹; Anne E. Boyer¹; Renato C. Lins²; Maribel Gallegos-Candela¹; Hercules Moura¹; Carrie L. Pierce¹; John R. Barr¹; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²Battelle Memorial Institute at the Centers for

- Disease Control and Prevention, Atlanta, GA
 TP 139 Integrating Spectral Library Search and Database
 Search to Improve Endogenous Peptide Identification;
 Lei Xin¹; Xin Chen¹; Zhewei Liang¹; Wenju Zhang¹; Baozhen
 Shan¹; ¹Bioinformatics Solutions Inc., Waterloo, ON
- TP 140 Is NAP Treatment a Solution for Neuroprotection in ADNP Mutation Syndrome?; Ming-Hui Yang¹; Yi-Chia Lee²; Hsin-Yi Wu³; Ko-Chin Chen⁴; Yi-Ming Arthur Chen⁵; Yu-Chang Tyan²; ¹National Health Research Institutes, Zhunan, Taiwan; ²Kaohsiung Medical University, Kaohsiung, Taiwan; ³National Taiwan University, Taipei, Taiwan; ⁴Changhua Christian Hospital, Changhua, Taiwan; ⁵Taipei Medical University, Taipei, Taiwan
- TP 141 Proteomic Profiling in Hematopoietic Tissues of Jak2
 Conditional Knock-Out Mice; Jin Koh¹; Sung Park¹; MiJeong Yoo¹; Sixue Chen¹; Peter Sayeski¹; ¹University of
 Florida, Gainesville, FL

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- Novel Fractionation Techniques Applied to Oil-Contaminated Residues Characterized by FT-ICR Mass Spectrometry Reveal the Complexity of Ox Transformation Products; Cameron C. Davis¹; Amy Mckenna M. Mckenna²; Huan Chen²; Ryan P. Rodgers².
 ³; Sydney Niles².³; Martha Chacón-Patiño²; Qianxin Lin⁴; Aixin Hou⁵; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ³Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL; ⁴Department of Oceanography and Coastal Sciences, College of the Coast and Environment, Louisiana State University, Baton Rouge, LA; ⁵Department of Environmental Sciences, College of the Coast and Environment, Louisiana State University, Baton Rouge, LA
- TP 143 Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Reveals the Role of Heteroatoms in Asphaltene Chemistry; Martha Liliana Chacón-Patiño¹; Donald F. Smith¹; Sydney F Niles¹; Jonathan C. Putman¹; Amy M. McKenna¹; Yuri E. Corilo¹; Christopher L. Hendrickson¹; Alan G. Marshall¹; Ryan P. Rodgers¹; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL
- TP 144 UPLC-MS/MS Determination of Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine and its Reaction
 Products in Extra Heavy Crude Oil; Lun-yi Zang¹; Martin
 Harper².³; ¹CDC/NIOSH/HELD, Morgantown, WV; ²Zefon
 International, Inc., Ocala, FL; ³Department of Environmental
 Engineering Sciences, University of Florida, Gainesville, FL
- TP 145
 Application of Molecular Characterization for fluorine
 Polymers Using Thermal Desorption/Pyrolysis DARTMS; Chikako Takei¹; Kenichi Yoshizawa¹; <u>Derek Gonzales</u>²;
 Sayaka Nakamura³; Hiroaki Sato³; ¹BioChromato,
 Inc., Fujisawa, Japan; ²BioChromato USA, San Diego,
 California; ³National Institute of Advanced Industrial Science
 and Technology, Tsukuba, Japan
- TP 146 Speciation of Asphaltenes Using Mass-Deficient Tagging Mass Spectrometry and Metal-Reduced Nuclear Magnetic Resonance Spectroscopy; lan Anthony¹; Michael T. Spiegel¹; Annie Arvidson¹; Shubhneet Warar¹; Touradj Solouki¹; ¹Baylor University, Waco, TX
- TP 147 Inductively Coupled Plasma-Mass Spectrometry
 Characterization of Asphaltene Metals Pre- and PostCleanup for Enhanced Nuclear Magnetic Resonance
 Spectroscopy Results; Annie E. Arvidson¹; lan G. M.
 Anthony¹; Michael T. Spiegel¹; Shubhneet Warar¹; Patrick J.
 Farmer¹; Touradj Solouki¹; ¹Baylor University, Waco, TX
- TP 148 Structural Comparison of Nickel and Vanadyl Porphyrins from Natural Seeps and the 1.1-Billion-Year-Old Shale Oil; Huan Chen¹; Martha L. Chacón-Patiño¹;



- TP 149 Increasing Analytical Separation of Polycyclic Aromatic Hydrocarbons from Crude Oils Using GC-TIMS-MS; Clement Ajibade Olanrewaju¹; Cesar E. Ramirez²; Francisco Fernandez-Lima Fernandez Lima³; ¹Department of Chemistry and Biochemistry, Florida International University, Miami, FL; ²Advance Mass Spectrometry Facility, Department of Chemistry and Biochemistry, Florida International University. Miami Florida, Miami, FL; ³Department of Chemistry and Biochemistry, Florida International University, Mimai, FL
- TP 150 CID Fragmentation Studies of Asphaltenes at Different Precipitation Times Using Magnetic Resonance Mass Spectrometry (MRMS); Matthias Witt¹; Michael L. Easterling²; Estrella Rogel³; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Daltonics Inc., Billerica, MA; ³Chevron, Richmond, CA
- TP 151 Analysis of Jet Fuel Thermal Oxidative Deposits by Pyrolysis Gas Chromatography/Mass Spectrometry;

 Krege Matthew Christison^{1, 2}; Michael Browne²; Tommy Nguyen²; O. David Sparkman²; ¹Chevron, Richmond, CA; ²University of the Pacific, Stockton
- TP 152 Evaluation of Time Effects on Precipitated Asphaltene Characteristics Using APPI and LDI coupled to Magnetic Resonance Mass Spectrometry (MRMS); Estrella Rogel¹; Matthias Witt²; Michael Moir¹; ¹Chevron, Richmond, CA; ²Bruker Daltonik GmbH, Bremen, Germany
- TP 153 Electron-Transfer Ionization in MALDI-MS for the Direct Targeted Analysis of Metalloporphyrins in Complex Mixtures; Juan Ramirez¹; Cristian Blanco-Tirado¹; Pierre Giusti²; Carlos Afonso³; Marianny Y. Combariza¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia; ²Total Research & Technology Gonfreville, Harfleur, France; ³University of Rouen, Mont Saint Aignan, Erance
- TP 154 New Insights in Crude Oil Using MS, NMR, and EPR;

 Michael T. Spiegel¹; lan G. M. Anthony¹; Shubhneet Warar¹;

 Annie Arvidson¹; Anish Sasmal¹; Touradj Solouki¹; Patrick J.

 Farmer¹; ¹Baylor University, Waco, TX
- TP 155 (+/-) ESI FT MS Analysis of Crude Oils from the Volga-Ural Region; Vlad Lobodin¹; Dmitrii Mazur²; Roman Borisov³; ¹MAXIKAT, INC, Tallahassee, FL; ²The Department of Chemistry, Moscow State University, Moscow, Russia; ³A.V. Topchiev Institute of Petrochemical Synthesis, Moscow, Russia
- TP 156 Fast, Robust, 'Dilute and Shoot' Screening of Adulterated Low Taxation Fuels; G. John Langley^{1, 2}; Julie M. Herniman¹; James Barker^{2, 3}; 'University of Southampton, Southampton, United Kingdom; ²Energy Institute, London, United Kingdom; ³Innospec Inc., Ellesmere Port, United Kingdom
- TP 157 Development of Predictive Methods of Sulfur Content in Hydropyrolysis Oil Products by Elemental Sulfur Analysis of Crude Oil Feedstocks; Kyle L. Wilhelm¹; Drew Stolpman²; Zhao Wang¹; Bill Hockaday¹; Touradj Solouki¹;

 **Baylor University, Waco, TX; **Paylor University, Waco, TX
- TP 158 Hydrocarbons High Mass Profiling of Crude and Commercial Oils Using LDTD-HRMS Technology;

 Jonathan Rochon¹; Pier-Luc Plante¹; Serge Auger²; Jean Lacoursière²; Pierre Picard²; ¹Université Laval, Québec, QC;

 ²Phytronix Technologies, Inc., Quebec, QC

TP 159 Development of Quantitative Isotope Labeling IC-MS/
MS method for Phosphonate Scale Inhibitors Analysis;
Lei (Lyla) Cheng¹; Christopher Durnell¹; Robert Pultz¹;
Manojkumar Bhandari¹; Christine Kerr¹; Emerilis CasadoRivera¹; ¹Nalco Champion, Sugar Land, TX

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- TP 160 Simultaneous Detection of 12 Microcystins, Nodularin, Cylindrospermopsin, and Anatoxin-a; Matthew Prescott¹; Yingbo C. Guo¹; Ali Haghani²; Andrew Eaton²; ¹Metropolitan Water District of Southern California, La Verne, CA; ²Eurofins Eaton Analytical. 750 Royal Oaks Drive, Monrovia, CA
- TP 161 Analysis of Drinking Water for Determination of Volatile Organic Components (VOC's) Using Dynamic Headspace Gas Chromatography Mass Spectrometry; Sanket Anand Chiplunkar¹; Dheeraj Handique¹; Prashant Hase¹; Durvesh Sawant¹; Nitish Suryawanshi¹; Aseem Wagle¹; Pratap Rasam¹; Jitendra Kelkar¹; Ajit Datar¹; Satyendra Thakur²; Sunil Singh²; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ²Shimadzu Analytical (India) Pvt. Ltd., New Delhi, India
- TP 162 Trace Analysis of PFAS in Environmental and Serum Samples by Micro-SPE; Andrew Minett¹; Mohammad Talebi²; Thomas Lockwood³; ¹EPREP, Mulgrave, Australia; ²Envirolab, Sydney, Australia; ³University of Technology Sydney, Sydney, Australia
- TP 163 Structural Elucidation of the Direct Photolysis
 Transformation Products of a Halogenated Estrogen;
 Keeton T. Nance¹; Carolyn P. Hutchinson¹; David R. Griffith¹;

 Willamette University, Salem, OR
- TP 164 Developing an Untargeted High-resolution Mass Spectrometry Method for the Detection and Identification of Glucuronide Biotransformation Products in Environmentally Exposed Fish; Marina Evich¹; Jonathan Mosley²; Ioanna Ntai³; Drew Ekman²; Timothy Collette²; ¹ORISE Fellow, US EPA, Athens, GA; ²US EPA, Athens, GA; ³ThermoFisher Scientific, San Jose, CA
- TP 165 A Novel Mass Spectrometric Method to Measure Siloxanes; Eleanor Browne¹; Mitchell Alton¹; ¹University of Colorado Boulder, Boulder, CO
- TP 166 Improved Non-Target Screening Based Identification of Organic Micropollutants in Water Samples; Andrea Mizzi Brunner¹; Seema Sharma²; Christian Panse³; Romain Huguet²; Dennis Vughs¹; Vlad Zabrouskov²; Annemieke Kolkman¹; ¹KWR Watercycle Research Institute, Nieuwegein, Netherlands; ²Thermo Fisher Scientific, San Jose, Ca, 95134; ³Functional Genomics Center Zurich, Zurich, Switzerland
- TP 167 You Can Only See What You Can Ionize: A Comparison of Ionization Techniques for Dissolved Organic Matter Mass Spectrometric Characterization; Juliana R.

 Laszakovits¹; Allison A MacKay¹; ¹The Ohio State University, Columbus, OH
- TP 168 Toxin Identification and Correlation to Biological Endpoints Using Multivariate Data Analysis: An LC-HRMS Top-Down Approach to Discerning Differential Toxicological Responses; Raegyn B. Taylor¹; Jonathan M. Bobbitt¹; Bridgett N. Hill¹; Amanda S. Hering¹; Bryan W. Brooks¹; Kevin Chambliss¹; ¹Baylor University, Waco, TX
- TP 169 Gestational Exposure to Benzotraizoles and Benzothiazoles in Relation to Birth Weight: A Repeated Measures Study; Yanqiu Zhou¹; Zongwei Cai²; ¹Hong Kong Baptist University, Hong Kong, Hong Kong; ²Hong Kong Baptist University, Hong Kong, China
- TP 170 A Direct Inject Approach for Analysis of Legacy and Emerging Perfluoroalkyl Substances in Environmental Water and Soil Samples; Kari Organtini¹; Kenneth Rosnack¹; Doug Stevens¹; Aurelie Marcotte¹; ¹Waters Corporation, Milford, MA



- TP 171 Ultrafast Trace Quantitation of PFAS in Drinking and Environmental Waters Using an Automated Sample Preparation and LC-MS/MS System; Nigel Grieves¹; David Humberstone¹; Cindy Si Ni Lee²; Atsuhiko Toyama²; ¹Shimadzu Scientific Instruments Oceania, Sydney, Australia; ²Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore
- TP 172 **Drinking Water Safety and Sustainability: Using Mass Spectrometry to Identify Chemical Drivers of Toxicity**;

 <u>Joshua M. Allen</u>¹; Michael J. Plewa²; Jia Ai³; Carrie Guo³;

 Amy A. Cuthbertson¹; Hannah K. Liberatore¹; Tiffany Lee³;

 Raha Shirkhani³; Stuart W. Krasner³; Susan D. Richardson¹;

 **Iuniversity of South Carolina, Columbia, SC; ²University

 of Illinois at Urbana Champaign, Urbana, IL; ³Metropolitan

 Water District of Southern California, La Verne, CA
- TP 173 Fast Semi-Automated Extractable Petroleum Hydrocarbons Fractionation and Cleanup; Tom Hall¹; Ruud Addink¹; ¹Fluid Management Systems, Watertown, MA
- TP 174 Understanding the Structural Complexity of Dissolved Organic Matter: Isomeric Diversity; Dennys Leyva¹; Lilian V. Tose¹; Jacob Porter¹; Jeremy Wolff²; Rudolf Jaffé³; Francisco A. Fernandez-Lima¹.⁴; ¹Department of Chemistry and Biochemistry, Florida International University, Miami, FL; ²Bruker Daltonics Inc., Billerica, MA; ³Southeast Environmental Research Center, Florida International University,, Miami, FL; ⁴Biomolecular Sciences Institute, Florida International University, Miami, FL
- TP 175

 Detection and Quantification of Nine Haloacetic Acids with Ion Chromatography Mass Spectrometry; Phuc Nguyen¹; David Clases¹; David Bishop¹; Philip Doble¹; ¹University of Technology Sydney, Sydney, Australia
- TP 176 Chemicals in Textiles: A Source of Environmental Pollution and Human Exposure?; Francesco ladaresta¹; Carlo Crescenzi²; Conny Ostman³; ¹stockholm university, stockholm, Sweden; ²University of Salerno, Salerno, Italy; ³Stockholm University, Stockholm, Sweden
- TP 177 Integrated Use of QTOF and Q-Exactive Orbitrap Mass Spectrometry for Suspect and Non-Target Screening of Emerging Pollutants in Wastewater; Hailemariam AAssress¹; Hlengilizwe H. Nyoni¹; Bhekie B. Mamba¹; Titus TAM Msagati¹; ¹University Of South Africa(UNISA), Johannesburg, South Africa
- TP 178 High-Throughput Determination of Seventeen Cyanotoxins and Suspect Screening of Other Cyanopeptides by SPE-UHPLC-HRMS in Canadian Lakes; Audrey Roy-Lachapelle¹; Sung Vo Duy²; Dinh Quoc Tuc²; Gabriel Munoz²; Sébastien Sauvé²; Christian Gagnon¹; ¹Environment and Climate Change Canada, Montréal, QC; ²University of Montreal, Montreal, QC
- TP 179 Arsenic and Thioarsenic Speciation Using Ion Chromatography Mass Spectrometry; <u>Tisa Campbell</u>; Jianye Zhang¹; **Ivoorhees College, Denmark, SC
- TP 180 Direct Photolysis Transformation Products from Brominated Estrogens in Treated Wastewater Effluent;

 Carolyn P. Hutchinson¹; Keeton T. Nance¹; David R. Griffith¹; ¹Willamette University, Salem, OR
- TP 181 Photolysis of Emerging Contaminants Absorbed on Plastic Debris in an Aqueous Environment; Xiolmara Martinez¹; Daryl Giblin²; Angeline Alag¹; Kathryn Renyer¹; Michael L Gross²; M. Paul Chiarelli¹; ¹Loyola University, Chicago, IL; ²Washington University, St. Louis, MO
- TP 182 High Throughput Analysis of Deer Tissue for Perfluorinated Compounds by Reversed Phase High Performance Liquid Chromatography Tandem Mass Spectrometry; Michael C. Stagliano¹; Jessica M. Morrison¹; Timothy A. Karrer¹; Matthew J. Geiger¹; ¹MI Dept of Health & Human Services, Lansing, MI

- TP 183 A New Method for a Systematic Analysis of Siderophores in Soils; Vineeta Rai¹; Oliver Baars¹; ¹North Carolina State University, Raleigh, NC
- TP 184 A Single Analytical Method for the Determination of Legacy and Emerging Per- and Poly Fluoroalkyl Substances (PFAS) in Aqueous Matrices; Timothy Coggan¹; Tarun Anumol²; Bradley Clarke¹; ¹RMIT University, Melbourne, Australia; ²Agilent Technologies, Wilmington, DE
- TP 185 Moving Beyond Monitoring Legacy Per and Polyfluoroalkyl Substances (PFAS): Screening Strategies for the Growing List; James S Pyke¹; Tarun Anumol²; Jerry A. Zweigenbaum²; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Wilmington, DE
- TP 186 Identification and Quantification of Microcystins in Western Lake Erie during 2016 and 2017 Harmful Algal Blooms; Dilrukshika S W Palagama¹; David Baliu-Rodriguez¹; Brenda K Snyder¹; Jennifer A Thornburg¹; Thomas B Bridgeman¹; Dragan Isailovic¹; 'University of Toledo, Toledo, OH
- TP 187 Fast Semivolatiles Method by GC/MS/MS that Meets EPA 8720D/E Requirements; Melissa Churley¹; Bruce Quimby²; Anastasia Andrianova²; ¹Agilent, Santa Clara, CA; ²Agilent, Wilmington, DE
- TP 188 Determination of 8 Nitrosamines in Water by Liquid Chromatography Coupled to Tandem Mass Spectrometry; Wei Du¹; Xiaorong Ran¹; ¹Agilent Technologies(China) Co. Ltd., Beijing, China
- TP 189 Automated Liquid-Liquid Extraction for Environmental Analysis; Masoomeh Tehranirokh^{1, 2}; Marcel Van de Bronk²; Andrew Gooley^{1, 2}; Peter Smith³; Zhengshan Dai³; Kyle Bachus²; Simon Mills⁴; Robert Shellie⁵; ¹ARC Training Centre for Portable Analytical Separation Technologies (ASTech), Hobart, Australia; ²Trajan Scientific and Medical, Ringwood, Australia; ³Trajan Scientific and Medical, Morrisville, NC; ⁴Envirolab, Sydney, Australia; ⁵Centre for Advanced Sensory Science (CASS), School of Exercise and Nutrition Sciences, Deakin University, Melbourne, Australia
- TP 190 Differential Expression of Inflammatory Proteins in New Male and Female Swine Confinement Workers;
 Brooke Thompson¹; Paulos Chumala¹; David Schneberger¹;
 Shelley Kirychuk¹; George S. Katselis¹; ¹University of Saskatchewan, Saskatoon, SK
- TP 191 Methods for Metaproteomic Analysis of the Ocean;

 Matthew McIlvin¹; Mak Saito²; ¹Woods Hole Oceanographic
 Inst., Woods Hole, MA; ²Woods Hole Oceanographic
 Institution, Woods Hole, MA

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- TP 193 Micropollutant Removal during Wastewater Treatment:
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 High Resolution Accurate Mass LC-MS/MS; Madhuri
 Damaraju¹; Keerthi Katam¹; Lokesh Kumar Akula¹; Prasanth
 Joseph²; Saikat Banerjee²; Debraj Bhattacharyya¹;
 ¹Indian institute of Technology, Hyderabad, India; ²Agilent
 Technologies, Whitefield, Bengaluru, India
- TP 194 Quantification of Azithromycin in Sheep Tissue Samples Using LCMSMS; Chander Mani¹; T.s. Lohith²; Saikat Banerjee¹; Samir Vyas¹; S.m. Byreqowda²; K.



- TP 195 **Developing Methods to Assess the Environmental** Impact of Pesticides and Pharmaceuticals on Aquatic Fauna Using Targeted and Untargeted HRAM Q-TOF; <u>Christopher Titman</u>¹; Thomas H Miller²; Keng Tiong Ng²; Nicholas R Bury^{3, 4}; Leon P Barron²; Alan Barnes⁵; Neil Loftus⁵; ¹Shimadzu UK Limited, Milton Keynes, United Kingdom; ²Department of Analytical, Environmental & Forensic Sciences, School of Population Health & Environmental Sciences, Faculty of Life Sciences and Medicine, King's College London, United Kingdom; 3School of Science, Technology and Engineering, University of Suffolk, James Hehir Building, University Avenue, Ipswich, United Kingdom; ⁴Division of Diabetes and Nutritional Sciences, Faculty of Life Sciences and Medicine, King's College London, Franklin Wilkins Building, United Kingdom; ⁵Shimadzu Corporation, Manchester, United Kingdom
- TP 196 An LC-MS/MS Study of the Kinetics of Atrazine Decomposition Catalyzed by Interactions with Soil;

 Heather Gamble¹; Donald S Gamble²; Jincun Wu¹; Mitesh Patel³; ¹PerkinElmer Inc., Woodbridge, ON; ²St. Mary's University, Halifax, NS; ³PerkinElmer Inc., Bolton, ON
- TP 197 ESS-MAT: A New Approach for Simultaneous Analysis of Organophosphate Pesticides and their Degradation Products On Agricultural Products; noam Kirshenbaum¹; Tamara Polubesova¹; Benny Chefetz¹; ¹Department of Soil and Water Sciences The Robert H. Smith Faculty of Agriculture, Food and Environment The Hebrew University of Jerusalem, Rehovot, Israel
- TP 198 Identification and Quantification of Degradation Products in Amoxicillin and Sertraline Stored Aboard the International Space Station; Virginia K James¹; Wendy Cory¹; ¹College of Charleston, Charleston, SC
- TP 199 Combination of Targeted and Non-Targeted Workflows for the Identification of Pollutants in River Water Using a Passive Sampling Method; Anthony Gravell¹; Melanie Schumacher¹; Bob Galvin²; Carsten Baessmann³; ¹Natural Resources Wales, Swansea University, Swansea, United Kingdom; ²Bruker UK Ltd., Coventry, United Kingdom; ³Bruker Daltonik GmbH, Bremen, Germany
- TP 200 Trace determination of Octyl & Nonyl-phenols and Ethoxylates and Bisphenol A Using On-Line SPE and Q Exactive Focus Orbitrap LCMSMS; Nevillee Llewellyn¹; James Thomas²; Olaf Scheibner³; Ed George⁴; ¹ThermoFisherScientific, Hemel Hempstead, United Kingdom; ²Scottish Environment Protection Agency, Glasgow, United Kingdom; ³Thermo Fisher Scientific (Bremen), Bremen, Germany; ⁴Thermo Fisher Scientific, San Jose. CA
- TP 201 Simultaneous Targeted Quantification and Suspect Screening of Environmental Contaminates in Sewage Sludge by High Resolution LC-QTOF; James S Pyke¹; Gabrielle Black²; Kai Chen¹; Tarun Anumol³; Thomas M Young²; ¹Agilent Technologies, Inc., Santa Clara, CA; ²University of California, Davis, Davis, CA; ³Agilent Technologies, Inc., Wilmington, DE
- TP 202 Fast Creatinine Determination in Wastewater by Liquid Chromatography-Mass Spectrometry; Lisa Wanders¹; Matthew Obusek¹; ¹Thomson Instrument Co, Oceanside, CA
- TP 203 Use of Triple Quadrupole Mass Spectrometry to Characterize Antibiotics in Cow Manure; Andrea Yarberry.¹; Clifford Rice¹; Carlton Pointexter²; Stephanie Lansing²; ¹United States Department of Agriculture, Beltsville, Maryland; ²University of Maryland, College Park, Maryland
- TP 204 Estrogen Monitoring in River Waters at Low Part Per Trillion Levels by Online SPE-UHPLC-MS/MS; Jason

- Weisenseel¹; Jamie Foss¹; Wilhad Reuter¹; ¹PerkinElmer, Shelton, CT
- TP 205 Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in Drinking Water at Low Part Per Trillion Levels by Online SPE-UHPLC-MS/MS; Jamie Foss¹; Wilhad Reuter¹; ¹PerkinElmer, Shelton, CT
- TP 206 Reliable Determination of Sulfonamides in Environmental Water Matrices Using UHPLC-MS/MS; Xiulan Zhang¹; Chaofei Zhu¹; Jing Guo¹; Meiling Lu²; Liang Dong¹; Yeru Huang¹; ¹National Center for Environmental Analysis and Measurement, Beijing, China; ²Agilent Technologies (China) Limited, Beijing, China
- TP 207 Exploring the Physicochemical Properties of Pesticides Using Differential Mobility Spectrometry and Machine Learning-Based Modelling; J. Larry Campbell¹; J. C. Yves Le Blanc¹; Brendon Seale^{1, 2}; Zack Bowman³; Jeff Crouse³; Ce Zhou³; W. Scott Hopkins³; ¹SCIEX, Concord, ON; ²York University, Toronto, ON; ³University of Waterloo, Waterloo, ON
- TP 208 Orbitrap Assessment of Targeted and Non-Targeted Pharmaceuticals and Personal Care Products in Wastewater Effluents and their Impact on River Water; Vimbai Mhuka¹; simiso Dube²; Mathew M Nindi¹; ¹UNISA, Florida Park, Roodepoort, South Africa; ²UNISA, Florida Park, Roodepoort, South Africa
- TP 209 Qualitative and Quantitative in vitro Fish Metabolism Study for Environmental Safety Assessment of Xenobiotics using LC-HRMS; Vivek Badwaik¹; Mingming Ma¹; Xiao Zhou¹; Mercedes Biven¹; Jeremy McFadden¹; Guomin Shan¹; Yelena A Adelfinskaya¹; ¹Corteva Agriscience, Indianapolis, IN
- TP 210 Application of UPLC-MS/MS for Determination of Synthetic Organic Dyes and their Metabolites; Angelika Tkaczyk¹; Kamila Mitrowska¹; Andrzej Posyniak¹; ¹National Veterinary Research Institute (PIWet), Pulawy, Poland
- TP 211 Ultra-Fast Screening of Glyphosate, Glufosinate and AMPA in Surface Water by LDTD-QqQMS; Cassandra Guérette¹; Serge Auger²; Pierre Picard²; Pedro A. Segura¹; ¹Universite de Sherbrooke, Sherbrooke, Quebec; ²Phytronix Technologies, Inc., Quebec, QC
- TP 212 Analysis of Semi-Volatile Organics in Drinking Water with Semi-Automated Solid Phase Extraction Using EPA Method 525.3; Rashid Juma¹; Rudolf Addink¹; ¹Toxic Report, Watertown, MA

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- TP 213 A High Resolution Mass Spectrometry (HRMS) Method for More 1000 Pesticides and Other Poisons: Methods and Madness; Marc E. Engel¹; Harrison Ansley¹; Walter Hammack¹; ¹FDACS, Tallahassee, FL
- TP 214 Investigation of Gluten Protein Degradation throughout Brewing Using N-Terminal Labeling Mass Spectrometry Analysis; Wanying Cao¹; Joseph Baumert¹; Melanie Downs¹; ¹University of Nebraska, Lincoln, Lincoln, Nebraska
- TP 215 Determination of Polar Pesticides in Grapes Using a Compact Ion Chromatography System Coupled with Tandem Mass Spectrometry; Beibei Huang¹; Jeffrey Rohrer¹; ¹Thermo Fisher Scientific, Sunnyvale
- TP 216 Highly Sensitive Direct Analysis of Glyphosate,
 Glufosinate and AMPA in the Beverages by LC-MS / MS;
 Manami Kobayashi¹; Miho Kawashima²; Yusuke Inohana²;
 Nozomi Maeshima¹; Junichi Masuda¹; Yoshihiro Hayakawa²;
 ¹Shimadzu Corporation, Hadano, Japan; ²Shimadzu
 Corporation, Kyoto, Japan
- TP 217 Analysis of Benzo[a]pyrene in Tobacco and Related Products by Ultra High-Performance Liquid Chromatography Tandem Mass Spectrometry;

 Xia Geng¹; Jingcun Wu²; Lizhong Yang³; Feng Qin²;



- ¹PerkinElmer Management(Shanghai) Co.,Ltd., Shanghai, China; ²PerkinElmer Inc., Woodbridge, Ontario; ³Perkinelmer Management (Shanghai) Co., Ltd., Shanghai, China
- TP 218 Quantitation of Heterocyclic Amines in Non-Meat Products and their Cancer Risks as Exposed; Tzu-Sheng Fang¹; Wei-Lun Su¹; Yi-Chen Sun¹; Hsin-Chang Cheng¹; ¹Institute of Food Safety and Health, National Taiwan University, Taipei, Taiwan
- TP 219 Fatty Acid Composition Analysis for Glycerides in Edible Oils Using Thermal Desorption/Pyrolysis DART-QTOFMS; Kenichi Yoshizawa¹; Chikako Takei¹; Michael Churchill²; ¹BioChromato, Inc., Fujisawa, Japan; ¹BioChromato USA, San Diego, California
- TP 220 Quantitation of Process-Induced Nitrogen Compounds in Foods Using QuEChERS Coupled with UPLC-MS/MS;

 Wei Lun Su¹; Hsin-Chang Chen¹; ¹Institute of Food Safety and Health, National Taiwan University, Taipei, Taiwan
- TP 221 Determination of Pyrrolizidine Alkaloids in Plant
 Material Using SFC-MS/MS; Anja Gruening¹; Gesa J.
 Schad¹; Jan Stenzler²; ¹Shimadzu Europa GmbH, Duisburg,
 Germany; ²Shimadzu Deutschland GmbH, Duisburg,
 Germany
- TP 222 **Distribution of Heterocyclic Amines in Fried and Braised Plant Protein Foods**; <u>Kai-Chieh Yang</u>¹; Yi-Chen
 Sun¹; Wei Lun Su¹; Hsin-Chang Chen¹; *Institute of Food
 Safety and Health, National Taiwan University, Taipei,
 Taiwan
- TP 223 Recent Trends in PDE-5 Inhibitors in Consumer Products; Flavia Morales-garcia¹; Sara E. Kern¹; Valerie M. Toomey¹; Melanie N. Parsons¹; ¹US FDA Forensic Chemistry Center, Cincinnati, OH
- TP 224 Development of a PRM Assay for Detection of Walnut and Hazelnut in Foods; <u>Justin Marsh</u>¹; Charles Yang²; Melanie Downs¹; Philip Johnson¹; ¹University of Nebraska Lincoln, Lincoln, NE; ²Thermo Fisher Scientific. San Jose. CA
- TP 225 Determination of Total Avilamycin Residues in Beef by LC-MS/MS; <u>Lusha Xu</u>¹; haijuan an¹; ¹Shimadzu (Shanghai) Global Laboratory Consumables Co., Ltd. Beijing Branch, Beijing, China
- TP 226 The Evaluation of Malachite Green and its Metabolites in Sediments of Aquaculture Environmentin Taiwan;

 Lai-Chuan Chang¹; Tzong-Shean Chin²; ¹Biotech Total Solutions Co., Ltd., New Taipei City, Taiwan; ²National Chia Yi University Taiwan, Chia Yi City, Taiwan
- TP 227 Simultaneous Determination of 130 Veterinary Drug in Pork Using Ultra Performance Liquid Chromatograph-Tandem Mass Spectrometry; Zhao Liu; Shimadzu (China) Co.,Ltd., Shanghai, China
- TP 228 Determination of 113 Pesticide Residues in Tea by LC-MS/MS; Chenyuan Zhang¹; Haijuan An²; Jian Kang³;
 ¹Shimadzu (Shanghai) Global Laboratory Consumables Co., Ltd., Shanghai, China; ²Shimadzu (Shanghai) Global Laboratory Consumables Co., Ltd. Beijing Branch, Beijing, China; ³Shimadzu (Shanghai) Global Laboratory Consumables Co., Ltd., Shanghai, China
- TP 229 Separation and Quantification of N-Acetyl-Cysteine and Glutathione by Isotopic Iodoacetamide Modification and HILIC Coupled with Tandem Mass Spectrometry;

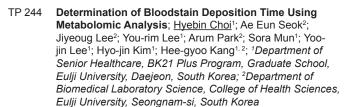
 <u>Shih-shin Liang</u>; Kaohsiung Medical University, Kaohsiung, Taiwan
- TP 230 Rapid Screening and Quantitative Analysis of Pesticides in Vegetables by Liquid Chromatography Tandem Quadrupole Time of Flight Mass Spectrometry;

 <u>Biao Ren; Shimadzu(China)Co.,LTD.Beijing Branch, Beijing, China</u>
- TP 231 Simultaneous Determination of Tebufenozide and Indoxacarb in Animal Products Using Liquid-Liquid Extraction Method Coupled with Liquid

- Chromatography-Tandem Mass Spectrometry; Kyung-Hee Yoo¹; Da-Hee Park¹; Seong-Kwan Kim¹; Ho-Chul Shin¹; ¹Konkuk university, Seoul, South Korea
- TP 232 Simultaneous Detection of Eight Prohibited Flavor
 Compounds in Foodstuffs Using Gas Chromatography—
 Tandem Mass Spectrometry; Feng Zhang¹; Feng Feng¹;
 ¹Institute of Food Safety, Chinese Academy of Inspection
 and Quarantine, Beijing, China
- TP 233 The Best Out of Three Worlds Pesticide Analysis in Honey by Hyphenation of TLC, HPLC and MS;
 Anita Piper¹; Markus Burholt¹; Michaela Oberle¹; Stephan Altmaier¹; Michael Schulz¹; ¹Merck KGaA, Darmstadt, Germany
- TP 234 Extractables and Leachables Analysis of Common Household Food Storage Products Using a Quadrupole Time-of-Flight (Q-TOF) Mass Spectrometer; Evelyn H. Wang¹; Helen Hao¹; Gerard Byrne¹; Jennifer Davis¹; Katie Pryor¹; Christopher Gilles¹; ¹Shimadzu Scientific Instruments, Inc., Columbia, MD
- TP 235 Pesticide Residue Analyses of QuEChERS Extracts of Different Food Matrices Using an Online Robotic SPE Clean-up Procedure Coupled to LC-MS/MS; Michael Hudson; Thermo Fisher Scientific, San Jose, CA
- TP 236 Simultaneous Analysis of Multiple Food Allergen and its Detection from Processed Food; Tairo Ogura¹; Yuka Fujito²; Toshiya Matsubara¹; Ichiro Hirano¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Scientific Instruments, Inc., Columbia, MD
- TP 237 A Multiresidue Method for Quantitation and Screening of Pesticide Residues in Baby Food Using LC-MS/MS; Anastasia Kallii¹; Charles Yang¹; Ed George¹; Dipankar Ghosh²; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, San Jose, CA
- TP 238 A Multiresidue Method for Pesticide Analysis Using an Orbitrap Tribrid Mass Spectrometer and Automatic Background Exclusion; Anastasia Kallii¹; Dipankar Ghosh¹; Seema Sharma¹: ¹Thermo Fisher Scientific. San Jose. CA
- TP 239 Targeted Screening and Quantitation of Pesticide Residues in Green Tea Using a Quadrupole Time-of-Flight Mass Spectrometer; Toshiya Matsubara¹; Huan Lin¹; Natsuyo Asano¹; Mikie Shima²; ¹Shimadzu Corporation, Kyoto, Japan; ²AiSTI Science Co., Ltd., Wakayama, Japan
- TP 240 Simultaneous Determination of Pesticide Residues in Vegetable Extract by Liquid Chromatograph Tandem Mass Spectrometry for High Recovery Rate; Nozomi Maeshima¹; Manami Kobayashi¹; Masuda Junichi¹; ¹Shimadzu Corporation, Hadano, Japan
- TP 241 New Workflow for Contaminants Screening in Strawberries Using High-Resolution GC/Q-TOF and Expanded Accurate Mass Library of Pesticides and Environmental Pollutants; Sofia Nieto¹; Anastasia Andrianova²; Jessica Westland²; Kai Chen¹; Vadim Kalmeyer¹; Yoshimasa Tsunoi¹; Li Sun¹; Lei Tao¹; Bruce Quimby²; Courtney Milner¹; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Wilmington, DE
- TP 242 Development and Validation of LC-MS/MS Method for Determination of Lipophilic and Hydrophilic Marine Toxins; Renat Selimov¹; Ayshat Botasheva¹; Elizaveta Goncharova¹.²; Denis Nekrasov¹; Pavel Metalnikov¹; Alexandre Komarov¹; ¹VGNKI, Moscow, Russian Federation; ²Moscow State University, Moscow, Russian Federation

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TP 243 Novel Opioid Trends and Retrospective Datamining for Emerging Opioids Using High Resolution Mass Spectrometry; Amanda L.A. Mohr¹; Mellissa F. Fogarty¹; Judith Rodriguez Salas¹; Barry K. Logan¹,²; ¹CFSRE, Willow Grove, PA; ²NMS Labs, Willow Grove, PA



- TP 245 BAC Analysis Utilizing GCMS and FID Combined with Fully Automated Sample Prep Performed but Robotic Sampler; Alan Owens¹; Rachel Lieberman²; Francis Welch²; Andy Sandy²; ¹Shimadzu Scientific Instruments, Columbia, MD; ²Shimadzu Scientific Instruments, Inc., Columbia, MD
- TP 246 Time of Flight Secondary Ion Mass Spectrometry (TOF-SIMS) Imaging of Illicit Narcotics; Greg Gillen¹; Shin Muramoto²; Jennifer R. Verkouteren²; Edward Sisco²; ¹National Institute of Standards and Technolgoy, Gaithersburg, MD; ²NIST, Gaithersburg, MD
- TP 247 Identifying Suspect Relevance to a Crime Scene Based on Fingerprint Age Biomarkers Using MALDI Imaging;

 Paige Hinners¹; Madison Thomas¹; Young Jin Lee¹; *Iowa State University, Ames, IA
- TP 248 Implementation of an Online µSPE The Final Step Towards Fully Automated LC-MS Urine Screening in Forensic Toxicology; Michaela Schmidt^{1, 2}; Marina Schumacher³; Birgit Schneider³; Laura M. Huppertz²; Jürgen Kempf²; ¹Faculty Medical and Life Sciences, Furtwangen University,, Schwenningen, Germany; ²Institute of Forensic Medicine, Medical Center University of Freiburg, Freiburg, Germany; ³Bruker Daltonik GmbH, Bremen, Germany
- TP 249 Targeted Screening for Drugs of Abuse in Postmortem Blood using LC-MS/MS; Dina Swanson¹; Theresa Evans-Nguyen¹; **IUniversity of South Florida, Tampa, FL
- TP 250 High-Spatial Resolution Matrix Assisted Laser
 Desorption/Ionization Mass Spectrometry Imaging of
 Human Hair Cross-Sections; Emily C King¹; Young-Jin
 Lee¹; *Iowa State University, Ames, IA
- TP 251 Method Validation of Drugs of Abuse Using Microchip Capillary Electrophoresis/Mass Spectrometry;

 Christopher Nicholson¹; Sabra Botch-Jones²; Scott Miller¹; Adi Kulkarni¹; ¹908 Devices, Boston, MA; ²Boston University School of Medicine, Boston, MA
- TP 252 Novel Platform for Online Sample Preparation and LC-MS/MS Analysis of Drugs in Biological Matrices; Sarah Olive¹; Joshua Emory¹; Aria McCall²; Ruth Gordillo³; Robert English¹; Rachel Lieberman¹; Brian Feild¹; Benjamin Figard¹; ¹Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ²Tarrant County Medical Examiner's Office, Fort Worth, Texas; ³University of Texas Southwestern Medical School, Dallas, Texas
- TP 253 A New Method for Species Identification Using Mass Spectrometry and Machine Learning; Heyi Yang¹; Erin Butler¹; Jennifer Teubl²; Samantha Monier¹; David Fenyo²; Donald Siegel¹; ¹Office of Chief Med Exam, New York, NY; ²NYU Medical Center, New York, NY
- TP 254 Sensitive and Reliable Method for Identification of Genetically Variant Peptides in Human Hair; Zheng Zhang¹; Meghan C. Burke¹; William E. Wallace¹; Yuxue Liang¹; Sergey L. Sheetlin¹; Yuri A. Mirokhin¹; Dmitrii V. Tchekhovskoi¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD
- TP 255 Analysis of Drugs and their Metabolites in Human Hair by Online SFE-SFC-MS/MS; Takahiro Goda¹; Junichi Masuda¹; Manami Kobayashi¹; Maiko Kawamura²; Ruri Kikura-Hanajiri²; ¹Shimadzu Corporation, Hadano, Japan; ²National Institute of Health Sciences, Kawasaki, Japan
- TP 256 Development of a Screening Method for Illicit Drugs in Hair Using LDTD-MS/MS at 8 Seconds Per Sample;

 Sandra Imrazene¹; Serge Auger¹; Pier-Luc Plante²; Jean Lacoursière¹; Pierre Picard¹; ¹Phytronix Technologies,

 Quebec, QC; ²Université Laval, Quebec, Quebec

- TP 257 Analysis of Synthetic Fentanyl Opioids in Serum Using Captiva EMR-Lipid Sample Preparation by LC-QTOF;

 Julie Cichelli; Agilent Technologies, West Chester, PA
- TP 258 Methamphetamine Impurity Profiling with GC×GC-TOFMS in Korea; Beom Jun Ko¹; Jin Young Kim¹; Dong Won Shin¹; ¹Supreme Prosecutors' Office, Seoul, South Korea
- TP 259 Screening, Quantification and Confirmation of Fentanyl Metabolite, N-[1-(2-phenethyl-4-piperidinyl)maloanilinic Acid, in Equine Urine for Doping Control Analysis by LC-MS/MS; Youwen You¹; Rachel M Proctor¹; Fuyu Guan¹; Jaclyn R Missanelli1¹; Xiaoqing Li¹; Mary A Robinson¹;

 1 University of Pennsylvania, Philadephia, PA
- TP 260 Mass Spectrometry-Based Detection of Genetically Variable Peptides: An Alternative to DNA Typing;

 Andrew J Reed¹; Maryam Baniasad²; Stella M Lai³; Liwen Zhang³; Florian Busch³; Vicki H. Wysocki³; Myles W Gardner⁴; F. Curtis Hewitt⁴; Michael A. Freitas³; ¹Campus Chemical Instrument Center, Ohio State University, Columbus, OH; ²The Ohio State University, Columbus, OH; ¹Signature Science, LLC, Austin, TX
- TP 261 Sub-minute Analysis for Samples of Forensic Applications; Luis Cuadra-Rodriguez¹; Melissa Churley¹; Lakshmi Krishnan¹; Courtney Milner¹; ¹Agilent Technologies, Inc., Santa Clara, CA
- TP 262 Identification of Genetically Variable Peptides from Human Skin Samples for Human Forensic Investigation; Myles W. Gardner¹; F. Curtis Hewitt¹; Michael A. Freitas²; August E. Woerner³; Liwen Zhang²; Maryam Baniasad²; Kathleen Q. Schulte¹; Alan R. Smith¹; Danielle S. LeSassier¹; Clifton J. Krueger¹; Nicolette C. Albright¹; Katharina L. Weber¹; Tara E. Manley¹; Leah W. Allen¹; Megan E. Powals¹; Benjamin C. Ludolph¹; 'Signature Science, LLC, Austin, TX; 'The Ohio State University, Columbus, OH; 'Scenter for Human Identification, University of North Texas Health Science Center, Fort Worth. TX
- TP 263 Development of Fiber Spray Ionization Mass Spectrometry (FSI-MS) for Direct Analysis of Drugs in Forensic Samples: A Comparison with PSI-MS; João Francisco Allochio Filho^{1, 2}; Nayara Araujo dos Santos²; Hanna Leijoto de Oliveira³; Keyller Bastos Borges³; Valdemar Lacerda Júnior²; Wanderson Romão^{2, 4}; ¹Federal Institute of Espírito Santo, São Mateus, Brazil; ²Petroleomic and Forensic Chemistry Laboratory, Department of Chemistry, Federal University of Espirito Santo, Vitória, Brazil; ³Federal University of São João del-Rei, Department of Natural Sciences, São João del-Rei, Brazil; ⁴Federal Institute of Espírito Santo, Vila Velha, Brazil
- TP 264 Proteomics Can Infer DNA Genotype from a Single Human Hair in Forensic Science; Glendon Parker¹; Zachary Goecker²; Jennifer Milan²; Christina De Leon²; Rachel Franklin²; Michelle Salemi²; Bailey Wills³; Brett Phinney²; Susan Walsh³; Robert Rice²; ¹University of California Davis, Davis, CA; ²University of California, Davis, Davis, CA; ³Indiana University-Purdue University Indianapolis, Indianapolis, Indiana
- TP 265 Determination of Health Status by MALDI-MSI of Latent Fingerprints; Kelly O'neill1'; Paige Hinners1; Young-Jin Lee1;
 1 lowa State University, Ames, IA
- TP 266 Forensic Sampling Using Nanoparticle Extraction and Capture; Jamira A Stephenson¹; Fabrizio Donnaruma¹; Kermit K Murray¹; ¹Louisiana State University, Baton Rouge, LA
- TP 267 Rapid In-Situ Analysis of Volatile Organic Compounds from Biological Samples of Forensic Interest; Stephanie Rankin-Turner; Loughborough University, Loughborough, United Kingdom



- TP 268 Modelling Retention Behavior on Analysis of Psychoactive Compounds in Hallucinogenic Mushrooms by HILIC-MS; Wen Jiang¹; Norbert Rácz²; Júlia Nagy³; Tibor Veress³; ¹HILICON AB, Umea, Sweden; ¹Department of Inorganic and Analytical Chemistry, Budapest University of Technology and Economics, Budapest, Hungary; ³Department of Drug and Arson Investigation, Hungarian Institute for Forensic Sciences, Budapest, Hungary
- TP 269 Utility of High Resolution Mass Spectrometry (HRMS) for the Discovery of Emerging Synthetic Cannabinoids and their Metabolites in Forensic Casework; Alex Krotulski¹; Amanda LA Mohr¹; Barry K Logan^{1,2}; ¹Center for Forensic Science Research and Education, Willow Grove, PA; ²NMS Labs, Willow Grove, PA

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- TP 270 Mechanism and Energetics of the Hydration of Th+
 to Form Th(OD)3+: Guided Ion Beam and Theoretical
 Studies; Peter B. Armentrout¹; Arjun Kafle¹; Richard M
 Cox²; ¹University of Utah, Salt Lake City, UT; ²Pacific
 Northwest National Laboratory, Richland, WA
- TP 271 "Understanding" Adduct Ion Molecular Structures and Stability in the Gas-Phase, Improving the Separation Power in Ion Mobility Spectrometry; A View; Maarten Honing¹; Darya Hadavi²; Jonah Norbury¹; Marina Borzova¹; Erik Lange van¹; ¹Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands; ²Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands
- TP 272 Systematic Alteration of Gas-Phase Acidities and Conformations with Insertion of a D-Amino Acid in Oligopeptides; Yuntao Zhang¹; Joshua S. Ho¹; Jianhua Ren¹; ¹University of the Pacific, Stockton, CA
- TP 273 Conformations and Energetics of B- and Y-lons in Peptoid Fragmentation; Joshua S. Ho¹; Yuntao Zhang¹; Jianhua Ren¹; ¹University of the Pacific, Stockton, CA
- TP 274 Reaction Rate Acceleration in Microdroplets Calculated Using Quantum Mechanical Modeling; Namita Narendra¹; Jinying Wang¹; James Charles¹; Tillmann Kubis^{1, 2, 3}; Xingshuo Chen⁴; R. Graham Cooks⁴; ¹School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN; ²Center for Predictive Materials and Devices, Purdue University, West Lafayette, IN 47906; ³Network for Computational Nanotehnology, Purdue University, West Lafayette, IN; ⁴Department of Chemistry, Purdue University, West Lafayette, IN
- TP 275 Solely Concentrating on the Negative Aspects of Life; <u>Jordan Rabus</u>¹; Philippe Maître²; Benjamin J Bythell³; ¹University of Missouri, Saint Louis, MO; ²Laboratoire de Chimie Physique (UMR8000), CNRS, Univ. Paris-Sud, Université Paris-Saclay, Orsay, France; ³University of Missouri, St. Louis, MO
- TP 276 Characterization of Precursor and Product Ions from Copper (II) Cationized, N-terminally Modified Glycine-Glycine Using Infrared Multiple-Photon Photodissociation Spectroscopy; Susan Kline¹; Amanda Bubas¹; Luke J. Metzler¹; Connor Graca¹; Theodore Corcovilos²; Jonathan Martens³; Giel Berden³; Jos Oomens³; Michael J. Van Stipdonk¹; ¹Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA; ²Department of Physics, Duquesne University, Pittsburgh, PA; ³Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Facility, Nijmegen, Netherlands
- TP 277 Spectral Derivatives. Exploring and Exploiting the Collision Energy Dependence of Tandem Mass Spectra;

 Yamil Simon; NIST, Gaithersburg, MD

- TP 278 Computational Analysis of Tandem-Trapped Ion Mobility / Mass Spectrometry Measurements Relates Identity of Proteoforms to their Tertiary and Quaternary Structures; Christian Bleiholder¹; Fanny C Liu¹; Tyler C Cropley¹; Mengqi Chai¹; ¹Florida State University, Tallahassee, FL
- TP 279 Dissociation Chemistry In Model Crude Oil
 Components; Maha Abutokaikah¹; Giri R Gnawali¹; Joseph
 W Frye¹; Curtis M Stump¹; John Tschampel¹; Christopher
 D Spilling¹; Benjamin J Bythell¹; ¹University of Missouri, St.
 Louis. MO
- TP 280 Structure and Reactivity of Anionic Uranyl Complexes with Acetate and Halide Ligands; Anna lacovino¹; Irena Tatosian¹; Luke Metzler¹; Theodore Corcovilos¹; Giel Berden²; Jonathan Martens²; Jos Oomens²; Michael Van Stipdonk¹; **IDuquesne University, Pittsburgh, PA; **2Radboud University Nijmegen, Institute for Molecules and Materials, FELIX Facility, Nijmegen, Netherlands
- TP 281 Experimental and Computational Investigation of the Hydrolysis of Gas-phase [UVIO2(R)]+, R=CH3, CH2CH3, CH=CH2 and C6H5; Michael J. Van Stipdonk¹; Irena Tatosian¹; Amanda Bubas¹; Anna Iacovino¹; Susan Kline¹; Luke Metzler¹; ¹Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA
- TP 282 Probing the Intrinsic Conformation of Anionic Uranyl Complexes Using IRMPD Spectroscopy and Quantum Chemical Calculations; Scott D. Rissler¹; Michael J. Van Stipdonk¹; Luke Metzler¹; Connor J Graca¹; Irena Tatosian¹; Amanda Bubas²; ¹Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA; ²University of Utah, Salt Lake City, UT
- TP 283 MultiCRAFTI: Relative Collision Cross Sections
 Through FTICR Methods without Need for Accurate
 Pressure Measurements or Single-Collision Dephasing
 Conditions; Brigham Pope¹; Daniel Joaquin¹; Jacob
 Hickey¹; David Dearden¹; ¹Brigham Young University, Provo,
- TP 284 Dependence of CRAFTI cross-sections on ion-neutral center-of-mass kinetic energy and ion dissociation energy; Andrew J. Arslanian¹; Noah Mismash¹; Jacob Shaner¹; Tina H. M. Farzan¹; Jamir Shrestha¹; David V. Dearden¹; ¹Brigham Young University, Provo, UT
- TP 285 Determining Topologies of Alkylammonium Complexes of Cucurbit[6]uril Using multiCRAFTI Techniques in an FTICR Mass Spectrometer; Jamir Shrestha¹; Zixuan Feng¹²; Mariah Pay¹; Andrew J. Arslanian¹; Tina H. M. Farzan¹; Brigham Pope¹; Jiewen Shen¹; David V. Dearden¹; ¹Brigham Young University, Provo, UT; ²Colorado State University, Fort Collins, CO
- TP 286 Structures and Characteristics of Cucurbit[5]uril-Halide Inclusion Complexes Capped by Alkali Metal Cations via CRAFTI Collision Cross Sections; Jiewen Shen¹; Tina H. M. Farzan¹; David V. Dearden¹; ¹Brigham Young University, Provo, UT
- TP 287 The Effects of Neutral Guest in Cucurbit[5]uril Complexes Containing Various Metals on Its CRAFTI Collision Cross Sections; Tina H. M. Farzan¹; Joseph W. Wilson¹; Sam Hickenlooper¹.²; Andrew J. Arslanian¹; David V. Dearden¹; ¹Brigham Young University, Provo, UT; ²University of Utah, Salt Lake City, UT

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- TP 288 Spatial Mapping of Ion Distributions in Pneumatically Assisted Electrosprays; Patrick Brophy¹; Thomas McDonald¹; Jim Murphy¹; Waters Corporation, Milford, MA
- TP 289 Elucidating H/D-Exchange Mechanism of Active Hydrogen in PAH Compounds; Arif Ahmed¹; Syful Islam¹; Sunghwan Kim¹; ¹Kyungpook National University, Daegu, South Korea



- TP 291 Investigating the Mechanism of Multivalent Cation-Induced Protein Supercharging through MD Simulations and Native MS Experiments; Leanne Martin¹; Haidy Metwally¹; Lars Konermann¹; ¹University of Western Ontario, London, ON
- TP 292 Insights into Ion Release from VSSI Droplets Obtained with Molecular Dynamics Simulations; Kinkini Udara Jayasundara¹; Nandhini Ranganathan¹; Chong Li¹; Ahmad Kiani Karanji¹; Peng Li¹; Stephen Valentine¹; ¹West Virginia University.C. Eugene Bennett Department of Chemistry, Morgantown, WV
- TP 293 The Role of Trace Constituents for the Sustained Operation of Corona Discharges in APCI; Florian Stappert¹; Steffen Braekling¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of Wuppertal, Wuppertal, Germany
- TP 294 Systematic Investigations of Electron Ionization Fragmentation Patterns of Selected MOCVD Precursors: Source Temperature and Electron Energy Dependence; Yessica Brachthäuser¹; Joshua Rieger²; Markus Langner²; Alexander Laue¹; Hin Yiu Chung¹; Thorsten Benter²; ¹Zeiss SMT GmbH, Oberkochen, Germany; ²University of Wuppertal, Wuppertal, Germany
- TP 295 The Mechanism of Carbohydrate Ionization to Form Metal-Ion Adducts from Nanosized Droplets during Electrospray; Emvia I Calixte¹; Tara Liyanage¹; H. Jamie Kim¹; Emily D. Ziperman¹; Amanda J Pearson¹; Elyssia S. Gallagher¹; ¹Baylor University, Waco, TX
- TP 296 Characterization of Ion-Molecule Reactions within Quadrupole Ion Trap Mass Analyzers by Chemical Modification of the Collision Gas; Christine Polaczek¹; Marco Thinius²; Hendrik Kersten²; Thorsten Benter²;

 1 University of Wuppertal, Wuppertal, Germany; 2 University of Wuppertal, Wuppertal, Germany
- TP 297 Numerical Study of Fluid Atomization in a High-Velocity Spray; Wei Wang^{1,2}; Steve Bajic¹; Benzi John²; David R. Emerson²; ¹Waters Corporation, Wilmslow, United Kingdom; ²Daresbury Laboratory, Science and Technology Facilities Council, Warrington, United Kingdom

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- TP 298 Comprehensive Machine Learning Prediction of GC/
 MS Pesticide Recovery Based on the Molecular
 Fingerprinting for Food QA/QC; Takeshi Serino^{1, 2}; Sadao
 Nakamura¹; Yoshizumi Takigawa¹; Norton Kitagawa³;
 Shigehiko Kanaya²; ¹Agilent Technologies, Hachioji City,
 Japan; ²Nara Institute of Science and Technology, Ikoma
 city, Japan; ³Agilent Technologies, Santa Clara, CA
- TP 299 A Simple VOC Capturing Method Coupled with GC-MS;

 Takeshi Furuhashi¹; Shigenori Ota²; ¹Anicom Specialty

 Medicinal Institute Inc, Tokyo, Japan; ²GL science Inc,

 Iruma city, Saitama prefecture, Japan
- TP 300 Tuning the Molecular Ion Abundance in Electron Ionization Mass Spectra and its Effects on Sample Identification; Ksenia Kladchenko¹; Alexander B. Fialkov¹; Tal Alon¹; Aviv Amirav¹; ¹Tel-Aviv University, Tel-Aviv, Israel
- TP 301 Complementary Techniques in the Environmental GC-MS Analysis; Albert T Lebedey¹; Viatcheslav Artaev²; Dmitrii Mazur¹; Georgii Tikhonov²; ¹Moscow State University, Moscow, Russian Federation; ²LECO Corporation, St Joseph, MI
- TP 302 Rapid Quantitative Analysis of Melamine in Semi-Solid Food; Michael D Browne¹; Tommy Nguyen¹; Krege Christison¹; Itsuko Iwai²; O. David Sparkman¹; **IUniversity of the Pacific, Stockton, CA; **Diablo Analytical, Antioch, CA

- TP 303 Comprehensive Determination of 209 Polychlorinated Biphenyls Using Two-Dimesional Gas Chromatrgraphy Triple Quadrupole Mass Spectrometry; Yun Zou¹; Shizhen Zhao²; Gan Zhang²; Satoshi Yamaki¹; Yuki Hashi³; Naoki Hamada¹; ¹Shimadzu(China)Co.,LTD.Beijing Branch, Beijing, China; ²Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China; ³Shimadzu (China) Co., LTD., SHANGHAI, China
- TP 304 Evaluation of Matrix Effect on Pesticides in Vegetables by GC-MS/MS; Ge Yin¹; Jun Fan²; ¹Shimadzu China, Shanghai, China; ²Shimadzu (China) Co., LTD., Shanghai, China
- TP 305 An Optimization Tool for MS Signal Acquisition in GC Triple Quadrupole Mass Spectrometry; Anastasia Andrianova¹; Melissa Churley²; 'Agilent Technologies, Wilmington, DE; 'Agilent Technologies, Santa Clara, CA
- TP 306 Volatile Profile Comparison of Flavored and Non-Flavored Vodkas by Purge & Trap Thermal Desorption GC/MS; Ron Shomo; Adaptas Solutions, ringoes, NJ
- TP 307 **Open Characterization of Vaping Liquids (e-liquids)**; <u>Ivana Kosarac</u>¹; Xinghua Fan¹; Cariton Kubwabo¹; Wei He¹; Jun Man¹; Trevor K. Mischki¹; **Health Canada, Ottawa, ON
- TP 308 Flow modulated GCxGC coupled to TOFMS for Non-Target Profiling of Food, Flavor, and Fragrance Samples; Elizabeth Humston-Fulmer¹; Lorne Fell¹; Joesph E Binkley¹; ¹LECO Corporation, St Joseph, MI
- TP 309 Tandem Ionisation for Improved Characterisation of Fragranced Products; Pete Grosshans¹; Laura McGregor¹; Nick Bukowski¹; Gerhard Horner²; ¹SepSolve Analytical, Peterborough, United Kingdom; ²Five Technologies, Munich, Germany
- TP 310 Coupling Comprehensive Two-Dimensional Gas Chromatography with an Orbitrap MS for Enhanced Separation and Identification; Xin Zheng¹; Jason Cole²; ¹Thermo Fisher Scientific, Austin, TX; ²Thermo Fisher Scientific, Austin, TX
- TP 311 Qualitative and Quantitative Analysis of Electronic Cigarette Liquids Using Gas Chromatography Orbitrap Mass Spectrometry; Jane A Cooper¹; Chris Allen²; Cristian I Cojocariu¹; Brody Guckenberger³;

 ¹Thermo Fisher Scientific, Runcorn, United Kingdom;
 ²Broughton, Skipton, United Kingdom; ³Thermo Fisher Scientific, Austin, TX
- TP 312 Non-Targeted Analysis of Natural Waters with GC-QTOFMS Addressing Critical Methodological and Data-Evaluation Challenges; Christina Troyer¹; Sebastian Handl¹; Zora Jandric¹; Kaan Kutlucinar¹; Tuba Recber¹; Ernest Mayr¹; Roza Allabashi¹; Reinhard Perfler¹; Stephan Hann¹; ¹University of Natural Resources and Life Sciences (BOKU), Vienna, Austria
- TP 313 Novel GC-MS Ionization Technique to Identify Unknown Compounds; Riki Kitano¹; Masato Takakura²; Akira Aono²; Kouki Tanaka²; ¹Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ²Shimadzu Corporation, Kyoto, Japan
- TP 314 Humans Smell to their Skin Microbiome and Microbes Smell Like What They Eat; Mabel Cristina Gonzalez¹; Chiara Carazzone¹; Adriana Marcela Celis¹; Jorge Alberto Molina¹; ¹Universidad de los Andes, Bogota, Colombia
- TP 315 Highly Sensitive TOF Mass Spectrometer coupled with a New User Friendly Flow Modulator for GCxGC-MS Analysis of Complex Mixtures; David Jesse Borton¹; Jonelle Shiel¹; Mark Merrick¹; Viatcheslav Artaev¹; John V Seeley²; ¹LECO Corporation, Saint Joseph, MI; ²Oakland University, Rochester, MI
- TP 316 Confident Confirmation of Steroids in Urine by Gas
 Chromatography-Advanced Electron Ionization (AEI)Triple Quadrupole Mass Spectrometry; Gustavo de
 Albuquerque Cavalcanti¹; Amit C Gujar²; Henrique Marcelo
 Gualberto Pereira³; Francisco Radler de Aquino Neto⁴;



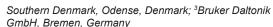
- Monica Costa Padilha^{5, 6}; ¹Federal University of Rio de Janeiro UFRJ- Brazilian Doping Control Laboratory -LBCD, Rio de Janeiro, Brazil; ²Thermo Fisher Scientific, Austin, TX; ³Federal University of Rio de Janeiro UFRJ Brazilian Doping Control Laboratory -LBCD, Rio de Janeiro, Brazil; ⁴Federal University of Rio de Janeiro UFRJ- Brazilian Doping Control Laboratory LBCD, LADETEC, Rio de Janeiro, Brazil; ⁵Federal University of Rio de Janeiro UFRJ- Brazilian Doping Control Laboratory -LBCD,, Rio de Janeiro, Brazil; ⁶Federal University of Rio de Janeiro UFRJ- Research Laboratory of Anabolic Agents, LAPAA, Rio de Janeiro, Rio de Janeiro, Brazil, Rio de Janeiro, Brazil
- TP 317 Molecular-lon Detection and Fragmentation Mechanisms of a Common Extractable 1,4,7-Trioxacyclotridecane-8,13-dione by GC/HRMS in Electron Ionization and Chemical Ionization Modes; Chongming Liu¹; Dujuan Lu¹; Danny Hower¹; Xiaoteng Gong¹; ¹SGS North America Inc., Fairfield, NJ
- TP 318 Analysis of Polychlorinated Dibenzo-p-dioxins, Furans and Biphenyls in Drinking Water with Semi-Automated Solid Phase Extraction Using EPA Method 1613; Rudolf Addink¹; Tom Hall¹; ¹Toxic Report, Watertown, MA

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- TP 319 Epitope Mapping of Antibodies against Cobrotoxin and Cardiotoxin III by Hydrogen/Deuterium Exchange Mass Spectrometry; Wei-Ya Chen¹; Wang-Chou Sung²; Sung-Fang Chen¹; ¹National Taiwan Normal University, Taipei, Taiwan; ²National Health Research Institutes, Zhunan, Taiwan
- TP 320 Hydrogen Deuterium-Exchange Mass Spectrometry to Measure Nucleosome Dynamics; Abigail A. Lemmon¹; Geoffrey P. Dann¹; Kelly R. Karch¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA
- TP 321 Conformational Changes of BtuF upon Binding to Vitamin B12 Revealed by Hydrogen Deuterium Exchange Nanospray Mass Spectrometry; Lijun Zhou; Nanjing University of science and technology, Nanjing, China
- TP 322 Active Site Single Point Mutations Modulates the Dynamic Properties of Human Monoacylglycerol Lipase: A Hydrogen Deuterium Exchange Mass Spectrometry Study; Ioannis Karageorgos¹; Sergiy Tyukhtenko²; Kyle Anderson¹; Girija Rajarshi²; NIkolai Znonok²; Alexandros Makriyannis²; Jeffrey Hudgens¹; ¹NIST, Rockville, MD; ²Northeastern University, Boston, MA
- TP 323 Integrating HDX-MS and Native MS into Structure-Based Drug Discovery; Liliana Pedro¹; Dayana Argoti¹; Weiping Jia¹; Patrick Rudewicz¹; ¹Novartis Institutes for Biomedical Research, Emeryville, CA
- TP 324 Hydrogen-Deuterium eXchange Coupled to Mass Spectrometry Highlights a Reciprocal Crosstalk between the Inner and Outer Rings of the 20S Proteasome; Jean Lesne¹; Julien Parra¹; Dusan Zivkovic¹; Thomas Menneteau¹; Matthieu Chavent¹; Marie Locard-Paulet¹; Marie-Pierre Bousquet-Dubouch¹; Odile Burlet-Schiltz¹; Julien Marcoux¹; ¹Institut de Pharmacologie et de Biologie Structurale, Université de Toulouse, CNRS, UPS, Toulouse, France
- TP 325 Temperature and Mutation-Dependent Study of a Model TIM Barrel Domain-Containing Enzyme Performed Using Hydrogen/Deuterium Exchange Mass Spectrometry;

 Anthony T. lavarone¹; Emily J. Thompson¹; Judith P. Klinman¹; ¹UC Berkeley, Berkeley, CA
- TP 326 Analysis of Oxidatively Damaged Proteins by H/D Exchange Mass Spectrometry; Vincent A Saullo¹; Lars Konermann²; ¹University of Western Ontario, London, ON; ²University of Western Ontario, London, ON

- TP 327 Connecting Ligand-Induced Dynamics to Potency: Analyzing Anti-Cancer Rexinoids by Hydrogen Deuterium Exchange Mass Spectrometry; Nathalia Melo¹; Alla Klyuyeva¹; Olga V Beliaeva¹; Natalia Kedishvili¹; Matthew Renfrow¹; Peter Prevelige¹; Venkatram Atigadda¹; Donald Muccio¹; ¹University of Alabama at Birmingham, Birmingham, AL
- TP 328 HDX-MS Unravels Allosteric Mechanisms that Sequentially Unlock the Sec Translocase for Bacterial Protein Secretion; Srinath Krishnamurthy¹; Nikolaos Eleftheriadis¹; Malvina Papanastasiou²; Athina Portaliou¹; Spyridoula Karamanou¹; Giorgos Gouridis¹; Anastassios Economou¹; ¹Rega Institute, Dept of Microbiology and Immunology, KU Leuven, Leuven, Belgium; ²Broad Institute, Cambridge, MA
- TP 329 Probing Histone Tail Interactions in Mononucleosomes by HX-ETD-Orbitrap-MS; Malvina Papanastasiou¹; Terry Zhang²; James Mullahoo¹; Samuel A. Myers¹; Steven A. Carr¹; Jacob D. Jaffe¹; **IBroad Institute, Cambridge, MA; **2Thermo Fisher Scientific, San Jose, CA
- TP 330 Pulsed Unfolding, HDX, and Digestion of APOE Proteins by Mass Spectrometry Provides Insight into Forcing the Folded Monomeric Species; Elizabeth T Schaper Bergman¹; Michael L Gross¹.²; ¹Washington University, St. Louis, MO; ²Washington University School of Medicine, St. Louis, MO
- TP 331 Covariation Analysis Reveals Functional Regions of RORy with Concerted Motions; Tim Strutzenberg; The Scripps Research Institute, Palm Beach Gardens, FL
- TP 332 Conformational Preferences for the Tec-Family Tyrosine Kinase BTK in Binding to the HIV-1 Accessory Protein Nef; Thomas E. Wales¹; Raji E. Joseph²; Shoucheng Du³; Thomas E. Smithgall³; Amy H. Andreotti²; John R. Engen¹; ¹Northeastern University, Boston, MA; ²lowa State University, Ames, IA; ³University of Pittsburgh School of Medicine, Pittsburgh, PA
- TP 333 Uncovering Differential Effects of IgG Subclasses on Whole DENV Particles with Hydrogen-Deuterium Exchange Mass Spectrometry; Xin-Xiang Lim¹; Ganesh S. Anand¹; ¹National University of Singapore, Singapore
- TP 334 A Bacterial Flavin-Dependent Oxidoreductase that Undergoes Conformational Changes to Capture Carbon Dioxide; Jenna Mattice¹; Bennett Streit¹; Luke Berry¹; John Peters²; Jennifer DuBois¹; Brian Bothner¹; ¹Montana State University, Bozeman, MT; ²Washington State University, Pullman, WA
- TP 335 Revealing the Impact of Biological Substrate and Drug Ligands on the Conformational Dynamics of the Human Serotonin Transporter Using HDX-MS; Ingvar R. Möller¹; Marika Slivacka¹; Anne Kathrine Nielsen²; Søren G.F. Rasmussen³; Ulrik Gether³; Claus J. Loland²; Kasper D. Rand¹; ¹Protein Analysis Group, Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ²Laboratory for Membrane Protein Dynamics, Department of Neuroscience, University of Copenhagen, Copenhagen, Denmark; ³Department of Neuroscience, University of Copenhagen, Copenhagen, Denmark
- TP 336 Probing Protein Ligand Interactions through an Offline MALDI-MS based Hydrogen Deuterium Exchange Study; Laxmi Sinduri Vuppala¹; Theresa Evans-Nguyen¹; Ioannis Gelis¹; John M. Koomen¹,²; ¹University of South Florida, Tampa, FL; ²Moffitt Cancer Center & Research Institute, Tampa. FL
- TP 337 HDX-MS Reveals Allosteric Changes in Subtilisin Serine Protease Upon Inhibitor Binding; Daniel W Pedersen^{1, 2}; Jeppe C Mouritsen¹; Stuart Pengelley³; Detlev Suckau³; Thomas J D Jørgensen²; Christian I Jørgensen¹; ¹Novozymes A/S, Bagsværd, Denmark; ²University of



- TP 338 Probing Copper Binding in Orange Carotenoid Protein by Using H/DX and Native Mass Spectrometry; Haijun Liu¹; Ming Cheng²; Jing Yan¹; Chunyang Guo¹; Andy Xu¹; Michael L Gross¹; Robert E Blankenship¹; ¹Washington University, St.louis, MO; ²Washington University, St Louis, MO
- TP 339 Thermodynamic Insight for the Formulation
 Optimization of a Therapeutic Antibody by HDX-MS
 Analysis and nanoDSF; <u>Yoshitomo Hamuro</u>¹; Mehabaw
 Derebe¹; Jennifer F. Nemeth-Seay¹; ¹Janssen Research and
 Development, Spring House, PA
- TP 340 Gas-Phase Hydrogen Deuterium Exchange Coupled with Dissociation of Enkephalin Variants to Investigate Exchange Mechanism; Cynthia M Suarez¹; Rebecca A Jockusch¹; ¹University of Toronto, Toronto, ON
- TP 341 Discovery and Characterization of a Synthetic Antigen Binding Fragment (sFab) Inhibiting Marburg Viral RNA Synthesis Incorporating HDX-MS Analyses;

 Nicole D. Wagner¹; Parmeshwar Amatya²; Gang Chen³;

 Priya Luthra⁴; Liuqing Shi¹; Alevtina Pavlenco³; Dominika Borek⁵; Henry Rohrs¹; Christopher F. Basler⁴; Gaya Amarasinghe²; Sachdev Sidhu³; Michael L Gross¹; Daisy Leung²; ¹Washington University, St. Louis, MO; ²Washington University School of Medicine, St. Louis, MO; ³University of Toronto, Toronto, Ontario; ⁴Georgia State University, Atlanta, GA; ⁵UT Southwestern Medical Center, Dallas, TX
- TP 342 Higher-Order Structural Analysis of Pro-Survival BAG-1S through HDX-MS; Ozge Tatli^{1, 2}; Miray Turk¹; <u>Gizem</u> <u>Dinler Doganay</u>¹; ¹Istanbul Technical University, Istanbul, Turkey: ²Istanbul Medeniyet University, Istanbul, Turkey
- TP 343 Cyclic AMP-PKA Signalosome Dynamics by HDXMS and Fluorescence Polarization Reveals Regulatory AMP Oscillations; Nikhil K Tulsian^{1, 2}; Abhijeet Ghode¹; Ganesh S Anand¹; ¹Dept. of Biological Sciences, National University of SIngapore, Singapore, Singapore; ²Dept. of Biochemistry, National University of SIngapore, Singapore

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- TP 344 Chemical Imaging of Evolving Flow Patterns Through a Porous Membrane Flow Cell via Liquid Extraction-Mass Spectrometry; Vilmos Kertesz¹; John F. Cahill¹; Scott T. Retterer¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- TP 345 Development and Application of Ambient Mass Spectrometry Images for Dermal Melamine Exposures in Melamine Tableware Manufacturing Workers;
 Yu-Ming Hsu¹; Jentaie Shiea¹.²; Ming-Tsang Wu¹.³.⁴;
 ¹Research Center for Environmental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan; ²Department of Chemistry, National Sun Yat-sen University, Kaohsiung, Taiwan; ³Department of Public Health, College of Health Sciences, Kaohsiung Medical University, Kaohsiung, Taiwan; ⁴Department of Family Medicine, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- TP 346 Investigation of Chemical Complexity and Cellular Heterogeneity of Human Pancreatic Islets Using Cross-Platform Mass Spectrometric Approach; Stanislav Rubakhin¹; Elena V. Romanova²; Jonathan V. Sweedler²; ¹Beckman Institute, UIUC, Urbana, IL; ²University of Illinois at Urbana-Champaign, Urbana, IL
- TP 347 Developing a Drug Screening Platform: MALDI-Mass Spectrometry Imaging of Paper-Based Cultures;

 Fernando Tobias¹; Gabriel J. LaBonia²; Julie McIntosh³; Matthew R. Lockett³; Amanda B. Hummon¹; ¹Department of Chemistry and Biochemistry, Comprehensive Cancer Center, The Ohio State University, Columbus, Ohio;

- ²Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, Indiana; ³Department of Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC
- TP 348 Optimisation of a Bottom-Up Strategy to Detect Biopharmaceuticals in 3D Tumour Models Using MALDI-MSI; Lucy E Flint¹; Neil A Cross¹; Laura M Cole¹; David P Smith¹; Malcolm R Clench¹; ¹Sheffield Hallam University, Sheffield, United Kingdom
- TP 349 Utilizing Formalin Fixation for Enhancing Detection of Neuropeptides from the Crustacean Brain by MALDI-MS Imaging; Nhu Q. Vu¹; Amanda R. Buchberger¹; Jillian Johnson¹; Lingjun Li¹; ¹University of Wisconsin Madison, Madison, WI
- TP 350 Identifying Biomarkers by High Throughput Screening on FFPE Breast Cancer TMAs Using DESI-MSI; Ólöf

 Gerdur Ísberg¹; Dipa Gurung¹; James McKenzie¹; Hiromi Kudo¹; Jon G Jonasson²; Sigridur Klara Bodvarsdottir³; Margret Thorsteinsdottir³; Zoltan Takats¹; ¹Imperial College, London, United Kingdom; ²Landspitali, University Hospital, Reykjavik, Iceland; ³University of Iceland, Reykjavik, Iceland
- TP 351 Click Chemistry Driven Fluorophore Addition Allows for Spatial Identification of Liposomal Drug Delivery System Components by MALDI-MSI and Fluorescence Microscopy; William Andrews; University of Notre Dame, Notre Dame; The Ohio State University, Columbus, OH
- TP 352 Mass Spectrometry Imaging of the *in situ* Drug Release from Nanocarriers; Jinjuan Xue¹; Huihui Liu¹; <u>Suming Chen²</u>; Caiqiao Xiong¹; Lingpeng Zhan¹; Jie Sun¹; Zongxiu Nie¹; ¹Institute of Chemistry, Chinese Academy of Sciences, Beijing, China; ²Wuhan University, Wuhan, China
- TP 353 A Tool to Visualize Soil Microbial Community Dynamics Using Mass Spectrometry Imaging and Confocal Microscopy; Arunima Bhattacharjee¹; Thomas W Wietsma¹; Dusan Velickovic¹; Sheryl L Bell¹; Janet K Jansson¹; Kirsten S Hofmockel¹; Christopher R Anderton¹; ¹Pacific Northwest National Laboratory, Richland, WA
- TP 354 An Elegant Approach for Broad Molecular Imaging of the Root-Soil Interface via Indirect MALDI-FTICR-MSI;

 Dusan Velickovic¹; Vivian Lin¹; Albert Rivas¹; Christopher Anderton¹; James Moran¹; ¹Biological Sciences Division, Pacific Northwest National Laboratory, Richland, WA
- The Combination of DIUTHAME-IMS/FT-ICR Conserves TP 355 High Mass Accuracy and Resolution over the **DIUTHAME-IMS/TOFMS** in the Laser Desorption/ Ionization Imaging Mass Spectrometry; Hasan Md. Mahmudul¹; Yasuhide Naito²; Masahiro Kotani³; Takayuki Ohmura³; Mamun Md. Al¹; Shumpei Sato¹; Ariful Islam¹; As m Waliullah1; Takashi K Ito1; Mitsutoshi Setou1, 4, 5; ¹International Mass Imaging Center and Department of Cellular and Molecular Anatomy, Hamamatsu University School of Medicine, Hamamatsu, Japan; ²The Graduate School for the Creation of New Photonics Industries. Hamamatsu, Japan; ³Hamamatsu Photonics K.K., Iwata, Japan; ⁴Preeminent Medical Photonics Education & Research Center, Hamamatsu, Japan; 5Department of Anatomy, The University of Hong Kong, Pokfulam, China
- TP 356 Combination of the Low Vacuum MALDI-Orbitrap Imaging with the Hydrogen/Deuterium Exchange Approach; Gleb Vladimirov¹; Yury kostyukevich¹; Eugene (evgeny) Nikolaev²; ¹Skolkovo Institute of Science and Technology, Skolkovo, Russian Federation; ²Skolkovo institute of science and technology, Moscow Region, Russian Federation
- TP 357 Direct Atmospheric Pressure Laser Desorption Ionization for Mass Spectrometry Imaging; Jing Yang¹; Wenpeng Zhang¹.²; Wenbo Cao¹; Xiaoxiao Ma¹; Zheng Ouyang¹; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department



- of Precision Instruments, Tsinghua University, Beijing, China; ²Department of Chemistry, Purdue University, West Lafayette, IN
- TP 358 Unsaturated Lipid Isomer Distribution Analysis by MALDI MS Imaging with m-CPBA Epoxidation and CID-MS/MS; Meng Xu¹; Yu Feng²; Lingjun Li^{1,2}; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; ²School of Pharmacy, University of Wisconsin-Madison, Madison, WI
- TP 359 Development of Blotting Method Using DIUTHAME for Imaging MS; Masahiro Kotani¹; Takayuki Ohmura¹; Akira Tashiro¹; Hirofumi Enomoto²; Yasuhide Naito³; ¹Hamamatsu Photonics K.K., Iwata, Japan; ²Teikyo University, Utsunomiya, Japan; ³The Graduate School for the Creation of New Photonics Industries, Hamamatsu, Japan
- TP 360 Brimstone Chemistry under Laser Light Assists Mass Spectrometric Detection and Imaging the Distribution of Arsenic in Minerals; Zhaoyu Zheng¹; Swapnil Lal²; Athula Attygalle¹; ¹Stevens Institute of Technology, Weehawken, NJ; ²Montgomery High School, Skillman, NJ
- TP 361 Optimizing the Mass Accuracy for Automated Analysis of MALDI Images; Sophie Rappe¹; Mathieu Tiquet¹; Raphaël La Rocca¹; Johann Far¹; Loïc Quinton¹; Gauthier Eppe¹; Edwin A De Pauw¹; ¹Mass Spectrometry Laboratory, MolSys Research Unit, University of Liege, Liege, Belgium
- TP 362 Optimizing Tissue Ablation for Mass Spectrometry Imaging Using Light Scattering; Achala P Deenamulla Kankanamalage¹; Fabrizio Donnaruma¹; Kermit K Murray¹; ¹Louisiana State University, Baton Rouge, LA
- TP 363 Pulsed Cold Plasma for Post Ionization in MALDI-MS imaging; Jens Soltwisch^{1, 2}; Ulrich Röhling³; Klaus Dreisewerd^{1, 2}; *Institute for Hygiene, University of Münster, Münster, Germany; *Interdisciplinary Center for Clinical Research (IZKF), University of Münster, Münster, Germany; *Institute of Medical Physics and Biophysics, University of Münster, Münster, Germany
- TP 364 Improving the Mass Range and Field of View in Ion
 Microscope Imaging Mass Spectrometry; Natasha M
 Smith¹; Fei Gao¹; Ang Guo¹; Michael Burt¹; Robert Burleigh¹;
 Mark Brouard¹; ¹University of Oxford, Oxford, United
 Kingdom

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- TP 365 Implementing Multi-modal Imaging Platform for Tissue Distribution, Metabolite Profiling and Quantification of Peptide Therapeutics; Bingming Chen¹; Marissa Vavrek¹; Wendy Zhong²; Richard Gundersdorf¹; Bernard Choi²; Scott Fauty¹; Mark Cancilla¹; ¹Merck & Co., Inc., West Point, PA; ²Merck & Co., Inc., Rahway, NJ
- TP 366 Quantitative Mass Spectrometry Imaging of Diclofenac and its Metabolites in Tissues Using Nanospray Desorption Electrospray Ionization Mass Spectrometry; Hilary Brown¹; Bingming Chen²; Mark Cancilla²; Elizabeth Pierson³; Marissa Vavrek²; Wendy Zhong³; Julia Laskin¹; ¹Purdue University, West Lafayette, IN; ²Merck & Co., Inc., West Point, PA; ³Merck & Co., Inc., Rahway, NJ
- TP 367 Investigation of Drug Localization in the Intestinal Tract Using Imaging Mass Spectrometry; Kerri Grove¹; Shaila Hoque¹; Suresh Lakshminarayana¹; Ying-Bo Chen¹; Imad Hanna²; Joe Young¹; Ujjini Manjunatha¹; Patrick Rudewicz¹; ¹Novartis Institutes for BioMedical Research, Emeryville, CA; ²Novartis, Cambridge, MA
- TP 368 Measurement of Temporal Changes in the Distribution of Imiquimod Administrated Transdermally to Mouse Skin Tissue Using Imaging Mass Spectrometry; Yuki Fukui¹; Hisanao Hazama¹; Taiki Yamasaki¹; Sayami Ito¹; Naoki Okada¹; Kunio Awazu¹; ¹Osaka University, Suita, Japan

- TP 369 The Spheroid Microarray: Pushing in vitro Drug Penetration Towards High-Throughput Technologies; Jillian Johnson¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- TP 370 Mouse Brain Drug Exposure by Imaging Mass Spectrometry and its Correlation to Whole Brain Pharmacodynamic Parameters; John Bowling¹; Alireza Abdolvahabi¹; Xiang Fu¹; Lei Yang¹; Zoran Rankovic¹; ¹St. Jude Children's Research Hospital, Memphis, TN
- TP 371 Metabolomic Studies of Amyloid Plaques in Mouse Brain with Alzheimer Disease Using Mass Spectrometry Imaging Strengthened by Image Fusion; Xiang Tian¹; Zhu Zou¹; Boer Xie²; Junmin Peng²; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK; ²St.Jude Children's Research Hospital, Memphis, TN
- TP 372 Development of a Detection Method for Antisense Oligonucleotides in Mouse Livers and Kidneys by MALDI Imaging Mass Spectrometry; Hiroyuki Yokoi¹-2; Yuuya Kasahara³; Satoshi Obika².³; Takefumi Doi²; Haruhiko Kamada³; ¹Otsuka Pharmaceutical Co., Ltd, Tokushima, Afghanistan; ²Graduate School and School of Pharmaceutical Sciences, Osaka University, Osaka, Japan; ³National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan
- TP 373 Comparative Study of Pancreatic Insulin and N-Glycans between Lean and Obese Zucker Rats by MALDI Imaging Mass Spectrometry; Bin Wang¹; Yatao Shi¹; Zihui Li²; Xudong Shi³; Nannan Tao⁴; Lingjun Li^{1, 2}; ¹School of Pharmacy, University of Wisconsin-Madison, Madison, WI 53705; ²Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ³Department of Surgery, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI; ⁴Bruker Scientific, LLC, San Jose, CA
- TP 374 MALDI-lon Mobility Mass Spectrometry Imaging for Paclitaxel Nanomedcine Distribution in Solid Tumor Tissue; Bo Wen¹; Hebao Yuan¹; Lipeng Dai¹; Krishani Rajanayake¹; Miao He¹; Manjunath Pai¹; Duxin Sun¹; ¹University of Michigan, Ann Arbor, MI
- TP 375 Different MALDI Mass Spectrometry Imaging Applications on a Prototype MALDI-Q-TOF Instrument; Janina Oetjen¹; Alice Ly¹; Ame Fuetterer¹; Juergen Suetering¹; Niels Goedecke¹; Richard R Drake²; Anand Mehta²; Michael Becker³; Rita Casadonte⁴; Jörg Kriegsmann⁴; Jens Fuchser¹; Lucy Woods¹; Oliver Raether¹; Jens Hoehndorf¹; Shannon Cornett⁵; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Medical University of South Carolina, Charleston, SC; ³Boehringer Ingelheim Pharma GmbH & Co. KG, Department of Drug Discovery Sciences, Biberach an der Riss, Germany; ⁴Proteopath, Trier, Germany; ⁵Bruker Daltonics Inc., Billerica, MA
- TP 376 ToF-SIMS Depth Profiling of Oral Drug Delivery Films for 3D Visualization and Quantification of Active Pharmaceutical Particles; Shin Muramoto¹; Greg Gillen²; Cayla Collett²; ¹, Gaithersburg, MD; ²National Institute of Standards and Technology, Gaithersburg, MD
- TP 377 in-situ Drug Release Monitoring Using Quantitative 3D Mass Spectrometry Imaging for a Drug Delivery Stent Formulation Optimization; Lauranne Poncelet^{1,2}; Rima Ait-Belkacem¹; Justine Mougin²; Mickael Maton²; Dyhia Kersani²; Bernard Martel²; Stephanie Degoutin²; Feng Chai²; Nicolas Blanchemain²; Jonathan Stauber³; *Imabiotech, Loos, France; *2Université de Lille, Lille, France; *3ImaBiotech Corp, Boston, MA
- TP 378 Gadolinium Deposition from MRI Contrast Agents in the Human Body Unraveled by MS Imaging and Speciation Analysis; Uwe Karst; University of Münster, Münster, Germany



TP 379 MALDI Imaging Studies of Cisplatin Distribution in Mouse Brain Sections; Hay-Yan J Wang^{1, 2}; Yi-Feng Dai²; Hung-Wei Yang³; Chiung-Yin Huang⁴; Kuo-Chen Wei⁴;

¹Department of Biological Sciences, National Sun Yat-sen University, Kaohsiung, Taiwan;

²Doctoral Degree Program in Marine Biotechnology, National Sun Yat-sen University and Academia Sinica, Kaohsiung, Taiwan;

³Institute of Medical Science and Technology, National Sun Yat-sen University, Kaohsiung, Taiwan;

⁴Department of Neurosurgery, Linko Chang Gung Memorial Hospital, Taoyuan City, Taiwan

IMAGING MS: SAMPLE PREPARATION 380-387

- TP 380 Keeping the Shape of Plant Tissue for Visualizing Metabolite Features of Imaging Mass Spectrometry in Asparagus officinalis; Ryo Nakabayashi¹; Kei Hashimoto¹; Kiminori Toyooka¹; Tetsuya Mori¹; Takashi Nirasawa²; Kazuki Saito¹.³; ¹RIKEN Center for Sustainable Resource Science, Yokohama, Japan; ²Bruker Japan K. K., Yokohama, Japan; ³Chiba University, Chuo-ku, Japan
- TP 381 Creating Normalcy Classifications in Human Kidney Tissue via LC-MS/MS Proteomic Analysis for 3-D Molecular Imaging; Jamie Allen^{1, 2}; Danielle Gutierrez^{1, 2}; Maya Brewer³; Nathan Heath Patterson^{1, 2}; Raf Van de Plas^{1, 2, 4}; Mark Decaestecker³; Raymond C Harris³; Agnes B Fogo⁵; Richard M. Caprioli^{1, 2, 6}; Jeffrey Spraggins^{1, 2, 6};

 ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Vanderbilt University Department of Biochemistry, Nashville, TN; ³Vanderbilt University Medical Center, Department of Medicine, Nashville, TN; ⁴Delft University of Technology, Delft, Netherlands; ⁵Vanderbilt University Medical Center Department of Pathology, Microbiology and Immunology, Nashville, TN; ⁶Vanderbilt University Department of Chemistry, Nashville, TN
- TP 382 Understanding and Decreasing Visceral Fat Delocalisation in Imaging Mass Spectrometry;
 Frédéric Fournelle¹; Ethan Yang¹; Martin Dufresne²; Pierre Chaurand¹; ¹University of Montreal, Montreal, QC; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN
- TP 383 Comprehensive Evaluation of Zinc Oxide Nanoparticles as Matrix for MALDI MS Tissue Imaging of Metabolites; Chaochao Chen¹; Ken K.-C. Yeung¹; ¹University of Western Ontario, London, ON
- TP 384 Development of Sample Preparation Method to Improve Sensitivity and Reproducibility of Mass Spectrometry Imaging of Endogenous Metabolites; Tomomi Morikawa-Ichinose¹; Yoshinori Fujimura¹; Fusa Murayama¹; Yuzo Yamazaki²; Takushi Yamamoto²; Hiroyuki Wariishi¹; Daisuke Miura¹.³; ¹Kyushu University, Fukuoka, Japan; ²Shimadzu corp., Kyoto, Japan; ³National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan
- TP 385 MALDI Imaging of Ocular Lens Cytoskeletal Proteins; Zhen Wang¹; Daniel J Ryan¹; Kevin L Schey¹; ¹Vanderbilt University, Nashville, TN
- TP 386 Combining Mass Spectrometry Imaging and Top-Down Proteomics to Predict Immunotherapy Response in Non-Small-Cell Lung Cancer (NSCLC) Patients; Eline Berghmans^{1, 2}; Karin Schildermans^{1, 2}; Kurt Boonen^{1, 2}; Patrick Pauwels³; Geert Baggerman^{1, 2}; †Centre for Proteomics (University of Antwerp/VITO (Belgium)), Antwerpen, Belgium; *Unit Enviromental Risk & Health, VITO, Mol, Belgium; *Department of Pathology, Antwerp University Hospital, Edegem, Belgium
- TP 387 Biomarker Discovery for Radiation-Induced Lung Injury by Matrix Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging (MALDI-MSI) Using Formalin-Fixed Paraffin-Embedded Tissues; Ning Pan Bernhardt¹; Maureen A Kane¹; **Iuniversity of Maryland Baltimore School of Pharmacy, Baltimore, MD

IMAGING MS: SMALL MOLECULES 388-407

- TP 388 Spatial Lipidomics Reveals Altered Lipid Profiles in Glomeruli of Human Diabetic Kidney; Guanshi Zhang¹.

 ²; Dušan Veličković³; Viktor Drel¹.²; Sanjay Jain⁴; Shweta Bansal¹.²; Manjeri A. Venkatachalam¹; Hongping Ye¹; Madesh Muniswamy¹; Xianlin Han¹; Ljiljana Paša-Tolić³; Theodore Alexandrov⁵.⁶; Christopher Anderton³; Kumar Sharma¹.²; ¹University of Texas Health-San Antonio, San Antonio, TX; ²South Texas Veterans Health Care System, San Antonio, TX; ³Pacific Northwest National Laboratory, Richland, WA; ⁴Washington University, St. Louis, MO; ⁵European Molecular Biology Laboratory, Heidelberg, Germany; ⁵University of California San Diego, La Jolla, CA
- TP 389 Development of Bimetallic Nanoparticles for Surface-Assisted Laser Desorption/Ionisation Mass Spectrometry Imaging of Small Molecules; Alexandre Verdin¹; Cédric Malherbe¹; Virginie Bertrand¹; Edwin De Pauw¹; Gauthier Eppe¹; ¹University of Liege, MS Lab GIGA, MolSys Research Unit, Liege, Belgium
- TP 390 A Combination of Unroofing and Chemical Fixation Enable TOF-SIMS to Observe the Intracellular Fatty Acid Distribution; Makoto Horikawa^{1,2}; Shiro Takei³; Chi Zhang¹; Setou Mitsutoshi¹.²; ¹Department of Cellular & Molecular Anatomy, Hamamatsu University School of Medicine, Hamamatsu, Japan; ²International Mass Imaging Center, Hamamatsu University School of Medicine, Hamamatsu, Japan; ³Department of Environmental Biology, College of Bioscience and Biotechnology, Chubu University, Kasugai,
- TP 391 Subcellular Imaging of Cardiolipin and Phosphatidylethanolamine Using GCIB-ToF-SIMS: L.j. Sparvero^{1, 2}; Hua Tian³; Andrew Amoscato^{1, 2}; Simon Watkins⁴; Nicholas Winograd³; Valerian Kagan^{1, 2, 5, 6}; Hülya Bayır^{1, 2, 7}; ¹University of Pittsburgh -- EOH Department, Pittsburgh, PA; 2Center for Free Radical and Antioxidant Health, Pittsburgh, PA; 3Pennsylvania State University --Chemistry Department, University Park, PA: 4University of Pittsburgh -- Departments of Cell Biology and Immunology, Pittsburgh, PA; 5University of Pittsburgh, Departments of Chemistry, Pharmacology and Chemical Biology, Radiation Oncology, Pittsburgh, PA; 6Lab of Navigational Redox Lipidomics, IM Sechenov Moscow State Medical University, Moscow, Russia; 7University of Pittsburgh -- Department of Critical Care Medicine and Safar Center for Resuscitation Research, Pittsburgh, PA
- TP 392 High Speed, High Lateral Resolution Lipid Imaging in a MALDI-Q-TOF; Janina Oetjen¹; Arne Fuetterer¹; Juergen Suetering¹; Niels Goedecke¹; Sören-Oliver Deininger¹; Lucy Woods¹; Oliver Raether¹; Jens Hoehndorf¹; Shannon Cornett²; Jens Fuchser¹; Nikolas Kessler¹; Heiko Neuweger¹; Alice Ly¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Daltonics Inc., Billerica, MA
- TP 393 Embryo Transfer Change the Spatiotemporal Lipid Signaling during the Early Stage Embryogenesis;

 Stefania Gitta¹; Janos Schmidt¹; Laszlo Mark¹; ¹Institute of Biochemistry and Medical Chemistry, University of Pecs, Pecs, Hungary
- TP 394 Mapping Lipids in Whole-Body Zebrafish Sections
 Using IR-MALDESI; Whitney L Stutts¹; Megan M Knuth¹;
 Måns Ekelöf¹; Debabrata Mahapatra¹; Seth W Kullman¹;
 David C Muddiman¹; ¹North Carolina State University,
 Raleigh, NC
- TP 395 Analysis of Cuttlefish Skin Chromatophores Using a Combination of High Resolution 3D-LDI-MS-Imaging and LC-UV-MS; Jakob Meier-Credo^{1, 2}; Jessica S. Eberle²; Marcel A. Lauterbach²; Sam Reiter²; Gilles Laurent²; Julian D. Langer^{1, 2}; ¹MPI for Biophysics, Frankfurt Am Main, Germany; ²Max Planck Institute for Brain Research, Frankfurt am Main, Germany



- TP 396 Spatial Distribution of Endogenous Molecules in Coffee Bean by Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging;

 Honggang Nie¹; Chenglong Dong²; Yehua Han²; Huwei Liu¹;

 ¹Beijing National Laboratory for Molecular Sciences, Peking University, Beijing, China; ²State Key Laboratory of Heavy Oil Processing, China University of Petroleum, Beijing, China
- TP 397 Mass Spectrometry Imaging of Dichloroacetate for Evaluating the Effects of Thermoembolization in-vivo with CT Correlation; Dodge Baluya¹; Chunxiao Guo¹; Elizabeth Whitley¹; Erik Cressman¹; ¹UT MD Anderson, Houston. TX
- TP 398 MALDI Imaging of Anti Tuberculosis Drugs with High Mass and Spatial Resolution in Mouse Model Tissue; Axel Treu¹; Julia Kokesch-Himmelreich¹; Kerstin Walter²; Christoph Hölscher²; Andreas Römpp¹; ¹University of Bayreuth, Bayreuth, Germany; ²Research Center Borstel, Borstel, Germany
- TP 399 Multimodal Analysis through Mass Spectrometry Imaging and Multi-energy Tomography Using Cesium as an Integrative Marker; Dodge Baluya; Emily A.
 Thompson'; Megan C. Jacobsen'; Rick R. Layman'; <a href="Elizabeth Whitley"; Erik Cressman; Images/Images/MD Anderson Cancer Center, Houston, TX
- TP 400 High-Resolution Nano-DESI Mass Spectrometry Imaging for Skeletal Muscle Fiber Analysis; <u>Daisy M Unsihuay Vila</u>¹; Feng Yue²; Jiamin Qiu²; Shihuan Kuang²; Ruichuan Yin¹; Julia Laskin¹; 'Department of Chemistry, Purdue University, West Lafayette, IN 47907; 'Department of Animal Sciences, Purdue University, 901W State Street, West lafayette, IN
- TP 401 Quantitative Mass Spectrometry Imaging of Eicosanoids Provides Novel Biological Insights into Premature Birth; Kyle D. Duncan¹; Wenbo Deng²; Xiaofei Sun²; Lisa M. Bramer³; Bobbie-jo M. Webb-robertson³; Jennifer Kyle³; Erin S. Baker⁴; Kristin E. Burnum-Johnson³; Sudhansu K. Dey²; Ingela Lanekoff¹; ¹Uppsala University, Uppsala, Sweden; ²Division of Reproductive Sciences, Cincinnati Children's Hospital Medical Center, Cincinnati, OH; ³Biological Sciences Division, Pacific Northwest National Laboratory, Richland, WA; ⁴Department of Chemistry, North Carolina State University, Raleigh, NC
- TP 402 Quantitative Imaging Mass Spectrometry of Endogenous Metabolites Using In-Line Internal Standards and Stable Isotope Labeled Mimetic Model; Bindesh Shrestha¹; Khaja Muneeruddin²; Scott A Shaffer²; ¹Waters Corp., Beverly, MA; ²University of Massachusetts Medical School, Worcester, MA
- TP 403 MALDI Imaging Mass Spectrometry as a Tool to Evaluate Levels of ATP and its Metabolites in Mouse Tumor Models; Stephanie Dale¹; Cristine Quiason-Huynh²;

 ¹Genentech, South San Francisco, CA; ²Genentech, Inc.,
 South San Francisco, CA
- TP 404 Prospect of Using Small Molecules Based Highresolution DESI-QTOF-MS Imaging as a Direct Analysis
 Method of Classifying CNS Tumors in Diagnostics;
 Lei Wang¹; Xu Ma¹; Chunyan Lan¹.²; Hainan Li³; Linbo
 Cai³; Xiaofei Jia⁴; Huiqin Zhong⁴; ¹National Center for
 Human Genetic Resources, National Research Institute for
 Health and Family Planning, Beijing, China; ²Peking Union
 Medical College Graduate School, Beijing, China; ³Guang
 Dong San Jiu Brain Hospital, Guangzhou, China; ⁴Waters
 Technologies (Shanghai) Co, Ltd, Shanghai, China
- TP 405 Visualization of the Distribution of Small Molecule in Pig-to-Nonhuman Primate Islet Xenotransplantation Model by MALDI-MRMS Imaging; Jong Bok Seo¹; Eui-Gil Jung¹; Hee-Jung Kim¹; Shin Kwon Kang²; JinNyoung Choi²; 'Korea Basic Science Institute, Seoul, South Korea; 'Bruker Korea Co., Ltd, Seongnam-si, South Korea

- TP 406 Imaging of Neurotransmitters Using AuNPs with Laser-Desorption Ionization Mass Spectrometry; Nolan K McLaughlin¹; Kate Stumpo¹; ¹University of Scranton, Scranton PA
- TP 407 Rearrangement of TMS and t-BDMS of Halogenated Saturated Aliphatic Alcohols in El Mass Spectra;

 Quan-long Pu¹; Yufang Zheng¹; Stephen stein¹; ¹N/ST,
 Gaithersburg, MD

IMAGING MS: SOFTWARE 408-415

- TP 408 Next-Generation Software for Visualization and Computational Analysis of High-performance Ion Mobility Molecular Imaging Data; Lukasz Migas¹; Jeffrey M. Spraggins².³; Richard M. Caprioli².³; Perdita E. Barran⁴. ⁵; Raf Van de Plas¹.³; ¹Delft University of Technology, Delft, Netherlands; ²Vanderbilt University, Nashville, TN; ³Vanderbilt Mass Spectrometry Research Center and Department of Biochemistry, Nashville, TN; ⁴University of Manchester, Manchester, United Kingdom; ⁵Manchester Institute of Biotechnology, University of Manchester, United Kingdom
- TP 409 Automatic Molecular Annotation of Mass Spectrometry Imaging Data; Jan H. Kobarg¹; Nikolas Kessler²; Wiebke Timm²; Janina Oetjen²; Klaus Steinhorst¹; Stefan Schiffler¹; Shannon Cornett³; Aiko Barsch²; Heiko Neuweger²; Alice Ly²; Dennis Trede¹; ¹SCiLS, Bremen, Germany; ²Bruker Daltonik GmbH, Bremen, Germany; ³Bruker Daltonics Inc., Billerica, MA
- TP 410 Artificial Intelligence to Support Mass Spectrometry Imaging Analysis in Drug Discovery; Ait-Belkacem Rima¹; Fabien Pamelard¹; Lauranne Poncelet¹; Beuque Manon¹; Gael Picard de Muller¹; David Bonnel¹; Jonathan Stauber²; ¹Imabiotech, Loos, France; ²ImaBiotech Corp, Boston, MA01821
- TP 411 R/Python Application Programming Interface for MSI Statistical Analysis: Tumor Micro Environment Case Study; Rima Ait-Belkacem¹; Fabien Pamelard¹; Gael Picard de Muller¹; Lauranne Poncelet¹; <u>David Bonnel</u>¹; Jonathan Stauber²; ¹Imabiotech, Loos, France; ²ImaBiotech Corp, Boston. MA01821
- TP 412 Reliable and Common Quantitative Color Scale to Evaluate at the Same Time Different Molecular Images in QMSI; Rima Ait-Belkacem¹; Fabien Pamelard¹; Jordan Lerach²; Raphael Legouffe¹; David Bonnel¹; Jonathan Stauber²; ¹Imabiotech, Loos, France; ²ImaBiotech Corp, Boston, MA01821
- TP 413 Longitudinal Quality Study of MSI PLatform for Pre-Clinical and Clinical Studies; Rima Ait-Belkacem¹; Fabien Pamelard¹; Gael Picard de Muller¹; Lauranne Poncelet¹; David Bonnel¹; Jonathan Stauber²; ¹Imabiotech, Loos, France; ²ImaBiotech Corp, Boston, MA01821
- TP 414 A Proposed Software Method of Automatic Tissue Region Selection for Mass-Spectrometry Imaging Acquisition and Data Analysis; Lei Wang¹; Chunyan Lan¹²; Xu Ma¹; National Center for Human Genetic Resources, National Research Institute for Health and Family Planning, Beijing, China; Peking Union Medical College Graduate School, Beijing, China
- TP 415 "Data Station One": An Open Source, Modular Platform for Custom Imaging Mass Spectrometer Systems;

 Matthew Brantley¹; Touradj Solouki¹; ¹Baylor University,
 Waco, TX



- TP 416 Mass-Spectrometry-Based Omics Technology to Reveal the Effect of Herbal Decoction in Cultured Osteoblasts; Kwan Kin Leung¹; Wong Tin Yan²; Yu Xiao Dan¹; Leung Ka Wing¹; Dong Tina Tingxia¹; Lam Henry Hei Ning²; Tsim Karl Wah Keung¹; ¹Division of Life Science, Center for Chinese Medicine, Hong Kong university of science and technology, Sai Kung, China; ²Department of Chemical & Biological Engineering, Hong Kong university of science and technology, Sai Kung, China
- TP 417 LC-MS Based Multi-Omics Study on the Impact of Cysteine Feed on CHO Bioprocess mAb Titer, Specific Productivity and Product Quality; Amr S Ali^{1, 2}; Alan Gilbert¹; Rashmi Kshirsagar¹; Alexander R Ivanov²; Li Zang¹; Barry L Karger²; **IBiogen, Cambridge, MA; **Northeastern University, Boston, MA**
- TP 418 Global High Resolution Mapping of Organellar Proteomic and Transcriptomic Correlation Profiles;

 Mohamed A.W. Elzek¹; Eneko Villanueva¹; Tom S Smith¹;

 Rayner Queiroz¹; Kathryn Lilley¹; ¹University of Cambridge, Cambridge, United Kingdom
- TP 419 MMCA: A Web-Based Server for Microbiome and Metabolome Correlation Analysis; Yan Ni¹; Mingming Su²; Yongqiong Deng³; Tianlu Chen⁴; Xiaojiao Zheng⁴; Wei Jia⁵; ¹The Children's Hospital, Zhejiang University School of Medicine, Hangzhou, China; ²Metabo-Profile biotechnology, Shanghai Co., Ltd., Shanghai, China; ³Department of dermatology & STD, the Affiliated Hospital of Southwest Medical University, Luzhou, China; ⁴Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai, China; ⁵University of hawaii Cancer Center, Honolulu, Hawaii
- TP 420 Development of a Fast Open Source Proteogenomics
 Pipeline ProteoAnnotator2; Da Qi¹; Andrew R. Jones²;
 Jeyan Thiyagalingam²; Fawaz Ghali³; ¹BGl-Shenzhen,
 Shenzhen, China; ²University of Liverpool, Liverpool, United
 Kingdom; ³Manchester Metropolitan University, Manchester,
 United Kingdom
- TP 421 Multi-omic Dissection of Oncogenically Active
 Epiproteomes Identifies Drivers of Invasive Breast
 Tumors; John A Wrobel¹; Ling Xie¹; Li Wang¹; Jian Jin²;
 Xian Chen¹; ¹University of North Carolina, Chapel Hill, NC;
 ²Icahn School of Medicine at Mount Sinai, New York, NY
- TP 422 PROTEOFORMER: Novel Developments in the Ribosome Profiling-Assisted Proteogenomic Hunt for New Proteoforms; Steven Verbruggen¹; Wim Van Criekinge¹; Siegfried Gessulat²; Bernhard Kuster²; Mathias Wilhelm²; Petra Van Damme³, ⁴; Gerben Menschaert¹; ¹Ghent University, BioBix, Lab of Bioinformatics and Computational Genomics, Department of Mathematical Modelling, Statistics and Bioinformatics, Ghent, Belgium, Gent, Belgium; ²Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; ³Department of Biochemistry, Faculty of Health Sciences, Ghent University, Ghent, Belgium, Gent, Belgium, Gent, Belgium, Gent, Belgium, Gent, Belgium, Gent, Belgium, Gent, Belgium
- TP 423 A Mass Spectrometry Approach to Investigate the Role of EZH2 in Chromatin Remodeling, Cell Proliferation and Tumorigenesis; Miranda L. Gardner¹; Michael A. Freitas¹; ¹The Ohio State University, Columbus, OH
- TP 424 Omni-MS: A Method for Concurrent LC-MS Analysis of Electrolytes, Small Molecules, Lipids, Proteins, Nucleic Acids, and Polysaccharides; Austin Quach¹; Brett Lomenick¹; Alex J. Yoon¹; Whitaker Cohn¹; Julian P. Whitelegge¹; Kym F. Faull¹; ¹University of California Los Angeles. Los Angeles. CA

- TP 425 Phosphoproteomics Data Combined with Transcriptomics and Epigenomics Helps to Identify New Drug Targets against Methotrexate Resistance of Colon Cancer; Alexander Kel¹; Philip Stegmaier¹; Olga Kel-Margoulis¹; **igeneXplain GmbH, Wolfenbuettel, Germany
- TP 426 Integrative Personalized Omics Profiling in Response to Acute Exercise in Healthy and Prediabetic Individuals; Kevin Contrepois¹; Kegan Moneghetti²; Si Wu²; Sara Ahadi²; Daniel Hornburg²; Eric Wey²; Ming-Shian Tsai²; Jeffrey W Christle²; Francois Haddad²; Michael Snyder²; ¹Stanford University, Stanford; ²Stanford University, Palo Alto. CA
- TP 427 An Integrated Experimental and Computational Approach for the Characterization of Proteins of Unknown Function (PUFs) in Clostridium thermocellum DSM 1313; Suresh Poudel¹; Alex Cope^{1, 2}; Kaela O'Dell^{1, 3}; Adam M Guss²; Robert L. Hettich^{2, 4}; ¹University of Tennessee, Knoxville, TN; ²Oak Ridge National Laboratory, Oak Ridge, TN; ³Oak Ridge National Laboratory, Oak Ridge, Tennessee; ⁴University of Tennessee, Knoxville, Knoxville, TN
- TP 428 Conotoxin Exploitation from Conus betulinus Using an Integrated Approach of Transcriptomic and Peptidomics; He yanbin¹; Lin zhilong¹; Luo Xing¹; Ren zhe¹; Roy Bhaskar¹; Qi Da¹; Liu Siqi¹; ¹BGI-Shenzhen, Shenzhen, China
- TP 429 Meta-analysis of Public Proteomics Datasets Supports the Evaluation of Cancer Cell Lines as Tumour Models and Improves Drug Sensitivity Prediction; Andrew F. Jarnuczak¹; Hanna Najgebauer¹; Mitra P Barzine¹; Deepti Jaiswal Kundu¹; Fatemeh Zamanzad Ghavidel²; Yasset Perez-Riverol¹; Irene Papatheodorou¹; Alvis Brazma¹; Juan Antonio Vizcaíno¹; ¹EMBL-EBI, Cambridge, United Kingdom; ²University of Bergen, Bergen, Norway
- TP 430 DeepRibo: Precise Gene Annotation of Prokaryotes
 Using Deep Learning and Ribosome Profiling
 Data, Validated with Mass Spectrometry Data; Jim
 Clauwaert¹; Gerben Menschaert²; Willem Waegeman¹;
 ¹KERMIT, Department of Data Analysis and Mathematical
 Modelling, Ghent University, Gent, Belgium; ²BioBix, Lab of
 Bioinformatics and Computational Genomics, Department
 of Mathematical Modelling, Statistics and Bioinformatics,
 GENT. Belgium
- TP 431 Proteogenomics Pipeline for Discovery of Genetically Variable Peptides in Humans; Myles W. Gardner¹; August E. Woerner²; Michael A. Freitas³; Nicolette C. Albright¹; Alan R. Smith¹; F. Curtis Hewitt¹; ¹Signature Science, LLC, Austin, TX; ²Center for Human Identification, University of North Texas Health Science Center, Fort Worth, TX; ³The Ohio State University, Columbus, OH
- TP 432 A Multi-Omics Approach to Linking Proteomic Profiles and Metabolomic Phenotypes Provides Insight into Colorectal Cancer Cell Metabolism; Peter Doubleday¹; Ioanna Ntai²; Luca Fornelli³; Emily Boja⁴; Henry Rodriguez⁴; Neil L Kelleher¹; ¹Northwestern University, Evanston; ²Thermo Fisher Scientific, San Jose, CA; ³The University of Oklahoma, Norman, OK; ⁴Office of Cancer Clinical Proteomics Research, NIH, Bethesda, MD
- TP 433 Non-Ribosomal Peptide Antibiotic Discovery in Microbial Communities via Integration of Computational Metagenomics and Mass Spectrometry; Bahar Behsaz¹; Alexey Gurevich²; Rob Knight³; Pieter Dorrestein¹; Pavel A. Pevzner³; Hosein Mohimani⁴; ¹University of California San Diego, La Jolla, CA; ²St. Petersburg State University, St. Petersburg, Russia; ³University of California, San Diego, La Jolla, CA; ⁴Carnegie Mellon University, Pittsburgh, PA
- TP 434 Evaluating Machine Learning Methods Capable of Handling Missing Values for Protein Biomarker Studies;

 David Nusinow¹; John Szpyt¹; Steven P Gygi¹; 'Harvard Medical School, Boston, MA



- TP 435 imetaQuantome Workflow: An Integrated Metaproteomics Workflow for Interactive, Statistical and Functional Microbiome Analysis; Subina Mehta¹; Ray Sajulga¹; Caleb W Easterly¹; Francesco Delogu²; Benoit J Kunath²; Praveen Kumar¹; Marie Crane³; Emma Leith¹; James E. Johnson¹; Thomas McGowan¹; Joel Rudney¹; Phil B Pope²; Magnus Ø Arntzen²; Timothy J. Griffin¹; Pratik D Jagtap¹; ¹University of Minnesota, Minneapolis, MN; ²NMBU Norwegian University of Life Sciences, Ås, Norway; ³Macalester College, Saint Paul, MN
- TP 436 Integration of Metabolomic and Lipidomic Workflows for Studying Clinical and Biological Systems; Adriana Zardini Buzatto¹; Shuang Zhao¹; Ulrike Schweiger Hufnagel²; Aiko Barsch²; Liang Li¹; ¹University of Alberta, Edmonton, AB; ²Bruker Daltonik GmbH, Bremen, Germany
- TP 437 pmartR: Software for Quality Control and Statistics Robust to Missing Data for Mass Spectrometry-Based Biological Data; Lisa Bramer¹; Kelly G. Stratton¹; Bobbie-jo M. Webb-robertson¹; Lee Ann McCue¹; Bryan Stanfill¹; Daniel Claborne¹; Allison M. Thompson¹; Iobani Godinez¹; ¹Pacific Northwest National Laboratory, Richland, WA
- TP 438 **Metaproteomics Powered By** Metatranscriptomics:Towards a Multi-Omic Functional Microbiome Analysis; Pratik Dilip Jagtap1; Praveen Kumar¹; Francesco Delogu²; Benoit J Kunath²; Sujun Li³; Marie Crane⁴; Subina Mehta¹; Ray Sajulga¹; Emma Leith1; James E. Johnson5; Yuzhen Ye3; Berenice Batut6; Haixu Tang³; Phil B Pope²; Magnus Ø Arntzen²; Timothy Griffin¹; ¹University of Minnesota, Minneapolis, MN; ²Faculty of Chemistry, Biotechnology and Food Science, NMBU, As, Norway; 3School of Informatics, Computing, and Engineering, Indiana University, Bloomington, IN; 4Macalester College, Saint Paul, MN; 5Minnesota Supercomputing Institute, University of Minnesota, Minneapolis, MN; 6Bioinformatics Group, University of Freiburg, Freiburg, Germany
- TP 439 Integrated Omics Analysis Across 32 Human Tissues;
 Lihua Jiang¹; Meng Wang²; Shin Lin³; Ruiqi Jian²; Joanne
 Chan²; Xiao Li²; Huaying Fang²; Hua Tang²; Michael
 Snyder²; ¹Stanford University, Stanford, CA; ²Stanford
 University, Palo Alto, CA; ³University of Washington, Seattle,
 WA
- TP 440 SysMet: A Tool for Integrative Systems Metabolomics; Mohammad R Nezami Ranjbar¹; Ziling Fan¹; Yan Gao¹; Habtom W Ressom¹; ¹OmicsCraft LLC, Washington, DC

INSTRUMENTATION: MINI/PORTABLE/FIELDABLE MS 441-457

- TP 441 A Mini Quadrupole Mass Spectrometer with a Continuous Atmospheric Pressure Interface; Ranran

 <u>Liu; Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China</u>
- TP 442 MOMA Mass Spectrometer Laser Desorption Ionization Investigation of Spiked Mineral Samples for ExoMars Mission Planning; Friso h.w. Van amerom¹; Marco Castillo²; Xiang Li²; Ryan Danell³; Desmond Kaplan⁴; Eric I. Lyness⁵; Stephanie A. Getty⁰; Andrej Grubisic⁰; William B. Brinckerhoff⁰; Paul R. Mahaffy⁰; ¹Mini-Mass Consulting, Inc, Hyattsville, MD; ²University of Maryland, Baltimore, MD; ³Danell Consulting, Inc., Winterville, NC; ⁴Kapscience, LLC, Tewksbury, MA; ⁵Microtel-LLC, Greenbelt, MD; ⁵NASA Goddard Space Flight Center, Greenbelt, MD
- TP 443 Development of the Advanced Resolution Organic Molecular Analyzer (AROMA); Adrian Southard¹; Emanuel Hernandez²; Ryan Danell³; Cynthia Gundersen⁴; Lars Hovmand⁵; Andrej Grubisic²; Ricardo Arevalo⁶; ¹Universities Space Research Association, Greenbelt, MD; ²NASA Goddard Space Flight Center, Greenbelt, MD; ³Danell Consulting, Inc., Winterville, NC; ⁴ADNET System, Inc.,

- Bethesda, MD; ⁵Linear labs, Washington, DC; ⁶University of Maryland, College Park, MD
- TP 444 Calibration Drift and Maintaining Requirements in Harsh Environmental Conditions with the Mars Organic Molecule Analyzer (MOMA) Mass Spectrometer; Ryan M. Danell¹; Andrej Grubisic²; Veronica Pinnick²; Desmond A. Kaplan³; Friso Van Amerom⁴; Stephanie A. Getty²; William B. Brinckerhoff²; ¹Danell Consulting, Inc., Winterville, NC; ²NASA Goddard Space Flight Center, Greenbelt, MD; ³KapScience LLC, Tewksbury, MA; ⁴Mini-Mass Consulting, Inc, Hyattsville, MD
- TP 445 A Handheld Mass Spectrometer for In-Field and POC Analysis; Bin Jiao¹; Xinwei Liu¹; Jiexun Bu²; Ningxi Li¹; Zheng Ouyang¹; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instrument, Tsinghua University, Beijing, China; ²PURSPEC Technologies Inc., Beijing, China
- TP 446 Development of a Miniature GC-MS Instrument for Fieldable Applications; Vladimir M. Doroshenko¹; Victor Laiko¹; Eugene Moskovets¹; Konstantin Novoselov¹; Tzu-Hsuan Chang²; Daniel Struk²; Jean-Marie D. Dimandja²; Milad Navaei²; Peter J. Hesketh²; ¹MassTech, Inc., Columbia, MD; ²Georgia Institute of Technology, Atlanta, GA
- TP 447 3D Real Time Monitoring of Unintended Concentration of H2/Air in FCV Applications; Takashi Nohmi^{1, 2}; Toshio Mogi²; ¹HysafeNohmi, Setagaya-Ku, Japan; ²The University of Tokyo, Bunkyo, Japan
- TP 448 The Development of Miniature MALDI Digital Ion Trap Mass Spectrometer; Kosuke Hosoi¹; Masaji Furuta¹; Hideharu Shichi¹; Shosei Yamauchi¹; Kiyoshi Watanabe¹; Makoto Hazama¹; Kei Kodera¹; Shinichi Iwamoto¹; Koichi Tanaka¹; ¹Shimadzu Corporation, Kyoto, Japan
- TP 449 The Effects of Electrode Misalignment on the Performance of a Linear Wire Ion Trap; Radhya W.

 Gamage¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT
- TP 450 Profiling Agrochemical Residues in Produce via Paper Cone Spray Ionization and Portable Instrumentation;

 <u>Alyssa J. Gasa</u>¹; Makoy R. Overfelt¹; Christopher Mulligan²;

 ¹Illinois state university, Normal, IL; ²Illinois State University, Normal. IL
- TP 451 Method to Improve the Higher Pressure Operation
 Characteristics of Microchannel Plate Detectors, and
 Its Effect on Performance of Miniature MS; Masahiro
 Hayashi; Hamamatsu Photonics K.K., Iwata, Japan
- TP 452 Microscale Linear Ion Trap Mass Spectrometer; Trevor Decker¹; Yajun Zheng²; Aaron Ruben¹; Xiao Wang³; Stephen Lammert³; Aaron Hawkins¹; <u>Daniel Austin</u>¹; ¹Brigham Young University, Provo, UT; ²Xi'an Shiyou University, Xi'an, China; ³PerkinElmer Health Sciences Inc., American Fork, UT
- TP 453 Development of a Flexible GC Transfer Line for a Field-Deployable GC-EI/MS; Steffen Bräkling¹; Kai Kroll¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of Wuppertal, Wuppertal, Germany
- TP 454 Development of Micro-Time-of-Flight Mass Spectrometer for in situ Gas Analysis; Alex Sonnette¹; Frederic Progent²; Jerome Tupinier²; Pierre-Etienne Buthier²; Jean-Christophe Lictevout²; Sébastien Vigne²; Thomas Alava³; ¹CEA, Arpajon, France; ²CEA, Arpajon, France; ³CEA, Grenoble, France
- TP 455 A Mixed Computational Fluid Dynamics and Direct Simulation Monte Carlo model of the Intermediate Pressure Regions of a Miniature ESI-MS; Edward Crichton¹; Rantej S Kler¹; Richard W Moseley¹; ¹Microsaic Systems. Woking. United Kingdom
- TP 456 Evaluation of a Portable GC-MS Equipped with a Planar-LTM Column for Chemical and Riot Control Agent Screening Applications; Zachary E Lawton¹; Thomas Saul²; Evan Durnal³; Sara Paalhar³; Becky Stilley³; Nathan



- Doll³; ¹PerkinElmer, Shelton, CT; ²Smiths Detection, Edgewood, MD; ³MRIGlobal, Kansas City, MO
- TP 457 Fieldable Atmospheric Pressure Ion Mobility Linear Ion Trap Mass Spectrometer for On-site Chemical Identification; Greg Brabeck¹; Mark Osgood¹; Tomás F Gutierrez¹; Eugenie Hainsworth¹; Marina Loginowski¹; Ching Wu¹; ¹Excellims Corporation, Acton, Massachusetts

INSTRUMENTATION: NEW DEVELOPMENTS IN ION DETECTION 458-496

- TP 458 Development of MCP+AD Detector for Q-TOF Called MIGHTION with a Large 42 mm Effective Area and Bipolar Ion Detection; Hiroshi Kobayashi¹; Sayaka Takatsuka¹; ¹HAMAMATSU PHOTONICS K.K., Iwata, Japan
- TP 459 Development of Lead-Free Channel Electron Multiplier Named CERARION that Achieves Over 100 uA DC Output; Takeshi Endo¹; Hiroshi Kobayashi¹; Kengo Watase¹; hayato inoue¹; ¹HAMAMATSU PHOTONICS K.K., Iwata, Japan
- TP 460 Peak Amplitude vs. Peak Area: Which Better Measures Charge in CDMS?; Jiuzhi Gao¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT
- TP 461 Deconvolution of Complex Protein Mixtures Using Orbitrap-Based Charge Detection Mass Spectrometry; Jared O. Kafader¹; Rafael D. Melani¹; Bryan P. Early¹; Kenneth R. Durbin¹; Benjamin Soye¹; Mike W. Senko²; Vlad Zambouskov²; Alexander A Makarov³; Joshua T. Maze⁴; Deven L. Shinholt⁴; Steven Beu⁵; Neil L Kelleher¹; Philip D. Compton¹; ¹Northwestern University, Evanston, IL; ²Thermo Fisher Scientific, Bremen, Germany; ⁴Thermo Fisher Scientific, Austin, TX; ⁵S.C. Beu Consulting, Austin, TX
- TP 462 Development of an α-particle and TOF Ion Detector for Precise Measurements of Atomic Mass of Superheavy Nuclei; Toby Shanley¹; Wayne Sheils¹; Michiharu Wada²; Toshitaka Niwase². ³; Yair Benari¹; Hermann Wollnik⁴; Peter Schury²; ¹ETP Ion Detect, Sydney, Australia; ²KEK, High Energy Research Accelerator Organisation, Hirasawa, Japan; ³Kyushu University, Fukuoka, Japan; ⁴New Mexico State University, Las Cruces, NM
- TP 463 Sub-Nanosecond, Stable and Long-Lifetime Detector for TOF Applications; Jonathan Garel¹; Semyon Shofman¹; Amit Weingarten¹; Sasha kadyshevitch¹; Eli Cheifetz¹; ¹El-Mul Technologies, Rehovot, Israel
- TP 464 Negative Electron Affinity Material for Increased Ion Detection Sensitivity in Electron Multipliers; Toby Shanley¹; Wayne Sheils¹; ¹ETP Ion Detect, Sydney, Australia
- TP 465 Paper Spray Ionization Mass Spectrometry of Sebum Samples: A Step Towards Rapid, Early Diagnosis of Parkinson's Disease; Depanjan Sarkar¹; Drupad Trivedi¹; Caitlin Walton-Doyle¹; Joy Milne¹; Eleanor Sinclair¹; Monty Silverdale¹; Perdita Barran¹; ¹University of Manchester, Manchester, United Kingdom
- TP 466 Charge-Sensing Particle Detector (CSPD): A Sensitivity-Enhanced Faraday Cup; Szu-Wei Chou¹; Yi-Kun Lee²; Yi-Teng Hsiao²; Liang-Chun Fan²; Chun-Yen Cheng²; ¹AcroMass technologies, Inc., Taipei, Taiwan; ²AcroMass Technologies, Inc., Hsinchu, Taiwan
- TP 467 Enhanced Charge Detection Mass Spectrometry
 Precision with a Low-Noise Amplifier Without a
 Feedback Resistor; Aaron R Todd¹; Andrew W Alexander¹;
 Martin F Jarrold¹; *Indiana University, Bloomington, IN
- TP 468 Tantalum-Based Superconducting Tunnel Junction Cryodetection Mass Spectrometry; Logan Plath¹; Mohammad A. Halim¹; Stephan Friedrich²; Francisco Ponce³; Jack Harris⁴; Robin Cantor⁵; Mark E. Bier¹;

 1 Carnegie Mellon University, Pittsburgh, PA; 2 Lawrence Livermore National Laboratory, Livermore, CA; 3 Stanford

- University, Palo Alto, CA; ⁴XIA LLC, Hayward, CA; ⁵STAR Cryoelectronics, Santa Fe, NM
- TP 469 Atomic Layer Coating Enabled Performance Improvements of Channel Electron Multipliers (CEM);

 Matthew Breuer¹; Paula Holmes, Dr. 1; 1Photonis USA, Sturbridge, MA
- TP 470 Multiplexing in Charge Detection Mass Spectrometry:
 Rapid Measurement of Large Native Proteins and
 Macromolecular Complexes; Conner C Harper¹; Andrew
 G. Elliott¹; Evan R. Williams¹; ¹University of California,
 Berkeley, Berkeley, CA
- TP 471 Generation of Electrosprayed Ions for Fundamental Studies Using a Linear Ion Trap Coupled to a Superconducting Tunnel Junction Cryodetector;

 Mohammad Abdul Halim¹; Logan Plath¹; Jonathan Shulgach¹; Mark E. Bier¹; ¹Carnegie Mellon University, Pittsburgh. PA
- TP 472 Distance-of-Flight Mass Spectrometry Using a Semiconductor Ion Detector Array; Steven Ray; University at Buffalo, SUNY, Buffalo, NY
- TP 473 High-Pressure Solid-State Ion Detector with 10-uV/e- Gain and 180-e- Noise; Yixin Song¹; Justin Chu¹; Joan Magalhaes¹; Jacob Nowjack¹; Jace Rozsa¹; Eric Swindlehurst¹; Sanjiv Pant¹; Kent Layton¹.²; Steve Lammert³; Xiao Wang³; Edgar Lee³; Nathan Porter³; Milton Lee¹; Aaron Hawkins¹; Shiuh-hua Wood Chiang¹; ¹Brigham Young University, Provo, UT; ²ON Semiconductor, Lindon, UT; ³PerkinElmer Health Sciences Inc., American Fork, UT
- TP 474 Electron Ionization LC-MS with Supersonic Molecular Beams Drug Impurities Analysis and Combination with GC-MS in One System; Svetlana Tsizin¹; Tal Alon¹; Alexander B. Fialkov¹; Aviv Amirav¹; ¹Tel-Aviv University, Tel-Aviv, Israel
- TP 475 The Use of a Cooled Inlet System to Enable the Measurement of Negatively Charged Compounds Using CIMS; Alan T. Taylor¹; C. Logan Mackay¹; M. J. Cowley¹; N. McKeown¹; ¹University of Edinburgh, Edinburgh, United Kingdom
- TP 476 Development of a GC-APCI Interface for an Orbitrap MS; <u>Joshua B Powers</u>¹; Shawn R Campagna¹; ¹University of Tennessee, Knoxville, TN
- TP 477 Mechanospray Ionization (MSI) of Macromolecules Produces Lower Average Charge States and Lower Internal Energy Ions than ESI; Liam Dugan¹; Mark E. Bier¹; ¹Carnegie Mellon University, Pittsburgh, PA
- TP 478 Combined Atomic and Molecular (CAM) Ionization Source with an Orbitrap 1M: Elemental, Isotopic, and Molecular MS at Resolution of >1.5M; R. Kenneth Marcus¹; Edward D Hoegg²; David W Koppenaal²; Joanna Szpunar³; Simon Godin³; Ryszard Lobinski³; ¹Clemson University, Clemson, SC; ²Pacific Northwest National Laboratory, Richland, WA; ³CNRS, InInstitute of Analytical Sciences and Physical Chemistry for the Environment and Materials, Pau, France
- TP 479 Liquid Sampling Atmospheric Pressure Glow Discharge (LS-APGD) Interfaced with a Compact (Quadrupole) Mass Spectrometer for Analysis of Diverse Samples; Tyler Williams¹; R. Kenneth Marcus¹; **Clemson University, Clemson, SC**
- TP 480 Direct Analysis of Contaminants in Soil, Aqueous, and Biological Samples Using Membrane Introduction Tandem Mass Spectrometry with Liquid Electron Ionization; Gregory W. Vandergrift^{1, 2}; Joseph Monaghan¹; Erik T. Krogh^{1, 2}; Christopher G. Gill^{1, 2, 3, 4}; ¹Appl. Env. Res. Labs. (AERL), Vancouver Island University, Chemistry Department, Nanaimo, BC; ²University of Victoria, Chemistry Department, Victoria, BC; ³Simon Fraser University, Chemistry Department, Burnaby, BC; ⁴University of Wasington, DEOHS, Seattle, WA



- TP 481 Single-Cell Analysis by Mass Spectrometry Using Electro-Migration and Electroporation; Zishuai Li¹; Zhengmao Wang².³; Xiaoxiao Ma⁴; Junmin Pan².³; Zheng Ouyang⁴.⁵; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instrument, Tsinghua University, Beijing, China; ²Laboratory for Marine Biology and Biotechnology, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China; ³MOE Key Laboratory of Protein Sciences, Tsinghua-Peking Center for Life Sciences, School of Life Sciences, Tsinghua University, Beijing, China; ⁴State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China; ⁵Weldon School of Biomedical Engineering, Purdue University, West Lafayette, ILLINOIS
- TP 482 Microfluidic Open Interface with Liquid Electron Ionization Mass Spectrometry: Rapid Measurement of THC and Other Cannabinoids in Different Matrices; Pierangela Palma¹; Veronica Termopoli¹; Giorgio Famiglini¹; Greta Giacomelli¹; Achille Cappiello¹; Emir Nazdrajić²; Janusz Pawliszyn²; ¹University of Urbino, Urbino, Italy; ²University of Waterloo, Waterloo, ON
- TP 483 Static Membrane Extraction Mass Spectrometry for Space Applications; R. Timothy Short¹; Strawn K. Toler¹; Jennifer C. Stern²; Charles A. Malespin²; Brian M. Leiter³; ¹SRI International, St Petersburg, FL; ²NASA Goddard Space Flight Center, Greenbelt, MD; ³ADNET System, Inc., Bethesda, MD
- TP 484 Simulation of Isotherm HiKE-IMS MS Transfer Stage; Robin Hillen¹; Walter Wissdorf¹; Maria Allers²; Hendrik Kersten¹; Stefan Zimmermann²; Thorsten Benter¹; ¹Bergische Universität Wuppertal, Wuppertal, Germany; ²Leibniz Universität Hannover, Hannover, Germany
- TP 485 Microflow LC-Nanospray ESI-MS; Daojing Wang¹; Pan Mao¹; Yuchao Chen¹; **Newomics Inc., Berkeley, CA
- TP 486 A Novel Method for NH4+ Reagent Ion Production in PTR-MS and its Applications; Christian Lindinger¹; Eugen Hartungen¹; Rene Gutmann¹; Alfons Jordan¹; Lukas Märk¹; Philipp Sulzer¹; **IONICON Analytik GmbH., Innsbruck, Austria
- TP 487 Optimized Nanoflow ESI Source to Eliminate the Need for Tuning; Yang Kang¹; Bradley B. Schneider¹; Leigh Bedford¹; Thomas R. Covey¹; ¹SCIEX, Concord, ON
- TP 488 High-Throughput, Low-Cost Reaction Screening
 Apparatus Using a Modified 3D Printer; Robert Schrader¹;
 Stephen T Ayrton¹; R. Graham Cooks¹; ¹Purdue University,
 West Lafayette, IN
- TP 489 Development of a Novel Tantalum Cathode for Determing Trace Elements in Soils by Glow Discharge Mass Spectrometry; Rong Qian¹; Shangjun Zhuo¹; Jiangli Dong¹; ¹Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China
- TP 490 Efficient Ionization of Challenging Pesticides Using Liquid Chromatography/Mass Spectrometry and Dielectric Barrier Discharge Ionization (DBDI); Juan F Garcia-Reyes¹; Julio César Benítez-Villalba²; Miriam Beneito-Cambra¹; Bienvenida Gilbert-López¹; Antonio Molina-Díaz¹; Sebastian Brandt³; Joachim Franzke³; ¹University of Jaen, Jaen, Spain; ²Universidad Nacional de Asuncion, Facultad de Ciencias Exactas y Naturales, San Lorenzo, Paraguay; ³Leibniz-Institut für Analytische Wissenschaften ISAS e.V., Dortmund, Germany
- TP 491 Microsampling with Cotton Threads and Direct Analysis via Ambient Mass Spectrometry; Devin Swiner¹; Sierra Jackson¹; George R. Durisek¹; Bridget K. Walsh¹; Yaman Kouatli¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- TP 492 Characterization and Development of a Reagent Cation Source for NETD; Steven J Kregel¹; Benton J Anderson²; Michael S Westphall¹; Joshua J Coon^{1, 2, 3, 4}; ¹Department of

- Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI; ²Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ³Morgridge Institute for Research, Madison, WI; ⁴Genome Center of Wisconsin, Madison, WI
- TP 493 Resolving Elemental Isobaric Interferences with the Liquid Sampling-Atmospheric Pressure Glow Discharge / Orbitrap System for High Precision Isotope Ratio Measurements; Edward D Hoegg¹,²; David W Koppenaal²; Simon Godin³; Joanna Szpunar³; Ryszard Lobinski³; R. Kenneth Marcus¹; ¹Clemson University, Clemson, SC; ²Pacific Northwest National Laboratory, Richland, WA; ³CNRS, InInstitute of Analytical Sciences and Physical Chemistry for the Environment and Materials, Pau, France
- TP 494 An Integrated Electrocatalytic nESI-MS Platform for Direct Analysis of C=C Isomers in Fatty Acids Derived from Complex Biofluids; Kavyasree Chintalapudi¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- TP 495 Quantitative Analysis of Anticancer Drugs in Live Single Suspension Cells: From Cell Lines to Patient Samples; Shawna Standke¹; Ryan Bensen¹; Devon Colby¹; Anh Le¹; Naga Rama Kothapalli¹; Jonathan E. E. Heinlen²; Anthony Burgett¹; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK; ²University of Oklahoma, Health and Science Center, Oklahoma City, OK
- TP 496 Direct Analysis of Complex Mixtures by Non-contact Nano-Electrospray Mass Spectrometry Coupled with Simultaneous Atmospheric Pressure Chemical Ionization; Dmytro S Kulyk¹; Abraham K. Badu-Tawiah¹; ¹OSU, Columbus, OH

ION MOBILITY: APPLICATIONS I 497-519

- TP 497 Probing the Conformational Adaptations of Thermoresponsive Polymers by Ion-Mobility Mass Spectrometry; Savannah Snyder¹; Megan A Cruz²; Abraham Joy²; Chrys Wesdemiotis¹; ¹The University of Akron Chemistry Department, Akron, OH; ²The University of Akron. Akron
- TP 498 Ergodic and Non-Ergodic Mobility Selected Fragmentation of Isomeric Model Peptides; Noa deHaseth¹; Jacob Porter²; Francisco Fernandez-Lima²; ¹University of Florida, Gainesville, FL; ²Florida International University, Miami, FL
- TP 499 Demonstration of the Unique Capabilities of Cyclic Ion Mobility High Resolution Mass Spectrometry to Resolve Stereoisomeric and Regioisomeric Saponin Ions;

 Emmanuel Colson¹; Corentin Decroo¹; Julien De Winter¹;

 Dale Cooper-Shepherd²; Martin Palmer²; Jan Claereboudt²;

 Pascal Gerbaux¹; ¹University of Mons, Mons, Belgium;

 ²Waters Corportaion, Cheshire, United Kingdom
- TP 500 Comparing Solution Phase and Gas Phase Protein Stability Using Collisional Induced Unfolding; <u>Lucienne Nouchikian</u>^{1,2}; Derek J Wilson^{1,2}; *1 York University, Toronto, ON; *2 Center for Research in Mass Spectrometry, Toronto, Ontario
- TP 501 Analysis of Specific Metal Binding to Alpha-Synuclein with Collisional Induced Unfolding; Neil R. Quebbemann¹; Joseph A. Loo¹; ¹University of California Los Angeles, Los Angeles, CA
- TP 502 Utilization of Enhanced Shape Selective Information
 Obtained from a Cyclic Ion Mobility-Enabled –Mass
 Spectrometer for the Characterisation of Complex
 Mixtures; Javeria Mehboob¹; James Scrivens¹; Gillian
 Taylor¹; Safwan Akram¹; Martin Palmer²; Jakub Ujma²;
 Kevin Giles²; Jonathan P Williams²; David Portwood³; Pablo
 Navarro³; ¹Teesside University, Middlesbrough, United
 Kingdom; ²Waters Corportaion, Cheshire, United Kingdom;
 ³Syngenta Jealott's Hill International Research Centre,
 Bracknell, United Kingdom



- TP 503 Pursuit of Bottom-Up, Middle-Down, and Top-Down Glycoconjugate Analysis Enabled Through Online CE-ESI-IMS; Daniel Delafield¹; Gongyu Li²; Lingjun Li³;

 1 University of Wisconsin Madison, Madison, WI; 2 University of Wisconsin Madison, Madison, WI; 3 University of Wisconsin, Madison, Madison, WI
- TP 504 Following Conformational Changes in Knot Proteins with nESI-TIMS-MS: Solution vs Gas Phase; Jean R. N. Haler¹; Kevin Jeanne Dit Fouque¹; Juan Camilo Molano-Arevalo¹; Fenfei Leng¹; Francisco A. Fernandez-Lima¹;
 ¹Florida International University, Miami, FL
- TP 505 An Investigation into the use of Cyclic Ion Mobility for the Separation of Biopharmaceutical Peptide and Protein Modifications; Jim Langridge¹; Henry Shion²; Martin Palmer³; Weibin chen²; Dale A Cooper-Shepherd³; ¹Waters Corporation, Wilmslow, United Kingdom; ²Waters Corporation, Milford, MA; ³Waters Corporation, Wilmslow, United Kingdom
- TP 506 Fast Collision Induced Unfolding Coupled to Droplet Microfluidic-Based Sample Introduction for High-Throughput Protein Structural Analysis and Drug Discovery; Cara I. D'Amico¹; Daniel A. Polasky¹; Sugyan M. Dixit¹; Robert T. Kennedy¹; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI
- TP 507 Structural Characterization of Carbohydrates
 Oligosaccharide using Tandem Trapped Ion
 Mobility Spectrometry–Mass Spectrometry; Jusung
 Lee¹; Christian Bleiholder¹; ¹Florida State University,
 Tallahassee, FL
- TP 508 Direct Identification of Endogenous Ligands Bound to Specific Protein Conformations Using Multistage Gas Phase Separation on a Cyclic-Mobility Mass Spectrometer; Idlir Liko¹; Joseph F Gault²; Martin Palmer³; Dale A Cooper-Shepherd³; Jakub Ujma³; Carol V. Robinson²; ¹OMass Therapeutics, Oxford, United Kingdom; ²Oxford University, Oxford, United Kingdom; ³Waters Corporation, Wilmslow, United Kingdom
- TP 509 Analysis of Lipid Signaling Class Analytes Using a Travelling Wave Cyclic Ion Mobility Separator; Mike McCullagh¹; Martin Palmer¹; Emma Marsden-Edwards¹; James I Langridge¹; Johannes PC Vissers¹; ¹Waters Corporation, Wilmslow, United Kingdom
- TP 510 Separation of Asp/IsoAsp Isobaric Peptides Using Trapped Ion Mobility Spectrometry (TIMS); Anjali Alving¹; Shourjo Ghose¹; Leah (Hanliu) Wang²; Olga Friese²;

 ¹Bruker Scientific, Billerica, MA; ²Pfizer, Chesterfield, MO
- TP 511 Fast Identification and Simultaneous Separation of Electrochemically Generated Isomeric Xenobiotic Phase-I Metabolites by means of Trapped Ion Mobility-Mass Spectrometry; Jens Fangmeyer¹; Simon Gereon Scheeren¹; Robin Schmid¹; Uwe Karst¹; ¹University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany
- TP 512 All Ion Unfolding/Fragmentation (AIU/AIF): A Modified Native Ion Mobility–Mass Spectrometry (IM-MS)

 Approach for Diagnostic Glycoprotein Analysis; Ashley Phetsanthad¹; Gongyu Li²; Lingjun Li¹.²; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²School of Pharmacy, University of Wisconsin-Madison, Madison, WI
- TP 513 The Performance of a New Ion Mobility Spectrometer Designed to Measure Singly-charged Protein Ions; W Henry Benner¹; Ben Aguilar¹; ¹Ion Dx, Monterey, CA
- TP 514 Short nanoLC Gradients Optimize Throughput on a tims Equipped QTOF for Deep Proteome Measurements;
 Thomas Kosinski¹; Scarlet Koch¹; Thorsten Ledertheil¹;
 Christian Meier-Credo¹; Christoph Gebhardt¹; Gary Kruppa²;
 Heiner Koch¹; ¹Bruker Daltonik GmbH, Bremen, Germany;
 ¹Bruker Daltonics Inc., Billerica, MA

- TP 515 A Non Targeted Approach to the Development of a Food Additive CCS Screening Library and its Application; Mike McCullagh¹; Mike Wilson¹; Severine Goscinny²; Kenneth Rosnack³; ¹Waters Corporation, Wilmslow, United Kingdom; ²Sciensano, Brussels, Belgium; ³Waters Corporation, Milford, MA
- TP 516 Investigations into Cross-Platform and Long-Term Robustness of a CCS Metric; David Douce¹; Mike McCullagh²; Michelle Wood²; Nayan Mistry²; Severine Goscinny³; Petur Dalsgaard⁴; ¹Waters (MS Technologies), Wilmslow, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom; ¹Sciensano, 14, rue Juliette Wytsman,, Belgium; ⁴Department of Forensic Medicine, University of Copenhagen,, Copenhagen, Denmark
- TP 517 Effects of Osmolytes on Conformations of Model Proteins as Studied by IM-MS; Christopher Mallis¹; David H. Russell¹; ¹Texas A&M University, College Station, TX
- TP 518 Ion Mobility-Accelerated Peptide Separation in Time and Space to Unveil Human Proteomes; Yasushi Ishihama¹; Kosuke Ogata¹; Ryo Kajita²; Heiner Koch³; Koshi Imami¹; Naoyuki Sugiyama¹; ¹Kyoto University, Kyoto, Japan; ²Bruker Japan K.K., Yokohama, Japan; ³Bruker Daltonik GmbH. Bremen. Germany
- TP 519 "Zero Charge Selection" Ion Mobility-Mass Spectrometry Reveals the Effect of Sialylation on Glycoprotein Structures; Gongyu Li¹; Lingjun Li²; ¹University of Wisconsin-Madison, Madison, WI; ²University of Wisconsin, Madison, Malison, WI

ION MOBILITY: FAIMS/DMS 520-529

- TP 520 Simplifying uranium isotope ratio (IR) analysis with nanospray differential mobility spectrometry- mass spectrometry (DMS-MS); Ifeoluwa Ayodeji; Theresa Evans-Nguyen²; 101; 101 iversity of South Florida, Tampa, FL; 201 iversity of Florida, Tampa, FL
- TP 521 Chemical Kinetics and Ion Transport Simulations:
 Cluster Dynamics in Differential Ion Mobility
 Spectrometry; Walter Wissdorf¹; Duygu Erdogdu¹; Florian
 Stappert¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of
 Wuppertal, Wuppertal, Germany
- TP 522 Validated FIA-FAIMS SRM MS Approaches for Vicine and Convicine Quantification from Faba Beans and Implications for Molecular Marker Analysis; Haixia Zhang¹; Randall W Purves¹; Rob Stonehouse¹; Pete M. P. Iannetta²; Jodi Souter³; Thomas D. Warkentin¹; Albert Vandenberg¹; ¹University of Saskatchewan, Saskatoon, SK; ²The James Hutton Institute, Dundee, United Kingdom; ³Hemp Genetics International, Saskatoon, SK
- TP 523 FAIMS Separation of Fentanyl-Related Compounds Using Vapor Modification; Nathan a Grimes¹; Ifeoluwa Ayodeji²; Theresa Evans-Nguyen¹; ¹University of South Florida, Tampa; ²University of South Florida, Tampa, FL
- TP 524 **LC-ultra FAIMS-MS Separation of Opioid Isomers Using Solvent Vapor Addition**; Kevin Davis¹; Michael Wei¹; Robin H.J. Kemperman¹; Timothy J. Garrett²; Richard A Yost¹; ¹Department of Chemistry, University of Florida, Gainesville, FL; ²Department of Pathology, Immunology, and Laboratory Medicine, University of Florida, Gainesville, FL
- TP 525 Affecting FAIMS Separation with Trace Levels of Gas Modifiers; Michael Belford¹; Michael Wei²; Eloy R. Wouters¹; ¹Thermo Fisher Scientific, San Jose, CA; ²University of Florida, Gainesville, FL
- TP 526 Developing the Research to Routine Workflows with FAIMS: Automating Large-Scale SRM Method Creation for Routine Plasma Proteomics Screening; Scott Peterman¹; Kerry Hassell²; Mary L. Blackburn³; Romain Huguet³; Michael Volny³; Michael Belford³; Satendra Prasad³; ¹Thermo Fisher Scientific, Grimes, IA; ²Thermo



- Fisher Scientific, Somerset, NJ; ³Thermo Fisher Scientific, San Jose, CA 95134
- TP 527 FAIMS Pro™ Interface Coupled to Triple Quadrupole Mass Spectrometry for Quantification of Peptides in Complex Matrices; Michael Volny¹; Claudia P.B. Martins¹; Mary L. Blackburn¹; Michael W. Belford¹; ¹Thermo Fisher Scientific, San Jose, CA
- TP 528 Lifting the Albumin Curtain to Increase Plasma
 Proteome Profiling: Incorporating Differential
 Ion Mobility for Increased Protein Coverage; Scott
 Peterman¹; Romain Huguet²; Michael Belford²; Satendra
 Prasad²; Susan E. Abbatiello³; *1Thermo Fisher Scientific,
 Grimes, IA; *2Thermo Fisher Scientific, San Jose, CA 95134;
 3Northeastern University, Boston, MA
- TP 529 Influence of Electrospray and Nanoelectrospray on Lithiated Monosaccharide Homodimer Structures Monitored by Differential Ion Mobility Spectrometry-Mass Spectrometry; Tiffany L Crawford¹; Gary L. Glish¹; ¹University of North Carolina at Chapel Hill, NC

METABOLOMICS: GENERAL I 530-549

- TP 530 Development of a Dansyl Labeled Dipeptide Standard Library for Dipeptide Identification Using Dansylation LC-MS Metabolomics Platform; Kamran Mammadli¹; Yunong Li¹; Erik Cardona Gomez¹; Liang Li¹; ¹University of Alberta, Edmonton, AB
- TP 531 Analysis of Neurotransmitters during Rodent Nervous System Development Using Capillary Electrophoresis-Mass Spectrometry; Shannon Murphy¹; Amanda C Weiss¹; Jennifer W Mitchell¹; Stanislav S Rubakhin¹; Martha U Gillette¹; Jonathan V. Sweedler¹; ¹University of Illinois at Urbana Champaign, Urbana, IL
- TP 532 MIDAS: A Targeted Approach for the Systematic Discovery of Protein-Metabolite Interactions; Kevin G.

 Hicks¹; Aubrie Blevins¹; Sean R. Hackett²; James E. Cox¹

 3; Jared Rutter¹; ¹University of Utah School of Medicine, Department of Biochemistry, Salt Lake City, Utah; ²Calico Life Sciences, South San Francisco, CA; ³University of Utah Mass Spectrometry & Proteomics Core, Sale Lake City, UT
- TP 533 High-Throughput Metabolite Profiling of Cell Media for Improved Antibody Production Utilizing a Dual Separation/Mass Spectrometry System with Intelligent MSn Acquisition; Ioanna Ntai¹; Anson Pierce²; Paul Gulde²; Martin Samonig³; John Brann⁴; Christopher Elicone⁴; Amanda Souza¹; Ralf Tautenhahn¹; Daniel Lopez Ferrer¹; Andreas Huhmer¹; ¹Thermo Fisher Scientific, San Jose, CA; ¹Thermo Fisher Scientific, Germany; ⁴Thermo Fisher Scientific, Franklin, MA
- TP 534 Metabolomics Uncovers Metabolic Pathways Affected by Glyceryl Trinitrate Treatment: Much More than a Prodrug of Nitric Oxide; Jan F. Stevens¹; Elizabeth R. Axton¹, Jaewoo Choi²; ¹Department of Pharmaceutical Sciences, Linus Pauling Institute, Oregon State University, Corvallis, Oregon; ²Linus Pauling Institute, Oregon State University, Corvallis, OR
- TP 535 Unraveling the Effects of Alternaria Toxins on the Rat Metabolome; Vincent Lüttig¹; Hannes Puntscher¹; Mira Flasch¹; Harald Höger²; Doris Marko¹; Benedikt Warth¹, ³, ⁴; ¹University of Vienna, Faculty of Chemistry, Department of Food Chemistry and Toxicology, Vienna, Austria; ²Medical University of Vienna, Core Center of Biomedical Research, Austria, Vienna, Austria; ³Research Network Chemistry Meets Microbiology, University of Vienna, Vienna, Austria; ⁴Vienna Metabolomics Center (VIME), Vienna, Austria
- TP 536 Age Association Analysis between Tricarboxylic Acid Metabolites and Neurocognitive Impairment in

- **Persons Living with HIV**; <u>Sausan Azzam</u>¹; Corrilynn Hileman²; Daniela Schlatzer¹; Mark R. Chance¹; Katherine Tassiopoulos³; Robert Kalayjian²; ¹Case Western Reserve University, Cleveland, OH; ²MetroHealth Med Ctr, Cleveland, OH; ³Harvard T.H. Chan School of Public Health, Boston, MA
- TP 537 Development of LC-MS/MS Based Genome-wide Metabolomics for Bacteria; Vanessa Phelan¹; Manuel Banzhaf²; Alison Waller³; ¹University of Colorado, Denver Anschutz, Aurora, CO; ²University of Birmingham, Birmingham, United Kingdom; ³Brock University, St. Catharines, ON
- TP 538 Comprehensive Discrimination of Triterpenoids in Three Momordica Species Using Targeted LC-MS/MS Based Metabolomics; Joydeb Chanda¹; Akanksha Singh²; Sayan Biswas¹; Pulok K Mukherjee¹; Dipankar Malakar²; Manoj Pillai²; ¹School of Natural Product Studies, Jadavpur University, Kolkata, India; ²SCIEX, Gurgaon, India
- TP 539 A New HILIC LC/Q-TOF Metabolomics Method with Biologically Important Isomer Separation and Broad Coverage of Metabolite Classes; Yuqin Dai¹; Jordy J. Hsiao¹: ¹Aqilent Technologies. Santa Clara. CA
- TP 540 Development of More Reproducible and Sensitive Polar Metabolomics Methods; Sara Violante¹; Hardik Shah¹; Yuqin Dai²; Steven M Fischer²; Justin R Cross¹; ¹Memorial Sloan Kettering Cancer Center, New York, NY; ²Agilent Technologies, Inc., Santa Clara, CA
- TP 541 Metabolomics for Environmental Monitoring:
 Developing Tools for Monitoring the Remediation
 Activity of Microbial Consortia; Shawn R. Campagna¹;
 Amanda L. May¹; Yongchao Xie¹; Mandy Michaelsen²; Frank
 Loeffler¹,³; ¹University of Tennessee, Knoxville, TN; ²US
 Army Corps of Engineers, Seattle, Washington; ³Oak Ridge
 National Laboratory, Oak Ridge, TN
- TP 542 DNA Adductome and Oxidative Stress-Related Metabolome Changes by the Cooked Meat Carcinogen 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine in Human Prostate Cells; Jingshu Guo¹; Medjda Bellamri¹; Scott Walmsley¹; Christina Brown¹; Haoqing Chen¹; Peter W. Villalta¹; Robert Turesky¹; ¹University of Minnesota, Minneapolis. MN
- TP 543 A Nontargeted Multi-Omics Workflow for Meconium Analysis Using Ultra High-Pressure Liquid Chromatography Coupled to High Resolution Mass Spectrometry (UHPLC-HRMS); Atiye Ahmadireskety¹; Josef Neu²; Richard A Yost¹.³; John A. Bowden⁴; ¹University of Florida Department of Chemistry, Gainesville, FL; ²University of florida, Department of Pediatrics, College of Medicine, Gainesville, FI, United States, Gainesville, FL; ³University of Florida Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, FL; ⁴University of Florida, College of Veterinary Medicine, Department of Physiological Sciences, Gainesville, FI, United States, Gainesville. FL
- TP 544 Hydrolysis of Sulfated Steroids, Toxic Endobiotics and Xenobiotics Using Purified Arylsulfatase for Quantitation of Sulfated and Unconjugated Compounds; Pongkwan Sitasuwan¹; L. Andrew Lee¹; ¹IMCS, Irmo, SC
- TP 545 Volatile Metabolites Monitoring of Gut Microbiota Using Secondary Electrospray Based Mass Spectrometry Techniques- a Tale of Two Approaches; Haorong Li¹; Mengyang Xu¹; Jiangjiang (Chris) Zhu²; ¹Miami University, Oxford, OH; ²The Ohio State University, Columbus, OH
- TP 546 Revealing the Changes in Pulmonary Arterial Smooth Muscle Cells in Patient by Using Multi-Omics Approach;

 Dan Li^{1,2,3}; Songjie Chen⁴; Marlene Rabinovitch^{1,2,3}; Michael Snyder⁴; ¹Department of Pediatrics, Stanford University School of Medicine, Stanford, CA; ²Stanford Cardiovascular Institute, Stanford University, Stanford, CA; ³Vera Moulton



- Wall Center for Pulmonary Vascular Diseases, Stanford University School of Medicine, Stanford, CA; ⁴Department of Genetics, Stanford University School of Medicine, Stanford, CA
- TP 547 Development and Systematic Evaluation of Orthogonal LC-MS Platforms for Metabolomics Workflows; Jim Blasberg¹; Kevin Ray¹; Zhiyun Cao¹; Ben Cutak¹; Mark Angeles¹; ¹MilliporeSigma, St Louis, MO
- TP 548 Investigation of Metabolite Modifications during Sample Preparation in Chemical Isotope Labeling LC-MS;

 Yunong Li¹; Kamran Mammadli¹; Erik Cardona Gomez¹;

 Liang Li¹; ¹University of Alberta, Edmonton, AB
- TP 549 Metabolomics Approach to Assess Tissue-Specific Metabolic Alterations in Resuscitated Rats after Prolonged Cardiac Arrest; Muhammad Shoaib¹; Jaewoo Choi²; Tai Yin¹; Lance B Becker¹; Junhwan Kim¹; ¹Feinstein Institute for Medical Research, Manhasset, NY; ²Linus Pauling Institute. Oregon State University. Corvallis, OR

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- TP 550 Identification of Type 2 Diabetes Metabolic Biomarkers Based on Chemical Isotope Labeling LC-MS; Xinyun Gu¹; Ahmad Aljadaa²; Anas Abdel Rahman². ³. ⁴; Liang Li¹; ¹University of Alberta, Edmonton, AB; ²College of Medicine, AI Faisal University, Riyadh, Saudi Arabia; ³King Faisal Specialist Hospital and Research Center, King Faisal Specialist Hospital and Research Center, Saudi Arabia; ⁴Memorial University of Newfoundland, St. John's, NL
- TP 551 Metabolomics Profiling of 5XFAD Mice Model Using Optimized Label-free Untargeted Metabolomics
 Pipeline; Boer Xie¹; Haiyan Tan²; Junmin Peng²; ¹St.Jude Children's Research Hospital, Memphis, TN; ²St Jude Children's Research Hospital, Memphis, TN
- TP 552 Fast Detection of Pesticides and Drugs Removed from Waste Water by Plants Using Flow Injection Analysis Magnetic Resonance Mass Spectrometry; Claire Villette¹; Matthias Witt²; Aiko Barsch²; Louis Maljers³; Dimitri Heintz⁴; ¹University of Strassbourg, Strassbourg, France; ²Bruker Daltonik GmbH, Bremen, Germany; ³Bruker Daltonics Inc., Billerica, MA; ⁴University of Strasbourg, Strasbourg, France
- TP 553 Identification of Antifungal Natural Products in Scab Resistant Pecan Trees; Zhentian Lei¹; Clayton D. Kranawetter¹; Barbara Sumner¹; Andrew L. Thomas¹; Santosh Kumar¹; Lloyd W. Sumner¹; ¹University of Missouri, Columbia, MO
- TP 554 High-resolution Mass Spectrometry for Monitoring Physiological Impacts and Biotransformation Products in Fish Exposed to Wastewater Effluent; Jonathan Mosley¹; Marina Evich²; Ioanna Ntai³; Drew Ekman¹; Jenna Cavallin⁴; Daniel Villeneuve⁴; Gerald Ankley⁴; Timothy Collette¹; ¹US EPA, Athens, GA; ²ORISE Fellow, US EPA, Athens, GA; ³Thermo Fisher Scientific, San Jose, California; ¹US EPA, Duluth, MN
- TP 555 Profiling Weaning Piglet Serum Metabolomic
 Affected by Acute Exposure of High Concentrations
 Atmospheric Hydrogen Sulfide; Zhen Liu¹; Qingshi
 Meng¹; Qixiang Miao¹; Yanjiao Xie¹; Hongfu Zhang¹;
 Xiangfang Tang¹; ¹Institute of Animal Science, Chinese
 Academy of Agricultural Sciences, Beijing, China
- TP 556

 Metabolomic Profiling of Potential Bioactive Minor
 Compounds in Amazonian Vegetable Oils and Butters
 by UHPLC-MSE; Maíra Fasciotti¹; Michael Murgu²; Thays V.
 C. Monteiro¹; Simone C. Chiapetta³; Alessandra Sussulini⁴;
 Marcos N. Eberlin⁴; Valnei S. Cunha¹; ¹INMETRO, Duque
 De Caxias, Brazil; ²Waters Corporation, Barueri, Brazil;
 ³National Institute of Technology, Rio de Janeiro, Brazil;
 ⁴University of Campinas, Campinas, Brazil

- TP 557 Ethanol-Induced Metabolomic Differences in Mice Using HRAM Q-TOF Analysis; Stephane Moreau¹; Georgios Theodoridis²; Helen G. Gika³; Christina Virgiliou²; Olga Deda³; Ian D Wilson⁴; Neil J Loftus⁵; ¹Shimadzu Europa GmbH, Duisburg, Germany; ²Chem and BIOMIC_AUTh, Aristotle University, Thessaloniki, Greece; ³Medicine and BIOMIC_AUTh, Aristotle University, Thessaloniki, Greece; ⁴Imperial College London, Department of Surgery and Cancer, United Kingdom; ⁵Shimadzu MS/BU, Manchester, United Kingdom
- TP 558 Fast Profiling of Tryptophan Metabolites in a Gut Microbiome Study Using Wide Isolation Strategies for UHPLC-HRMS/MS; Vanessa Y. Rubio¹; Joy G. Cagmat¹; Gary P. Wang¹; Richard A Yost¹; Timothy J Garrett¹;

 1 University of Florida, Gainesville, FL
- TP 559 Metabolomics of Fusarium verticillioides / Maize Interaction; Mark Busman; USDA, ARS, NCAUR, BFP, Peoria, IL
- TP 560 Improved Metabolite Identification in a Single Injection with SWATH® Acquisition for Untargeted Metabolomics Workflow; Robert Proos¹; Khatereh Motamedchaboki²;

 1 Sciex, Framingham, MA; 2 Sciex, Redwood City, CA
- TP 561 A Collisional Cross Section Database for Diverse Small Molecules: Improving Annotation of Metabolomics Data; Corey D Broeckling¹; Jessica E. Prenni¹; Robert S Plumb²; Giorgis Isaac²; Johannes PC Vissers³; ¹Colorado State University, Fort Collins, CO; ²Waters Corporation, Milford, MA; ³Waters Corporation, Wilmslow, United Kingdom
- TP 562 Volatile Interactions between Solanum licopersicum and Phytophthora infestans; Lida Garzón; Universidad de los Andes, Bogotá D.C, Colombia
- TP 563 Metabolomics Study of Human Blood Plasma Using 95% 13C Internal Standard with Liquid Chromatography and Ion Mobility-Mass Spectrometry; Robin H.J.

 Kemperman¹; Chris W.W. Beecher²; Timothy J. Garrett¹; Richard A Yost¹; **Inviversity of Florida, Gainesville, FL; **2/IROA Technologies LLC, Bolton, MA**
- TP 564 Multi-omic Discovery of Metabolic Rewiring in Triplenegative Breast Cancer Following Mitochondrial Folate Transport Ablation: Strategy to Reveal Drug-targetable Synthetic Lethalities; Qiuying Chen¹; Joshua B Zuk¹; miller A Christine²; Steven M Fischer²; Steven Gross¹; ¹Weill Medical College of Cornell, New York, NY; ²Agilent Technologies, Inc., Santa Clara, CA
- TP 565 Metabolomics Rosetta Stone: Testing Strategies for Harmonization of Untargeted Metabolomics Data Across Multiple Analytical Platforms; Ken Liu¹; Vilinh Tran¹; Chunyu Ma¹; Karan Uppal¹; Dean Jones¹; ¹Emory School of Medicine, Atlanta, GA
- TP 566 High-Performance Chemical Isotope Labeling LC-MS for Discovery of Metabolite Biomarkers of Rheumatoid Arthritis; Xiaohang Wang¹; Walter P. Maksymowych¹; Liang Li¹; ¹University of Alberta, Edmonton, AB
- TP 567 Metabolomics Data in the XCMS Cloud: a Resource for Meta Analysis and Systems Biology; Amelia Palermo¹; Tao Huan²; Duane Rinehart¹; Markus M Rinschen¹; Paul H Benton¹; Eoin Fahy³; Shuzhao Li⁴; Shankar Subramaniam³; Gary Siuzdak¹.⁵; ¹The Scripps Center for Metabolomics, The Scripps Research Institute, La Jolla, CA; ²Department of Chemistry, University of British Columbia, Vancouver, BC; ³Department of Bioengineering, University of California San Diego, La Jolla, CA; ⁴Department of Medicine, School of Medicine, Emory University, Atlanta, GE; ⁵Department of Chemistry, Molecular and Computational Biology, The Scripps Research Institute, La Jolla, CA
- TP 568 Metabolomics Characterization of Cell Culture Media by Ultra High Resolution LC-QTOF-MS Analysis;
 Xuejun Peng¹; Guillaume Tremintin¹; Anjali Alving²; Heiko



Neuweger³; Aiko Barsch³; Nikolas Kessler³; ¹Bruker Daltonics Inc., San Jose, CA; ²Bruker Daltonics Inc., Billerica, MA; ³Bruker Daltonik GmbH, Bremen, Germany

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- TP 569 Global Quantification of Proteome and Phosphoproteome Revealed Novel Cellular Signaling Mechanisms Responsive to Hypoxia and Iron Deficiency; <u>Luke Erber</u>¹; Yao Gong¹; Maolin Tu¹; Phu Tran¹; Yue Chen¹; ¹University of Minnesota, Minneapolis, MN
- TP 570 Combining the TMT Calibrator Approach and Immunoaffinity Enrichment for Phosphotyrosine Profiling To Reduce Sample Input Requirements; Bin Fang¹; Victoria Izumi¹; Lily Remsing Rix¹; Eric Haura¹; Uwe Rix¹; Ian Pike²; John Koomen¹; ¹H. Lee Moffitt Cancer Center, Tampa, FL; ²Proteome Sciences plc, London, United Kingdom
- TP 571 Analyzing the Neuronal Phosphoproteome: A Systematic Comparison of Fusion Lumos and timsTOF Pro data; Kristina Desch¹; Thomas Kosinski²; Scarlet Koch²; Heiner Koch²; Erin M. Schuman¹; Julian Langer¹, ³; ¹Max Planck Institute for Brain Research, Frankfurt am Main, Germany; ²Bruker Daltonik GmbH, Bremen, Germany; ³MPI for Biophysics, Frankfurt Am Main, Germany
- TP 572 Phosphoproteomics with LC-FAIMS Separations Coupled to a Modified Tribrid Orbitrap Mass Spectrometer; Alexander S. Hebert¹; Romain Huguet²; Graeme C. McAlister³; Derek J. Bailey³; Michael W. Belford³; Michael S Westphall¹; Joshua J. Coon¹.⁴.⁵.⁶; ¹Genome Center of Wisconsin, Madison, WI; ²Thermo Fisher Scientific, San Jose, California; ³Thermo Fisher Scientific, San Jose, CA; ⁴Department of Biomolecular Chemistry, University of Wisconsin-Madison, Malison, WI; ⁵Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ⁵Morgridge Institute for Research, Madison, WI
- TP 573 Quantitative, Comprehensive Multi-Pathway Signaling Analysis Using an Optimized Phosphopeptide Enrichment Method Combined with an Internal Standard Triggered Targeted MS Assay; Bhavin Patel¹; Penny Jensen¹; Aaron S. Gajadhar²; Sebastien Gallien³; Jae Choi¹; Romain Huguet²; Graeme McAlister²; Derek Bailey²; Shannon Eliuk²; Markus Kellmann⁴; Tabiwang N. Arrey⁴; Alexander Harder⁴; Andreas Huhmer²; Kay Opperman¹; John C Rogers¹; ¹Thermo Fisher Scientific, Rockford, IL; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, Precision Medicine Science Center, Cambridge, MA: ⁴Thermo Fisher Scientific, Bremen, Germany
- TP 574 Optimization and Implementation of a TMT-based Quantitative Phosphoproteomics Workflow to Identify MELK Substrates; Joshua Beri^{1, 2}; Ian M McDonald²; Alex Prevatte^{1, 2}; Dennis Goldfarb^{1, 3}; Lee M Graves^{1, 2, 3}; Laura E Herring^{1, 2}; JUNC Proteomics Core Facility, Chapel hill, NC; JUNC Department of Pharmacology, University of north Carolina at Chapel Hill, Chapel Hill, North Carolina; JLineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- TP 575 Evaluation of Spatiotemporal Influences of Interleukin Family- IL-1: Interleukin-33 (IL-33) on Cellular Signal Transduction Pathways; Rex D a b¹; Sneha M Pinto¹; T. S Keshava Prasad¹; ¹Yenepoya University, Mangalore, India
- TP 576 Proteomic and Phosphoproteomic Network Analysis in Alzheimer's Disease; Lingyan Ping^{1, 2}; Eric B Dammer^{1, 2}; Duc M Duong^{2, 3}; Marla Gearing²; James J. Lah^{2, 4}; Allan I. Levey^{2, 4}; Nicholas T. Seyfried^{1, 2, 4}; *1Department of Biochemistry, Emory University, Atlanta, GA; *2Center for Neurodegenerative Diseases, Emory School of Medicine, Atlanta, GA; *3Department of Biochemistry, Emory University, Atlanta, Georgia; *1Department of Neurology, Emory University, Atlanta, GA

- TP 577 Tandem Mass Tags (TMT) in Global Quantitative Phosphorylation Analysis; Ling Li¹; Dongmei Zhang¹; Belinda Willard¹; ¹Cleveland Clinic, Cleveland, OH
- TP 578 Phosphoproteomics-Based Molecular Subtyping and Kinase Candidate Nomination for Individual Patients of Diffuse-Type Gastric Cancer; Mengsha Tong¹; Chunyu Yu²; Jinwen Shi¹; Yi Wang¹; Tingting Li²; Jun Qin¹; ¹State Key Laboratory of Proteomics, Joint Laboratory of Gastrointestinal Oncology, Beijing Proteome Research Center, National Center for Protein Sciences, Beijing, China; ²2. Department of Biomedical Informatics, School of Basic Medical Sciences, Peking University Health Science Center, Beijing, China
- TP 579 Real-Time, High Density Monitoring of pTyr Signaling Targets in Human Tumors Using Heavy Peptide Triggered Targeted Quantitation; Aaron S Gajadhar¹; Lauren E Stopfer²; Cameron T Flower²; Forest M White²; Bhavin Patel³; Sebastien Gallien⁴; Romain Huguet¹; Graeme McAlister¹; Derek Bailey¹; Shannon Eliuk¹; Markus Kellmann⁵; Tabiwang N. Arrey⁵; Alexander Harder⁵; Daniel Lopez Ferrer¹; Andreas Huhmer¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Department of Biological Engineering, Koch Institute for Integrative Cancer Research, Center for Precision Cancer Medicine, Massachusetts Institute of Technology, Cambridge, MA; ³Thermo Fisher Scientific, Rockford, IL; ⁴Thermo Fisher Scientific, Paris, France; ⁵Thermo Fisher Scientific, Bremen, Germany

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- TP 580 Benchmarking Host Cell Protein Quantification:
 Label-free vs. a Labeled Global Standard; Harsha
 Gunawardena¹; Jeffrey Brelsford¹; Melissa Smith¹; Kevin D.
 Smith²; Hirsh Nanda²; ¹Janssen Research & Development,
 Spring House, PA; ²Janssen Research and Development,
 Spring House, PA
- TP 581 Quantitation of Host Cell Contaminants in Biotherapeutic IgG using LC-ToF-MRM with SILAC Labeled Reference Standards; Tyler Fletcher¹; Marla Popov²; Stuart Haslam³; Ron Orlando^{1,2}; *1University of Georgia, Athens, GA; *2Glycoscientific LLC, Athens, GA; *3Imperial College, London, United Kingdom
- TP 582 Immunocapture-LC/MS and LBA-Based Assays as Complementary and Orthogonal Tools for Developing Fusion Protein Therapeutics; Susan Chen; Takeda Pharmaceuticals, Inc., Cambridge, MA
- TP 583 Validation of Amino Acid-Based Isotope Dilution LC-MS/ MS Quantification of Insulin Standard Solution Using Sulfur-Based Isotope Dilution ICP/MS; Hwijin Kim^{1,2}; Ji-Seon Jeong^{1,2}; Thi Thanh Huong Tran^{1,2}; Youngran Lim²; Sung Woo Heo²; Yong-Hyeon Yim^{1,2}; ¹University of Science and Technology (UST), Daejeon, South Korea; ²KRISS, Daejeon, South Korea
- TP 584 Impact of Endogenous Biotin on Streptavidin Based
 Hybrid LBA-LC/MS Assays for Biotherapeutics; Eric Ma¹;
 Moucun Yuan¹; William R Mylott Jr¹; ¹PPD, Richmond, VA
- TP 585

 Biotransformation of Challenging New Modalities Characterization and Quantitation of Antibody Variant Fragmentation using Affinity Capture Coupled to LC-MS or CE-LIF; Cong Wu¹; William Sawyer¹; Phillip Chu¹; Neha Srikumar²; Nga Tang¹; Pamela Chan¹; Gloria Meng¹; Brian Roper³; Thomas Niedringhaus³; John Tran¹; ¹Biochemical and Cellular Pharmacology, Genentech, Inc., South San Francisco, CA; ²University of Pennsylvania, Philadephia, PA; ³Protein Analytical Chemistry, Genentech, Inc., South San Francisco, CA
- TP 586 Multi Attribute Monitoring in Therapeutic Glycoprotein Process Development: Benchmark of Different Sample Preparation, Mass Spectrometry Platform and Data



TP 588 Introducing MA-PAT: a Multi Attribute-Process
Analytical Technology to Monitor Protein Quality/
Quantity and Process Characteristics during
Biopharma Production; Jérôme Haustant¹; Sandrine
Fisch¹; Jérémy Peyrol¹; Emilie Navarro¹; Vivien Le Bras¹;
Cédric Mesmin¹; ¹Merck Biodevelopment, Martillac, France

TP 589 Employing the MS-based Multi-Attribute Method (MAM) for Automated Quality Monitoring of Biotherapeutics;

John N McCarter¹; Joe Shambaugh²; Aude Tartiere³; Albert Van Wyk⁴; Cassandra Wigmore⁵; Peter Haberl⁶; ¹Genedata, Inc., Lexington, MA; ²Genedata Inc, Lexington, MA, USA, Lexington, Massachusetts; ³Genedata, San Francisco, CA; ⁴Genedata Ltd, Cambridge, UK, Cambridge, United Kingdom; ⁵Genedata AG, Basel, Switzerland, Basel, Switzerland; ⁶Genedata GmbH, Munich, Germany, Munich, Germany

TP 590 Ultra-Sensitive Intact Monoclonal Antibody
Quantification Using Automated Sample Preparation
Platform and High-Resolution Mass Spectrometer; Xi
Qiu¹; Wendi Hale¹; David Wong²; ¹Agilent Technologies,
Wilmington, DE; ²Agilent Technologies, Santa Clara, CA

TP 591 A High Resolution Accurate Mass Multi-Attribute Method for Critical Quality Attribute Monitoring and New Peak Detection; Haichuan Liu¹; John Rontree¹;

†Thermo Fisher Scientific, San Jose, CA

TP 592 Monitoring Multiple Attributes of Biotherapeutics at Peptide Level Using a Single Quadrupole LC/MS for Quality Control; Linfeng Wu¹; Lisa Zang¹; Guannan Li¹;

'Agilent Technologies, Santa Clara, CA

TP 593 Comparison between Magnetic Bead and Membrane Immunoaffinity Purification Methods for the Measurement of Monoclonal Antibody in Rat Serum; Zhiyu Li¹; Zhiren Yu¹; Feifei Cui¹; Weiqun Cao¹; Lili Xing¹; Xin Zhang¹; Yi Tao¹; ¹WuXi AppTec, Shanghai, China

TP 594 Mass Spectrometric Evaluation of Host Cell Protein Patterns in Biopharmaceutical Products; <u>Daniel Michael Waldera-Lupa</u>1; Thomas Flad1; Andreas Dittmar1; Heiner Falkenberg1; Roland Moussa1; 1Protagen Protein Services, Dortmund, Germany

TP 595 Pre-Clinical Estimation of Cetuximab Using Nano-Surface and Molecular Orientation Limited (nSMOL)
Proteolysis and LC-MS/MS; Deepti Bhandarkar¹; Rashi
Kochhar¹; Shailendra Rane¹; Shailesh Damale¹; Ashutosh
Shelar¹; Purushottam Sutar¹; Anant Lohar¹; Bhaumik
Trivedi¹; Navin Devadiga¹; Ajit Datar¹; Pratap Rasam¹;
Jitendra Kelkar¹; ¹Shimadzu Analytical (India) Pvt. Ltd.,
Mumbai, India

TP 596 Quantitation of a PEGylated Human Parathyroid Hormone (1-34) Analog in Rat Plasma Using a Hybrid Immunoaffinity Bottom-Up LC-MS/MS Assay; Jean-Nicholas Mess¹; Jean-Francois Dupuis¹; Kevork Mekhssian¹; Erik Wagner²; Amy Wang²; Xin Xu²; Karim Berrada³; Max Moore³; Anahita Keyhani¹; ¹Altasciences, Laval, QC; ²National Center for Advancing Translational Sciences, NIH, Rockville, MD; ³Frederick National Laboratory for Cancer Research - Leidos Biomedical Research, Frederick, MD

TP 597 Investigation of Tissue Distributions of Therapeutic Monoclonal Antibody with Cassette Dosing Strategy and Novel LC/MS Based Method; Jie Pu¹; Shihan Huo¹; Chao Xue¹; Ming Zhang¹.²; Jun Qu¹.²; ¹SUNY, at Buffalo, Buffalo, NY; ²New York State Center of Excellence in Bioinformatics & Life Sciences, Buffalo, New York

TP 598 Quantitation of CHO Media Nutrients and Metabolites in under 180 seconds by an Integrated CE-MS Analyzer;

Kenion H. Blakeman¹; Ji Young Anderson¹; Colin M. Gavin¹;

Drew Blouch¹; Christopher D. Brown¹; Glenn A. Harris¹;

¹908 Devices, Inc., Boston, MA

TP 599 Application of Top Down Degradomics to Guide Development of Stable Antibody Variants; Phillip Chu¹; christopher Davies²; Cong Wu²; Tangsheng Yi²; James Koerber²; John C. Tran²; ¹Genentech Inc., South San Francisco, CA; ²Genentech, South San Francisco, CA

TP 600 Rapid, Sensitive, and Routine Intact mAb Quantification using a Compact Tof HRMS Platform; Yun Alelyunas¹; Henry Shion¹; Mark D Wrona¹; Weibin Chen¹; ¹Waters Corporation, Milford, MA

TP 601 Comprehensive Characterization of Antibody Drug Conjugates Enabled by Top-down and Middle-down Mass Spectrometry Strategies; Eli J Larson¹; Bifan Chen¹; Ziqing Lin².³; Yanlong Zhu².³; Yutong Jin¹; Qingge Xu².³; Cexiong Fu⁴; Zhaorui Zhang⁴; Qunying Zhang⁴; Wayne A Pritts⁴; Ying Ge¹.².³; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; ²Department of Cell and Regenerative Biology, University of Wisconsin-Madison, Madison, WI; ³Human Proteomics Program, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI; ⁴Process Analytical Chemistry, AbbVie Inc., North Chicago, IL

TP 602 Evaluating Stability of Human Monoclonal Antibody in Rat Cell Cultures Using a Surrogate Peptide LC-MS/ MS Approach; Nadya Galeva¹; Reed Murbach¹; Krystal Gilligan¹; Kevin Westland¹; Seema Muranjan¹; ¹Sekisui XenoTech, LLC, Kansas City, KS

TP 603 An Integrated LC-MS Platform for Monitoring Quality Attributes of Biotherapeutic Products; Chengfeng Ren¹; Frank Macchi²; Monica Sadek²; Benjamin Moore²;

¹Genentech, South San Francisco, CA; ²Genentech Inc., South San Francisco, CA

TP 604 Non-Labelling Approach for Absolute Quantitation of Total Biotherapeutics and Simultaneous Detection of Blood Volume in Tissues Using LC/MS; Miho Ayabe¹; Naoaki Murao²; Masaki Ishigai³; Hiroyuki Tsunoda¹; ¹Chugai Pharmaceutical Co., Ltd., Kamakura, Japan; ²Chugai Pharmaceutical Co., Ltd., Gotemba, Japan; ³Chugai Pharmaceutical Co., Ltd., Chuo-ku, Japan

TP 605 Limited Tryptic Digestion-Isotope Dilution Mass Spectrometry (LTD-IDMS): An Alternative Potency Assay to Single Radial Immunodiffusion (SRID) for Influenza Vaccines; Tracie Williams¹; Hans C Cooper¹; John R Barr¹; **Centers for Disease Control and Prevention, Atlanta, GA

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TP 606 Taking Charge Variant Analysis to the Next Level:
Targeted and Automated Charge Variant-Coupled
Native Mass Spectrometry (CV-MS); Mauro Sassi¹;
Mara Rossi¹; Angelo Palmese¹; Merck KGaA, Guidonia
Montecelio, Italy

TP 607 NanoFlow LCMS and Dedicated Bioinformatics
Software for Rapid Semi-Automated Biotherapeutics
PTM Quantitation; Tun Liu¹; Jennifer Nemeth-Seay²;
Michael Merriman³; Sean McCarthy³; ¹Janssen Research &
Development, Spring House, PA; ²Janssen Research and
Development, Spring House, PA; ³Sciex, Framingham, MA

TP 608 Characterization of Protein Therapeutics Using ZipChip Microfluidic Capillary Electrophoresis-Mass Spectrometry; Ekaterina G. Deyanova¹; Richard Huang¹; Pradyot Nandi¹; Priyanka Madia¹; Guodong Chen¹; ¹Bristol-Myers Squibb Company, Princeton, NJ



- TP 609 Using Hydrogen Exchange-Mass Spectrometry (HX-MS) to Identify Agitation-Induced Unfolding Events
 Causing Aggregation in Monoclonal Antibodies (mAbs);
 Chamalee D Gamage¹; David D. Weis¹; Benjamin Walters²;

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- TP 610 Analysis of Aggregation-Prone Full-Length Antibodies
 Using FPOP-LC-MS/MS; Owen Cornwell¹; Nicholas J
 Bond²; Sheena E Radford¹; Alison E Ashcroft¹; ¹University of
 Leeds, Leeds, United Kingdom; ²MedImmune, Cambridge,
 United Kingdom
- TP 611 Assessing the Protein A Binding Affinity of Monoclonal Antibody Variants Using Protein A Chromatography Coupled to Native Mass Spectrometry; Victoria C.

 Cotham¹; Shunhai Wang¹; Thomas J. Daly¹; Ning Li¹;

 Regener
- TP 612 An Efficient LC/MS Workflow for Identification and Monitoring of Host Cell Proteins for Assisting Monoclonal Antibody Purification; Catalin Doneanu¹; Malcolm Anderson²; Alex Xenopoulos³; Romas Skudas⁴; Ying Qing Yu¹; Asish Chakraborty¹; Weibin Chen¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Wilmslow, United Kingdom; ³EMD Millipore Corporation, Bedford, MA; ⁴Merck KGaA, Darmstadt, Germany
- TP 613 A Specific and Sensitive LC-MS/MS PRM Method to Quantify C-Terminal Lysine Clipping in Monoclonal Antibodies; Lei Wang¹; Mei M Zhu¹; Charles Nwosu¹; Anne Kowal¹; ¹Takeda Pharmaceuticals, Inc., Cambridge, MA
- TP 614 A Comprehensive Physicochemical Characterization of an Original and Biosimilar Tenecteplase by Mass Spectrometry Methods; Maksim Degterev¹; Maxim Smolov¹; Alexander Vishnevskiy¹; Rakhim Shukurov¹; **IBC Generium, Vol'ginskiy, Russian Federation
- Primary Structures of Intact DTPA-Coupled
 Recombinant Epidermal Growth Factors can be
 Evaluated via MS-Based Chemical Formula Verification;
 Yen-chun Huang¹; Yu-Hsuan Lin¹; Ya-Fen Chen²; C Allen
 Chang³; Yeou-Guang Tsay¹,⁴; ¹Institute of biochemistry and
 molecular biology, National Yang-Ming University, Taipei,
 Taiwan; ²Sunjet Co., Ltd., Taipei, Taiwan; ³Department of
 Biomedical Imaging and Radiological Sciences, National
 Yang-Ming University, Taipei, Taiwan; ⁴Proteomics Research
 Center, National Yang-Ming University, Taipei, Taiwan
- TP 616 Identifying Early Production Truncated Drug Candidates by Top-Down Mass Spectrometry; Zhe Zhang; Novartis, Cambridge, MA
- TP 617 Rapid Critical Quality Attribute Assessment of
 Biotherapeutic Proteins Using an Automated Top-Down
 Sequencing LC-MS Workflow; Matthew Maust¹; Li Cui¹;
 Greg Kilby¹; Juan Aon¹; Keegan Orzechowski¹; Wilfred
 Tang²; Michelle English²; Marshall Bern²; ¹GlaxoSmithKline,
 Collegeville, PA; ²Protein Metrics Inc., Cupertino, CA
- TP 618 Characterization of Peptide with Disulfide Bond Linkage on LC Time Scale with Differential Mobility and ECD Fragmentation; Suya Liu¹; Yves Le blanc²; Doug Simmons¹; Pavel Ryumin¹; Takashi Baba¹; ¹SCIEX, Concord, ON; ²SCIEX, Concord, On, ON
- TP 619 Advancements in Native Analysis by Microchip Capillary Electrophoresis-ESI-MS; J. Scott Mellors¹; Ashley Bell²; Erin A. Redman¹; ¹908 Devices, Inc., Carrboro, NC; ²908 Devices, Boston, MA
- TP 620 Novel Analytical Paradigm for Accurate Characterization and Routine Monitoring of Deamidation and Succinimide Intermediate in Biotherapeutic Proteins; Sergei Saveliev¹; Mingyan Cao²; Sri Hari Raju Mulagapati²; Bhargavi Vemulapati²; Jihong Wang²; Alan Hunter²; Marjeta Urh¹; Dengfeng Liu²; ¹Promega Corporation, Madison, WI; ²MedImmune, Gaithersburg, MD

- TP 621 Structural Characterization of Peptide-Loaded Major Histocompatibility Complexes (pMHC) through Top Down Native Mass Spectrometry; Dhanashri Bagal¹; Songyu Wang¹; Bradford W. Gibson²; ¹Amgen, South San Francisco, CA; ²Amgen, South San Francisco, CA
- TP 622 Analysis of Antibody Subunits by ETD Parallel Ion Parking on a Chromatographic Timescale; <u>Joshua D. Hinkle</u>¹; Emily Zahn¹; Robert D'Ippolito¹; Elizabeth Duselis¹; Dina L. Bai¹; Jeffrey Shabanowitz¹; Donald F. Hunt¹; 'University of Virginia, Charlottesville, VA
- TP 623 High Resolution Separations for Detailed LC/MS
 Analysis of mAb Disulfide Variants; Barry Boyes¹; William
 E Miles²; Ben Libert¹; ¹Advanced Materials Technology
 Inc., Wilmington, DE; ²Advanced Materials Technology,
 Wilmington, DE
- TP 624 Ultra-Comprehensive Antibody Fc-Fusion Protein Characterization Using a Tribrid Orbitrap Mass Spectrometer Modified for PTR and Extended Mass Range Applications; Aaron O Bailey¹; Yi Zeng¹; Joshua Silveira²; Kristina Srzentić²; Christopher Mullen²; John E. P. Syka²; Romain Huguet²; Siqi Liu³; Guanghui Han¹; ¹BGI Americas, San Jose, CA; ²Thermo Fisher Scientific, San Jose, CA; ³BGI-Shenzhen, Shenzhen, China
- TP 625 Not All IgG1 Monoclonal Antibody Disulfide Bonds Are Created Equal; Andrew Dykstra¹; Neeraj Agrawal¹; ¹Amgen, Thousand Oaks, CA

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- TP 626 Protein Phosphorylation Landscape of Mouse Spermatids During Spermiogenesis; Yan Li¹; Yiwei Cheng¹; Tianyu Zhu¹; Hao Zhang¹; Hui Zhu¹; Xuejiang Guo¹; ¹Nanjing Medical University, Nanjing, China
- TP 627 Identification and Validation of Calcineurin Interactors;

 Brooke Brauer¹; Sarah Sheftic²; Isha Nasa¹; Thomas Moon²;

 Rebecca Page²; Wolfgang Peti²; Arminja N Kettenbach¹;

 ¹Dartmouth College, Hanover, NH; ²University of Arizona,

 Tucson, AZ
- TP 628 A Quantitative Chemical Proteomic Analysis of Cysteine Reactivity; Evan W. McConnell¹; Leslie M. Hicks¹; ¹UNC, Chapel Hill. NC
- TP 629 Proximity-Dependent Identification of *in vivo* Putative Substrates of Protein Kinases; Tomoya Niinae¹; Koshi Imami¹; Chia-Feng Tsai²; Naoyuki Sugiyama¹; Yasushi Ishihama¹; ¹Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan; ²PNNL, Richland, WA
- TP 630 High Sensitivity PTM Characterization in Cell Lysates
 Using Trapped Ion Mobility; Matthew Willetts¹; Shourjo
 Ghose¹; Gary Kruppa¹; Matthew P Stokes²; Charles
 Farnsworth²; Kimberly Lee²; ¹Bruker Scientific, Billerica, MA;
 ²Cell Signaling Technology, Danvers, MA
- TP 631 Phosphoproteomic Analyses of Multiple Species of Snakes Provides Insight into the Regulation of Intestinal Function and Regeneration; Abu Hena M Kamal¹;
 Blair Perry¹; Todd Castoe¹; Stephen M. Secor²; Saiful M. Chowdhury¹; ¹University of Texas at Arlington, Arlington, TX; ²University of Alabama, Tuscaloosa, AL
- TP 632 Proteomics of Diatoms: Discovery of Polyamine Modifications in Biosilica-Associated Proteins;

 Alexander Milentyev¹; Christoph Heintze²; Nicole Poulsen²; Nils Kroeger²; Matthias Wilm³; Andrej Shevchenko⁴; ¹Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden, Germany; ²Center for Molecular and Cellular Bioengineering (CMCB), Dresden, Germany; ³Conway Institute of Biomolecular and Biomedical Research, Dublin, Ireland; ⁴Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany



- TP 633 Creating a Functional Map of the Human Phospho-Proteome Using a "Big Data" Approach; David Ochoa¹; Andrew F. Jarnuczak¹; Pedro Beltrao¹; <u>Juan Antonio</u> Vizcaino¹; <u>*IEMBL-EBI, Hinxton, United Kingdom</u>
- TP 634 Determining the Phosphorylation Dynamics in Human Spliceosome; Kuan-Ting Pan¹; Ivan Silbern¹; Majety Naga Leelaram¹; Olexandr Dybkov¹; Reinhard Luehrmann¹; Henning Urlaub¹.²; ¹Max-Planck Inst for Biophysical Chemistry, Goettingen, Germany; ²University Medical Center Goettingen (UMG), Goettingen, Germany
- TP 635 Comprehensive Characterization of Biotherapeutic Degradation *in vivo* Using a Modified Orbitrap Tribrid with Extended Mass Range; Kristina Srzentic¹; Romain Huguet²; Luca Fornelli³; ¹Thermo Fisher Scientific, Cambridge, MA; ²Thermo Fisher Scientific, San Jose, CA; ³University of Oklahoma, Norman, OK
- TP 636 Combined GluC-Based Middle-Down and Top-Down Proteomics of Histone H4 in a Single Analysis; Matthew Holt¹; Tao Wang¹; Nicolas L Young¹; **Baylor College of Medicine, Houston, TX*
- TP 637 An Integrated Intact Mass and Bottom-Up Approach to Characterization of New Biologics; Hirsh Nanda¹;
 Bo Zhai¹; Andrew D Mahan¹; Harsha P. Gunawardena¹;
 Andrew C Nichols²; Jing Li²; Yong J. Kil²; Marshall Bern²;
 Eric Carlson²; ¹Janssen Research & Development, Cell & Developability Sciences, Spring House, PA; ²Protein Metrics Inc., San Carlos, CA
- TP 638 Characterization of S-Nitrosylation in Aged Rabbit Using Oxidized Cysteine-Selective cPILOT; Katarena Ford; Vanderbilt University, Nashville, TN
- TP 639 Bothrops Snake Venoms: Glycoproteomic Analysis and the Role of Sialic Acid in Toxin Function.; Carolina Brás Costa^{1, 2}; Débora Andrade Silva^{1, 2}; Daniela Cajado Carvalho¹; Solange Maria de Toledo Serrano¹; ¹Butantan Institute, São Paulo, Brazil; ²Chemistry Institute -USP, São Paulo, Brazil
- TP 640 Minimizing Deamidation During the Trypsin Digestion of Proteins; Paul R Collop¹; Ron Orlando²; ¹University of Georgia, Athens; ²University of Georgia, Athens, GA
- TP 641 A Rapid and Robust Protocol for Disulfide Bond Identification and Validation Using Pepsin/Trypsin Digestion and Spectrum Identification Machine;

 Chuanlong Cui¹; Tong Liu¹; Annie Beuve¹; Hong Li¹;

 Rutgers New Jersey Medical School, Newark, NJ
- TP 642 Analysis of Histones from HEK293 Cells Using a QTOF with Trapped Ion Mobility and PASEF Workflows;

 Shourjo Ghose¹; Matthew Willetts¹; Miranda Gardner²;

 Michael Freitas²; Gary Kruppa¹; ¹Bruker Scientific, Billerica, MA; ²The Ohio State University, Columbus, OH
- TP 643 Quantitative Proteomics Reveals Differential Huntingtin Ubiquitination and Global Proteome Changes in a Mice Model for Huntington's Disease; Karen A Sap¹; Arzu Tugce Guler¹; Aleksandra Bury¹; Karel Bezstarosti²; Jeroen A.A. Demmers²; Eric A. Reits¹; ¹Amsterdam UMC, Amsterdam, Netherlands; ²Erasmus MC, Rotterdam, Netherlands
- TP 644 The Invisible Link Connecting Autophagy and Alzheimer's Disease; Tyler R Lambeth¹; Dylan L. Riggs²; Ryan R. Julian²; ¹University of California-Riverside, Riverside, CA; ²University of California, Riverside, Riverside. CA
- TP 645 Orthogonal Approaches for Released N-Glycan Characterization and Quantification; Sean McCarthy¹; Zoe Zhang²; Elliott Jones²; ¹SCIEX, Framingham, MA; ²Sciex. Redwood Citv. CA
- TP 646 oxSWATH: An Integrative Method for a Comprehensive Redox-Centered Analysis Combined with a Generic Differential Proteomics Screening; Bruno Manadas¹; Matilde Melo¹; Liliana R Loureiro¹; Mário Grãos¹; Pedro

Castanheira²; Sandra I. Anjo¹; ¹Center for Neuroscience and Cell Biology, Cantanhede, Portugal; ²Biocant, Cantanede, Portugal

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- TP 647 Bacterial Identification Using Machine Learning Defined Peptide Signatures and its Validation by a Targeted Proteomics Approach under Routine Conditions;

 Clarisse Gotti-Barban¹; Florence Roux-Dalvai¹; Mickael Leclercq¹; Frédéric Fournier¹; Marie-Claude Hélie²; Judith Marcoux¹; Isabelle Kelly¹; Tabiwang N. Arrey³; Cristina C. Jacob⁴; Claire Dauly³; Claudia P.B. Martins⁴; Julie Bestman-Smith⁵; Maurice Boissinot²; Michel G. Bergeron²; Arnaud Droit¹; ¹Proteomics Platform, CHU de Québec Research Centre, Laval University, Québec, QC; ¹Infectiology Research Centre, CHU de Québec, Laval University, Québec, QC; ³Thermo Fisher Scientific, Bremen, Germany; ⁴Thermo Fisher Scientific, San Jose, CA; ⁵Enfant-Jésus Hospital, CHU de Québec, Laval University, Québec, QC
- TP 648 Dynamic Bovine Milk Proteome Alterations during Staphylococcus aureus Infection in Subclinical and Clinical Mastitis; Kiran Ambatipudi¹; Sudipa Maity¹; Debiprasanna Das²; ¹Indian Institute of Technology Roorkee, Roorkee, India; ²College of Veterinary Science and Animal Husbandry, Bhubaneswar, India
- TP 649 Identifying the Molecular Mechanisms of Sex-Specific Severity of the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Using Proteomics; Natarajan Bhanu¹; Simone Sidoli¹; Ranran Wu¹; Neeltje van Doremalen²; Vincent Munster²; Angela Rasmussen³; Benjamin A. Garcia⁴; ¹University of Pennsylvania, Philadelphia, PA; ²National Institutes of Health, Rocky Mountain Laboratories, Hamilton, MT; ³Columbia University Mailman School of Public Health, New York City, NY; ¹University of Pennsylvania, Philadephia, PA
- TP 650 Quantitative Proteomics Analyses of Neuronal Cells Exposed to HIV-1 Infected MDM Supernatants with High Cathepsin B Secretion; Camille N. Zenon¹; Estheisy Roman²; Abiel Roche Lima¹; Kelvin Carrasquillo Carrión¹; Yadira M Cantres Rosario¹; Loyda M. Melendez¹; ¹University of Puerto Rico Medical Sciences Campus, San Juan. PR: ²Universidad del Este. Carolina, Puerto Rico
- TP 651 Dynamic Proteomic Profiling of the Salmonella-Host Interplay Reveals New Modes of Action for Known and Novel Virulence Factors; Jennifer Geddes-McAlister¹; Stefanie Vogt²; Jennifer Rowland²; Sarah Woodward²; Baerbel Raupach³; Brett Finlay²; Felix Meissner⁴; ¹University of Guelph, GUELPH, ON; ²University of British Columbia, Vancouver, BC; ³Max Planck Institute for Infectious Biology, Berlin, Germany; ⁴Max Planck Institute of Biochemistry, Martinsried. Germany
- TP 652 New Insights in Formaldehyde-Induced Detoxification of the Tetanus Toxin: Chemical Modification Stoichiometry and Characterization of Intra- and Inter-Molecular Cross-Links; Nour AL Turihi^{1, 2}; Sébastien Peronin²; Arnaud Salvador¹; Fabien Barbirato³; Vincent Colombie³; Céline Rocca³; Catherine Jourdat³; Thierry Eynard²; Jérôme Lemoine¹; *Institut des Sciences Analytiques, UMR 5280 CNRS Université Lyon 1, Université de Lyon, Villeurbanne, France; *2MTech, Sanofi Pasteur, Neuville-sur-Saône, France; *3Sanofi Pasteur, Marcy l'Etoile, France
- TP 653 Analysis of Staphylococcus aureus Infections through Spatially Targeted Micro-Proteomics; Daniel Ryan^{1, 2}; Nathan H. Patterson^{2, 3}; James E. Cassat^{4, 5, 6, 7}; Eric P. Skaar^{4, 7, 8}; Richard M. Caprioli^{1, 2, 3, 9, 10}; Jeffrey M. Spraggins^{1, 2, 3}; **Department of Chemistry, Vanderbilt University, Nashville, TN; **Mass Spectrometry Research**



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Challenges in Clinical Metaproteomics Highlighted TP 654 by the Analysis of Acute Leukemia Patients with Gut Colonization by Multidrug-Resistant Entero bacteriaceae; Julia Rechenberger1; Patroklos Samaras1; Anna Jarzab1; Juergen Behr2; Martin Frejno1; Ana Djukovic3; Jaime Sanz^{4, 5}; Eva M. González-Barberá⁴; Miguel Salavert⁴; Jose Luis López-Hontangas⁴; Karina B. Xavier⁶; Laurent Debrauwer^{7, 8}; Jean-Marc Rolain⁹; Miguel Sanz^{4, 5}; Marc Garcia-Garcera¹⁰; Mathias Wilhelm¹; Carles Ubeda^{3, 11}; Bernhard Kuster^{1, 2}; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; ²Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany; 3Centro Superior de Investigación en Salud Pública-FISABIO, Valencia, Spain; 4Hospital Universitari i Politècnic La Fe, Valencia, Spain; 5CIBERONC, Instituto Carlos III, Madrid, Spain; 6Instituto Gulbenkian de Ciência, Oeiras, Portugal; ⁷Toxalim, Université de Toulouse, INRA, INP-ENVT, INP-EI-Purpan, Université de Toulouse 3 Paul Sabatier, Toulouse, France; 8Axiom Platform, UMR 1331 Toxalim, MetaToul-MetaboHUB, National Infrastructure of Metabolomics and Fluxomics, Toulouse, France; 9Aix Marseille Univ, IRD, APHM, MEPHI, IHU-Méditerranée Infection, Marseille, France: 10 Department of Fundamental Microbiology, University of Lausanne, Lausanne, Switzerland; 11 Centers of Biomedical Research Network (CIBER) in Epidemiology and Public Health, Madrid, Spain

TP 655 Analysis of Zika Viral Polyprotein N- and O-glycosylation Using a Novel Lectin-chemoenzymatic Enrichment; Shuang Yang¹; Felipe Assis¹; Wells W. Wu¹; Johnathan Sjögren²; Lisa Parsons¹; Helén Nyhlén²; Philip Onigman³; Rong-Fong Shen¹; Maria Rios¹; John F. Cipollo¹; ¹CBER, FDA, Silver Springs, MD; ²Genovis AB, Lund, Sweden; ³Genovis Inc., Cambridge, MA

TP 656 Comprehensive Analysis of the Human Cytomegalovirus Interactome to Identify Key Hubs of Protein Degradation; Luis Nobre¹; Katie Nightingale¹; Benjamin J Ravenhill¹; Robin Antrobus¹; Gavin W.G. Wilkinson²; Richard J Stanton²; Edward L Huttlin³; Michael Weekes¹; ¹University of Cambridge, Cambridge, United Kingdom; ²University of Cardiff, Cardiff, United Kingdom; ³Harvard Medical School, Boston, MA

TP 657 Scalable Proteomic Analysis of Microbes (SPAM): A New Weapon in the Global Fight Against Antimicrobial Resistance; Annegret Ulke-Lemee¹; Thomas Rydzak¹; Laurent Brechenmacher¹; Soren Wacker¹; Troy Feener¹; Mario E. Valdes-Tresanco¹; Tara Winstone²; Sergei Y. Noskov¹; Deirdre Church²; Ian A. Lewis¹; *1University of Calgary, Calgary, AB; *2Calgary Laboratory Services, Calgary, AB

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TP 658 Multiple Ion Chromatogram (MIC) for Direct
Quantification of Intact Proteins Using Q-TOF Mass
Spectrometry; Yonghai Lu¹; Jie Xing¹; Djohan Kesuma¹;
Zhaoqi Zhan¹; ¹Shimadzu Asia Pacific, Singapore, Singapore

- TP 659 Impaired Degradation Dynamics of Synaptic Vesicle Machinery in APPKI Mice; Nalini R Rao¹; Ewa Bombawarczak¹; Timothy Hark¹; Jeffrey N. Savas¹; ¹Northwestern University, Chicago, IL
- TP 660 Mass Spectrometry in the Development of Better Coagulation Tests: Quantitation and Proteoform Characterization of Antithrombin; Renee Ruhaak¹; Fred P.H.T.M. Romijn¹; Mervin Pieterse¹; Jan Nouta¹; Nico Smit¹; Elena Dominguez-Vega¹; Yuri E.M. van der Burgt¹; Manfred Wuhrer¹; Christa M. Cobbaert¹; ¹LUMC, Leiden, Netherlands
- TP 661 The Strange Case of "Picket Fence" Peaks: A Study in the Complexity of MS/MS Spectra of Protein Ions; John E. P. Syka¹; Joshua D. Hinkle²; Christopher Mullen¹; Robert D'Ippolito²; Romain Huguet¹; Lissa C. Anderson³; Jeffrey Shabanowitz²; Donald F. Hunt²; 'Thermo Fisher Scientific, San Jose, CA; 'University of Virginia, Charlottesville, VA; 'NHMFL, Florida State Univ., Tallahassee, FL
- TP 662 A Direct Computational Approach to the Analysis of Multiply Charged Biomolecules and Their Modifications with Electrospray Mass Spectrometry; Ning Zhang¹; Shundi Shi²; Shenglong Zhang¹; David Good³; Don Kuehl⁴; Yongdong Wang⁴; ¹Department of Life Sciences, New York Institute of Technology, New York, NY; ²Department of Chemical Engineering, Columbia University, New York, NY; ³Covance Laboratories Inc., Madison, WI; ⁴Cerno Bioscience, Norwalk, CT
- TP 663 Top-down Proteomics and Metabolomics based Profiling and Characterization of Collagen by LC-QTOF-MS; Tao Jiang¹; Todd Osiek¹; Xuejun Peng²; ¹Mallinckrodt, Hazelwood, MO; ²Bruker Daltonics Inc., San Jose, CA
- TP 664 Liquid Chromatography Triple Quadrupole Mass Spectrometry for Top-Down Quantitative Analysis of Low Abundance Intact Proteins from Biological Samples; Katarina Marakova¹; Joshua Lee Isaacs²; Alex J Rai³; Kevin A Schug²; ¹Comenius University in Bratislava, Bratislava, Slovakia; ²The University of Texas at Arlington, Arlington, TX; ³Columbia University, New York, NY
- TP 665

 1400 Proteoforms Identified from Five Micrograms of Escherichia coli Proteins Using Online 2D pH RP/RPLC Top-Down Mass Spectrometry; Zhe Wang¹; Dahang Yu¹; Xiaowen Liu²; Kenneth Smith³; Si Wu¹; ¹University of Oklahoma, Norman, OK; ²IUPUI, Indianapolis, IN; ³Oklahoma Medical Research Foundation, Oklahoma City, OK
- TP 666 "Intact Preteomictrum" from Intact-Protein List between 10kDa to 200kDa in Eukaryotic Cell with in Trap-MALDI Mass Spectrometer; Shih-Chieh Yang¹; Szu-Wei Chou¹; Yi-Teng Hsiao¹; pin-duo lee¹; ¹AcroMass technologies, Inc., Taipei, Taiwan

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- TP 667 Toward Robust and High-Throughput Single Cell Proteomics Based on TMT Based Nanodroplet Sample Processing and Ultrasensitive LC-MS; Maowei Dou¹; Geremy C. Clair¹; William B. Chrisler¹; Kerui Xu¹; Ryan L. Sontag¹; Rui Zhao¹; Ronald J. Moore¹; Derek Bailey²; Greg A. Foster²; Daniel Lopez-Ferrer²; Richard D. Smith¹; Wei-Jun Qian¹; Ryan T. Kelly¹.³; Charles K. Ansong¹; Ying Zhu¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Thermo Fisher Scientific, San Jose, CA; ³Brigham Young University, Provo, UT
- TP 668 Application of Probabilistic Information Retrieval for Ultra Rapid Peptide Sequencing Utilizing
 Comprehensive Protein Isoform Databases; Jeffrey
 J. Jones¹; Ryan Benz¹; ¹SoCal Bioinformatics Inc.,
 Montrose. CA
- TP 669 Extremely Long-Lived Mitochondrial Proteins in Neuronal Health and Aging; Ewa Bomba-warczak; Jeffrey N. Savas¹; Journal Jeffrey N. Savas¹; Journal Jeffrey N. Savas¹; Journal Jeffrey Jeffrey



- TP 670 Single Cell Proteomic Analysis Using PASEF; Catherine
 C L Wong; Center for Precision Medicine Multiomics
 Research, Peking University, Beijing, China
- TP 671 Enriching Low Abundance APEX2 Biotin Modifications from Complex Mixtures; Morgan Hepburn¹; Frances Snider¹; James D McGhee¹; David C Schriemer¹; ¹University of Calgary, Calgary, AB
- TP 672 Spatiotemporally-Precise Proximity Proteomics Reveals Nuclear Lamina-Peripheral Chromatin Interactome in vivo; Xi Zhang¹; Kanishk Abhinav²; Tess Branon³; Alice Ting³; John R. Yates, III²; Larry Gerace²; ¹Scripps, La Jolla; ²Scripps Research, La Jolla, CA; ³Stanford University, Stanford, CA
- TP 673 Ultra-Fast Proteomics Enabled by Scanning SWATH and High-Flow Chromatography; Christoph B Messner¹; Vadim Demichev².³; Spyros Vernardis³; Nic Bloomfield⁴; Gordana Ivosev⁴; Fras Wasim⁴; Stephen Tate⁴; Kathryn Lilley²; Markus Ralser³.⁵; ¹Francis Crick Institute, London, United Kingdom; ²Department of Biochemistry, University of Cambridge, Cambridge, United Kingdom; ³The Francis Crick Institute, London, United Kingdom; ⁴SCIEX, Concord, ON; ⁵Charité, Berlin, Germany
- TP 674 Proteomic Analysis of Rhizopus microsporus IOC4686
 Fungus Isolated from Mining Environment: Screening
 for Protein Biomarkers Induced by Copper; Meriellen
 Dias¹; Thalles Jocelino Gomes de Lacerda²; Lidiane Maria
 Andrade¹; Claudio Augusto Oller do Nascimento¹; Enrique
 Eduardo Rozas Sanchez¹; Maria Anita Mendes¹; ¹Dempster
 MS Lab- Poli-USP, Sao Paulo, Brazil; ²Federal University of
 São Paulo, Sao Paulo-SP, Brazil
- TP 675 Chlorella vulgaris Microalgae: Proteomic Changes Due to Copper; Lidiane Maria de Andrade¹; Meriellen Dias²; Cristiano José de Andrade³; Maria Anita Mendes²; Jorge Alberto Soares Tenório⁴; Claudio Augusto Oller Nascimento²; ¹Dempster MS Lab- Poli-USP, São Paulo, Brazil; ²Dempster MS Lab- Poli-USP, Sao Paulo, Brazil; ³LiEB Integrated Laboratory of Biological Engineering Department of Chemical Engineering and Food Engineering Federal University of Santa Catarina (UFSC), Florianópolis, Brazil; ⁴LAREX-Laboratory of Recycling, Waste Treatment and Extraction-Poli-USP, São Paulo, Brazil
- TP 676 Novel Functional Proteomic Approach to Dissect G9a Interactomes Associated with Breast Tumorigenesis;

 Adil Muneer¹; Ling Xie¹; Li Wang¹; Jin Jian²; Xian Chen¹.

 ³; ¹Department of Biochemistry & Biophysics, University of North Carolina at Chapel Hill, Chapel Hill, NC; ²Department of Pharmacological Sciences and Oncological Sciences, Icahn School of Medicine at Mount Sinai, New York City, NY; ³Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- TP 677 Comparison and Optimization of Exosome Digestion and Fractionation Methods for Discovery Proteomic Analysis; Elizabeth Nunn¹; Nancy Sharkawy¹; Amy-Joan L. Ham¹; ¹Belmont University, Nashville, TN
- TP 678 Moving Towards Single-Cell Proteomics on a TIMSqTOF Mass Spectrometer with PASEF; Andreas-David Brunner¹; Florian Meier¹; Markus Lubeck²; Niels Goedecke²; Heiner Koch²; Scarlet Koch²; Oliver Raether²; Matthias Mann¹; ¹Max-Planck Institute of Biochemistry, Planegg, Germany; ²Bruker Daltonik GmbH, Bremen, Germany
- TP 679 Cysteine Directed Proteolysis for Middle Down Proteomics; Joe R. Cannon¹; J. Wade Harper²; Mark Cancilla¹; ¹Merck & Co., Inc., West Point, PA; ²Harvard Medical School, Boston, MA
- TP 680 Proteomic Characterization of RAS-Signaling; German Monogarov¹; Audrey Bettoun²; Yael Aylon²; Moshe Oren²; Jeroen Krijgsveld¹; ¹German Cancer Research Center (DKFZ), Heidelberg, Germany; ²Weizmann Institute of Science, Rehovot, Israel

- TP 681 Microflow DIA Using 15min Gradients Analyzes 40 Tumor Proteomes per Day and Effectively Detects Promising Protein Biomarkers; Rui Sun¹; Christie Hunter²; Chen Chen³; Huanhuan Gao¹; Xue Cai¹; Qiushi Zhang¹; Bo Wang⁴; Xiaoyan Yu⁵; Xiaodong Teng⁴; Lirong Chen⁵; Ruedi Aebersold⁶; Yi Zhu¹; Tiannan Guo¹; ¹School of Life Sciences, Westlake University, 18 Shilongshan Road, Hangzhou 310024, Zhejiang Province, China, Hang Zhou, China; ²Sciex, Redwood City, CA; ³Sciex, Shanghai, China; ⁴Department of Pathology, The First Affiliated Hospital of College of Medicine, Zhejiang University, Hangzhou, China; ⁵Department of Pathology, The Second Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China: ⁶Department of Biology, Institute of Molecular Systems Biology, ETH Zurich, Switzerland, Switzerland
- TP 682 A Novel Strategy Enabled by a Photo-Cleavable Surfactant for Extracellular Matrix Proteomics;

 Samantha J Knott¹; Kyle Brown¹; Bifan Chen¹; Ying Ge¹·

 2.³; ¹The University of Wisconsin Madison's Department of Chemistry, Madison, WI; ²The University of Wisconsin Madison's Department of Cell and Regenerative Biology, Madison, WI; ³The University of Wisconsin Madison's Human Proteomics Training Program, Madison, WI
- TP 683 Comprehensive Evaluation of Shotgun Proteomics
 Using Thermo Scientific Orbitrap Fusion Lumos Mass
 Spectrometer with FAIMS Pro Interface; Yue Zhou¹; Min
 Huang¹; Xiangyun Yang¹; Mo Hu¹; Jing Li¹; ¹Thermo Fisher
 Scientific, Shanghai, China
- TP 684 New Insights on Marfan Syndrome from Comparative N-Terminomics of Human Marfan and Non-Diseased Aortas; Daniel Martin¹; Frank Cikach¹; Emidio Germano¹; Eric Roselli¹; Suneel Apte¹; ¹Cleveland Clinic, Cleveland. OH
- TP 685 Enhancing the Isolation of DNA-Binding Protein from Yeast for High Confidence Interactome Analysis; Ali Shariat-Panahi¹; Aditya Mojumdar¹; Jennifer A. Cobb¹; David C. Schriemer¹; ¹Department of Biochemistry and Molecular Biology, University of Calgary, Calgary, AB
- TP 686 Effects of Different Tissue Preserving Methods on Proteomic Results; Ruiqi Jian¹; Lihua Jiang¹; Huaying Fang¹; Meng Wang¹; Joanne Chan¹; Hua Tang¹; Mike Snyder¹; *Stanford University School of Medicine, Palo Alto
- TP 687 Plasma Proteomics Goes High Throughput; Raphael A Heilig¹; Thomas Kosinski²; Yuxin Mi³; Katie L Burnham³; Julian C Knight³; Heiner Koch²; Roman Fischer¹; ¹Target Discovery Institute, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom; ²Bruker Daltonik GmbH, Bremen, Germany; ³Wellcome Centre for Human Genetics, University of Oxford, Oxford, United Kingdom
- TP 688 Large Scale Un-Depleted Human Serum Proteome Profiling and Targeted LC-MS/MS Evaluation toward Biomarker Discovery for Alzheimer's Disease; Kaushik Kumar Dey¹; Hong Wang²; Mingming Niu²; Xusheng Wang²; yuxin Li²; Ji-Hoon cho²; Haiyan Tan²; Ashutosh Mishra²; Anthony High²; Thomas G Beach³; Junmin Peng²; ¹St Jude Children's Research Hospital, memphis, TN; ²St Jude Children's Research Hospital, Memphis, TN; ³Banner Sun Health Research Institute, Sun City, AZ
- TP 689 The Ultra-Soft Picosecond-Infrared Laser Multi-Tool for Sampling Tissues for Mass Spectrometric Omics;

 Hartmut Schluter¹; Marcel Kwiatkowski²; Marcus Wurlitzer¹;

 Andrey Krutilin¹,³; Frederik Busse³; Sascha Epp³; NilsOwe Hansen³; Wesley Robertson³,⁴; Dwayne R.J. Miller³;

 ¹UKE Mass Spec Proteomics, Hamburg, Germany;

 ²University of Groningen Faculty of Mathematics & Natural Sciences Pharmacokinetics, Toxicology and Targeting,
 Groningen, Netherlands; ³Max Planck Institute for the Structure & Dynamics of Matter, Atomically Resolved



- Dynamics Division, Hamburg, Germany; ⁴Georgia Institute of Technology, Georgia Tech Research Institute, Quantum Systems Division, Atlanta, GA 30318
- TP 690 A Novel, Small Molecule-Based Method for Tunable Cell-Surface Proximity Labeling to Enable Mapping of Immunomodulatory Receptor Protein Interactions; Rob Oslund¹; Niyi Fadeyi¹; Tamara Reyes Robles¹; Cory White¹; Jake Tomlinson¹; Kelly Crotty¹; David H. Perlman¹; Lee Roberts¹; Grazia Piizzi¹; Erik Hett¹; ¹Merck Exploratory Sciences Center, Cambridge, MA
- TP 691 A Labeling Enrichment Method Based on Synergistic and Reversible Covalent Interactions for Seleno Protein Analysis; Qingshi Meng¹; Hongfu zhang¹; Xiaohui feng¹; ¹Institute of Animal Sciences, CAAS, Beijing, China
- TP 692 Enhancing the Sensitivity of Microflow-Based Bottom-Up Proteomic Analyses by the Post-Column Addition of Organic Solvent Modifiers; <u>Ute Distler</u>¹; Mateusz Krzysztof Łącki¹; Markus Wanninger²; Stefan Tenzer¹; ¹University Medical Center Mainz, Mainz, Germany; ²Waters Corporation, Milford, MA
- TP 693 Combined Use of SAXS and LC-QTOF-MS in Structural Elucidation of Complex Biomolecules; Hlengilizwe

 Nyoni¹; Bhekie B. Mamba¹; Titus TAM Msagati¹; ¹University of South Africa, Johannesburg, South Africa
- TP 694 Utilizing Metabolic Isotope Labels to monitor protein and Lipid Metabolism to Integrate Alzheimer's Risk Factors into a Cohesive Model; Joseph Creery¹; Russell Denton¹; Isabella James¹; Kyle J Cutler¹; John Price²; ¹Brigham Young University, Provo, UT; ²*, Provo, UT

PROTEOMICS: QUANTITATIVE II 695-717

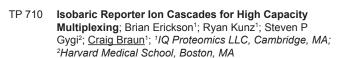
- TP 695 Understanding the Underlying Biological Pathways Affected by Treatment of Triple Negative Breast Cancer with Novel Natural Product Derivatives; Alisha Birk¹; Catherine C. Going¹; Dhanir Tailor²; Vineet Kumar²; Abel Bermudez¹; Fernando García-Marqués¹; Mallesh Pandrala²; Angel Resendez²; Meghan A. Rice¹; Tanya Stoyanova¹.³; Sanjay V. Malhotra¹.².³; Sharon J. Pitteri¹.³; ¹Department of Radiology, Canary Center at Stanford for Cancer Early Detection, Stanford University School of Medicine, Palo Alto, CA; ²Department of Radiation Oncology, Stanford University School of Medicine, Palo Alto, CA; ³Stanford Cancer Institute, Stanford University School of Medicine, Stanford CA
- TP 696 Block Design Enables Highly Reproducible Label-Free Quantitative Proteomics to Profile Cell Responses to Engineered Nanomaterials; Tong Zhang¹; Matthew J Gaffrey¹; Becky M Hess¹; Karl K Weitz¹; Ronald J. Moore¹; Brian D Thrall¹; Wei-Jun Qian¹; ¹Pacific Northwest National Laboratory, Richland, WA
- TP 697 Arc-Negative Extracellular Vesicles Promote
 Bidirectional Synaptic Communication through CaMKII;
 Yi-Zhi Wang¹; Samuel N. Smukowski¹; Claire Piochon¹;
 Ewa Bomba-warczak¹; Qionger He¹; Stacy A. Marshall¹;
 Elizabeth T. Bartom¹; Ali Shilatifard¹; Anis Contractor¹;
 Jeffrey N. Savas¹; ¹Northwestern University, Chicago, IL
- TP 698 Multiplex TMT Based Protein Quantification on timsTOF Pro with Parallel Accumulation and Serial Fragmentation Method; Pei Liu¹; Brian P. Mooney¹; Michael Sussman²; C. Michael Greenlief¹; ¹University of Missouri, Columbia, MO; ²University of Wisconsin-Madison, Madison, W/l
- TP 699 Quantitative Proteomics: A New Tool for Understanding the Complexity of a Fermentation Media and the Upstream Process of Bacterial Vaccine; Sebastien
 Peronin¹; Julia Novion-Ducassou¹; Thierry Eynard¹; ¹Sanofi Pasteur, Neuville-sur-Saône, France

- TP 700 Dawn to Sunset Fasting for Four Weeks Has A Unique Proteomic Signature in Healthy Subjects; Antrix Jain¹; Sung Yun Jung¹; Mustafa Abdulsada¹; Antone Opekun¹; Anna Malovannaya¹; Prasun Jalal¹; Ayse Mindikoglu¹;

 IBaylor College of Medicine, Houston, TX
- TP 701 Determining and Characterizing Substrates of Impaired Protein Degradation in Models of Alzheimer's Disease;

 <u>Timothy Hark</u>¹; Ewa Bomba-Warczak¹; Samuel N.

 Smukowski¹; Laith Ali¹; Jeffrey N. Savas¹; ¹Northwestern University, Chicago, IL
- TP 702 Bayesian Confidence Intervals for Multiplexed Proteomics Integrate Ion Statistics with Peptide Quantification Concordance; Leonid Peshkin¹; Meera Gupta²; Lillia Ryazanova²; Martin Wuhr²; ¹Harvard Medical School, Boston, MA; ²Princeton University, Princeton, NJ
- TP 703 A Super-Silac Method to Assess Myogenesis in Healthy vs Dystrophin-Deficient Muscle Cells; Mansi V Goswami¹; Emily Canessa¹; Yetrib Hathout¹; ¹School of Pharmacy and pharmaceutical Sciences, University of Binghamton, Binghamton, NEW YORK
- TP 704 Molecular Phenotypes Identification by Proteomic Profiling in Nemaline Myopathy Using timsTOF Pro Mass Spectrometer; Liwen Zhang¹; Sophie R. Harvey¹; Rebecca A. Slick².³,⁴; Jennifer A. Tinklenberg².³,⁴; Federica Montanaro⁵; Michael W. Lawlor²,³; ¹The Ohio State University, Columbus, OH; ²Department of Physiology, Medical College of Wisconsin,, Milwaukee, WI; ³Division of Pediatric Pathology, Department of Pathology and Laboratory Medicine and Neuroscience Research Center Medical College of Wisconsin,, Milwaukee, WI; ⁴Clinical and Translational Science Institute of Southeast Wisconsin, Medical College of Wisconsin,, Milwaukee, WI; ⁵Institute of Child Health, University College London, London, United Kingdom
- TP 705 Spatially-Resolved Neuroproteomics with IonStar Reveals Differential Landscapes of Signal Transduction Dysregulation in a Rat Ischemic Stroke Model; Shichen Shen¹; Min Ma²; Ming Zhang¹; David Poulsen¹; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Comprehensive Cancer Center, Buffalo, NY
- TP 706 Elucidating Novel Mechanisms of Action and Effects on Biological Pathways of Next Generation Anti-Cancer/Bacteria Complexes Using UHR-MS/MS; Kung Ching Cookson Chiu¹; Yuko P. Y. Lam¹; Christopher A. Wootton¹; Hannah Bridgewater¹; Feng Chen¹; Mark P. Barrow¹; John Moat¹; Peter J. Sadler¹; Peter B. O'Connor¹; ¹University of Warwick, Coventry, United Kingdom
- TP 707 Insights into NEDD8 Inhibition on Proteostasis with Multiplexed Proteome Dynamics Profiling and super-Resolution Orbitrap Mass Spectrometry; Nico Zinn¹; Konstantin Aizikov²; Dmitry Grinfeld²; Arne Kreutzmann²; Daniel Mourad²; Oliver Lange²; Maria Fälth-Savitski¹; Markus Queisser³; Alexander Makarov²; Marcus Bantscheff¹; ¹Cellzome, a GSK company, Heidelberg, Germany; ²Thermo Fisher Scientific, Bremen, Germany; ³GSK, Stevenage, United Kingdom
- TP 708 Carrier Proteome Effect in Mass Spectrometry Based Approaches to Single Cell Proteomics; Christopher M. Rose¹; Atticus McCoy¹; Donald S. Kirkpatrick¹; ¹Genentech, Inc., South San Francisco, CA
- TP 709 Intact Glycopeptide Analysis of Triple Negative Breast Cancer Cell Lines Using IsoTaG; Fernando Garcia-Marques¹; Catherine C. Going¹; Abel Bermudez¹; Marc D Driessen²; Alisha Birk¹; Carolyn R Bertozzi²; Christina Woo³; Sharon J. Pitteri¹; ¹Stanford University School of Medicine, Canary Center at Stanford for Cancer Early Detection, Palo Alto, CA; ²Department of Chemistry and Howard Hughes Medical Institute, Stanford University, Stanford, CA; ³Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA



- TP 711 Detection of Peptide Level Changes in Cerebro Spinal Fluid Proteomes of Neurodegenerative Disease by Data-Independent Acquisition; Deanna Plubell¹; Eric Huang¹; Michael S. Bereman²; Thomas Montine³; Michael J MacCoss¹; ¹University of Washington, Genome Sciences, Seattle, WA; ²North Carolina State University, Raleigh, NC; ³Stanford University, Stanford, CA
- TP 712 Investigation and Characterization of the Jumping Translocation Breakpoint (JTB) Protein Using Mass Spectrometry Based Proteomics; Madhuri Jayathirtha¹; Devika Channaveerappa¹; Kangning Li¹; Costel C Darie¹; ¹Clarkson University, Potsdam, NY
- TP 713 Effects to the Human Proteome Due to Legacy Chemical Exposure in the Great Lakes; Emmalyn J.

 Dupree¹; Bernard Crimmins¹; Thomas Holsen¹; James Pagano²; Brooke Thompson³; Krista Christensen³; Michelle Raymond³; Jon Meiman³; Costel C Darie¹; ¹Clarkson University, Potsdam, NY; ²SUNY Oswego, Oswego, NY; ³Wisconsin Department of Health Services, Madison, WI
- TP 714 High-Throughput Quantitative Profiling of Small GTPases in Brain Tissues of Alzheimer's Disease Patients; Ming Huang¹; Yinsheng Wang²; ¹University of California, Riverside, CA; ²University of California, Riverside, CA
- TP 715 **Discovery of Novel Guanine-Quadruplex-Unwinding Proteins**; Zi Gao¹; Lin Li¹; Preston Williams¹; Yinsheng
 Wang¹; ¹University of California, Riverside, Riverside, CA
- TP 716 Quantitative Profiling of Small GTPases in Secretome of Cultured Human Cancer Cells Using Scheduled MRM Coupled with Stable Isotope-Labeled Peptides;

 Tianyu Qi¹; Ming Huang¹; Yinsheng Wang¹; ¹UC Riverside, Riverside, CA
- TP 717 Proteome Quality Control Addressing Qualitative and Quantitative Needs for Trapped Ion Mobility Spectrometry and Parallel Accumulation Serial Fragmentation; Michael Krawitzky¹; Chris Adams¹; Conor Mullens²; Shourjo Ghose²; Matthew Willetts²; Gary Kruppa²; ¹Bruker Daltonics Inc., San Jose, CA; ²Bruker Daltonics Inc., Billerica, MA

PROTEOMICS: TOP DOWN ANALYSIS II 718-737

- TP 718 Proteoform Family Identification and Quantification Using Proteoform Suite; Leah V Schaffer¹; Michael R Shortreed¹; Anthony J Cesnik¹; Jarred W Rensvold²; Adam Jochem²; Trisha Tucholski¹; Mark Scalf¹; Brian L Frey¹; Ying Ge¹; David J Pagliarini¹,²; Lloyd M Smith¹; ¹University of Wisconsin Madison, Madison, WI; ²Morgridge Institute for Research, Madison, WI
- TP 719 An Iodine-Based N-Terminal Mass Defect Labelling Strategy for Improved de novo Top-Down Protein Sequencing; Lavrentis Dimitrios Galanopoulos¹; Lennete Kjaer¹; Adam Karpinski²; Sam Hughes¹; David J Clarke¹; ¹University of Edinburgh, Edinburgh, United Kingdom; ²University of Warsaw, Warsaw, Poland
- TP 720 FLASHDeconv: Ultra-Fast High-Quality Deconvolution Enables Online Processing of Top-Down MS Data; Kyowon Jeong¹; Jihyung Kim¹; Manasi Gaikwad²; Siti Nurul Hidayah²; Hartmut Schlüter²; Oliver Kohlbacher¹.³. 4.5.6; ¹Applied Bioinformatics, Department for Computer Science, University of Tübingen, Tübingen, Germany; ²Mass Spectrometric Proteomics, Institute of Clinical Chemistry and Laboratory Medicine, Campus Forschung, Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany; ³Center for Bioinformatics, University of

- Tübingen, Tübingen, Germany; *Center for Quantitative Biology, University of Tübingen, Tübingen, Germany; *Biomolecular Interactions, Max Planck Institute for Developmental Biology, Tübingen, Germany; *Translational Bioinformatics, University Hospital Tübingen, Tübingen, Germany
- TP 721 Isotope Pattern Matching Software for Mass Analysis of Intact Proteins; Greg T. Blakney¹; Lissa C Anderson¹; Allen G. Marshall¹; Christopher L. Hendrickson¹.²; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ²Florida State University, Tallahassee, FL
- TP 722 A Fast and High-Throughput Sample Preparation Platform Coupled with Top-Down Mass Spectrometry for Therapeutic Antibody Analysis; Hae-Min Park; Jared Drader²; Valerie J. Winton¹; Sheri Manalili-Wheeler²; Neil L. Kelleher¹; Philip D. Compton²; **Inorthwestern University, Evanston, IL; **Integrated Protein Technologies, Inc., Evanston, IL
- TP 723 Comprehensive Characterization of Kinases by Top-Down Mass Spectrometry; Zhijie Wu¹; Yutong Jin¹; Bifan Chen¹; Ying Ge¹; ¹University of Wisconsin, Madison, Madison, WI
- TP 724 Early Diagnostics of Clinical Samples by Top-Down Proteomics Using Capillary Electrophoresis-Electrospray Ionization-Mass Spectrometry (CESI-MS); Amir Prior¹; David Morgenstern¹; Alexandra Gabashvili¹; Dalia Elinger¹; Hila Wolf-Levy¹; Moshe E. Gatt²; Yishai Levin¹; ¹Weizmann Institute of Science, Rehovot, Israel; ²Hadassah-Hebrew University Medical School, Jerusalem, Israel
- TP 725 High-Throughput Top-Down FAIMS Data Analysis with ProSight PD Nodes in the Thermo Scientific Proteome Discoverer Software; Susan E. Abbatiello¹; Michael W. Belford²; Philip D. Compton³; Kenneth R. Durbin⁴; Ryan Fellers⁴; Vincent Gerbasi³; Joseph Greer⁴; Mick Greer⁵; David Horn²; Romain Huguet²; Neil L Kelleher³; Richard LeDuc⁴; Scott M. Peterman²; Paul M Thomas³; ¹Northeastern University, Boston, MA; ²Thermo Fisher Scientific, San Jose, CA; ³Northwestern University, Evanston, IL; ⁴Proteinaceous, Inc., Evanston, IL; ⁵Thermo Fisher Scientific, Austin. TX
- TP 726 Proteomic Characterization of Truncated Proteoforms in MDSC Extracellular Vesicles; Dapeng Chen¹; Fabio P Gomes¹; Suzanne Ostrand-Rosenberg²; Catherine Fenselau¹; ¹Department of Chemistry and Biochemistry, University of Maryland, College Park, MD; ²Department of Biological Sciences, University of Maryland Baltimore County, Baltimore, MD
- TP 727 **Top Down Quantitation of Oxidative Proteomics**; Surendar Tadi¹; Joshua S Sharp²; ¹University of Mississippi, Oxford, MS; ²University of Mississippi, University, MS
- TP 728 Native State Chemical Tagging Approaches for the Free Radical-Initiated Sequencing of Intact Protein Complexes; Carolina Rojas Ramirez¹; Daniel A. Polasky¹; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI
- TP 729 Direct Thermal Proteome Profiling Using Quantitative Top-Down Proteomics; Kellye A Cupp-Sutton¹; Zhe Wang¹; Si Wu¹; ¹University of Oklahoma, Norman
- TP 730 MASH Explorer, a Universal, Comprehensive, and User-Friendly Software Environment for Top-down Proteomics; Sean J Mcllwain¹; Zhijie Wu²; Kent Wenger³; Molly Wetzel³; Trisha Tucholski²; Xiaowen Liu^{4, 5}; Ruixiang Sun⁶; Irene M Ong^{1, 7}; Ying Ge^{2, 3, 8, 9}; ** Department of Biostatistics and Medical Informatics, University of Wisconsin, Madison, WI; ** Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706; ** Department of Cell and Regenerative Biology, University of Wisconsin-Madison, Madison, WI; ** Department of BioHealth Informatics, Indiana University-Purdue*



- University Indianapolis, Indianapolis, Indiana; ⁵Center for Computational Biology and Bioinformatics, Indiana University School of Medicine, Indianapolis, Indiana; ⁶Institute of Computing Technology, CAS, Beijing, China; ⁷Department of Obstetrics and Gynecology, University of Wisconsin-Madison, Madison, WI; ⁸Molecular and Cellular Pharmacology Program, University of Wisconsin, Madison, WI; ⁹Human Proteomics Program, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI
- TP 731 Comparison of ECD versus ETD for Low-Charge State Proteins in Orbitrap and Q-ToF Instruments; Yury V.

 Vasil'ev¹.²; Jared B. Shaw³; Valery G. Voinov¹.⁴; Joseph C.

 Meeuwsen⁵; Nathan I. Lopez¹.²; Joseph S. Beckman².⁶;

 ¹Linus Pauling Institute, Oregon State University, Corvallis,

 OR; ²e-MSion, Inc., Corvallis, OR; ³Pacific Northwest

 National Laboratory, Richland, WA; ⁴e-Msion Inc., Corvallis,

 OR; ⁵Oregon State University, Crovalis, OR; ⁶Linus Pauling

 Institute, Oregon State University,, Corvallis, OR
- TP 732 Targeting a Subset of the Membrane Proteome for Top-Down Mass Spectrometry; the Proteolipids that Extract into Chloroform; Whitaker Cohn¹; Lucy Gao¹; Julian Whitelegge¹; ¹University of California LA, Los Angeles, CA
- TP 733 Deep Intact Proteome Quantification Using Protein-Level Tandem Mass Tag (TMT) Labeling and Online 2D Liquid Chromatography; Dahang Yu¹; Zhe Wang¹; Kellye A Cupp-Sutton¹; Kenneth Smith²; Xiaowen Liu³; Si Wu¹; ¹University of Oklahoma, Norman, OK; ²Oklahoma Medical Research Foundation, Oklahoma City, OK; ³Indiana University-Purdue University Indianapolis, Indianapolis, IN
- TP 734 Investigating the Stability of Linear Polyacrylamide
 Coating for Capillary Zone Electrophoresis-Tandem
 Mass Spectrometry-Based Top-Down Proteomics; Tian
 Xu; Michigan State University, East Lansing, MI
- TP 735 Top-Down Proteomics in Support of the Industrial Milk Production Process; Catherine Rawlins^{1,2}; Stéphane Claverol²; Audrey Romelard³; Caroline Tokarski^{1,2}; ¹Institute of Chemistry and Biology of Membrane and NanoObjects, UMR CNRS 5248, Bordeaux, France; ²Proteome Platform, Center of Functional Genomics of Bordeaux, University of Bordeaux, Bordeaux, France; ³Ingredia Dairy Experts, Arras, France
- TP 736 Investigating the Protein Recovery of Membrane-Based Sample Preparation Methods for Top-Down Proteomics; Qianjie Wang; Michigan State University, East Lansing, MI
- TP 737 Top-Down Analysis of Snake Venom Proteoforms through de novo Sequencing; Kira Vyatkina¹; Daniel Petras²; ¹SPb Academic University, St Petersburg, Russian Federation; ²University of California, San Diego, CA

SMALL MOLECULES: QUALITATIVE ANALYSIS 738-756

- TP 738 Interpretation of Mass Spectrometric Data for Structure Elucidation of a New Endogenous Organosulfur Metabolite; Qibo Zhang¹; Lisa A. Ford¹; Anne M. Evans¹; Douglas R. Toal¹; ¹Metabolon, Morrisville, NC
- TP 739 Mass Spectroscopic Analysis of Phenol Derivatives by Gibbs Reaction; Sabyasachy Mistry; Purdue University, West Lafayette
- TP 740 An Efficient Approach to Oligomer Screening of Extractables Samples Using Liquid Chromatography Quadrupole Time-of-flight Mass Spectrometry (LC/Q-TOF); Kuang-Wei Yang¹; Jin Ren¹; Benben Song¹; ¹Pall Corporation, Westborough, MA
- TP 741 Pharmaceutical Degradation Product Profiling on an Orbitrap ID-X Tribrid Mass Spectrometry Platform;

 G. Charles Cheng¹; Kate J. Comstock²; Xiaojie C. Ding²; Seema Sharma²; ¹Blueprint Medicines, Cambridge, MA; ²Thermo Fisher Scientific, San Jose, CA

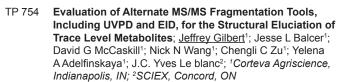
- TP 742 Investigation and Profiling of Organic Solvent Based Lithium Ion Battery Electrolytes and the Decomposition Products; Nan Hu; Agilent Technologies, Beijing, China
- TP 743 An Alternative Screening Protocol for Determining Amines in Industrial Materials Using Combined Flow Injection (FI) Electrospray-TOFMS and Electrospray-TOFMS/MS Methods; Dale A. Willcox¹; Jenan M. Elias²; Kelli Magarelli¹; Marshall Henry¹; ¹Intertek Allentown, Allentown, PA; ²Intertek, Allentown, PA
- TP 744 Identification of Degradation Products of Epirubicin Based on multiple heart-cut2D LC-Q TOF; Yaping Zhang¹; Hui Ouyang²; Congfang Lai³; ¹Agilent Technologies, Shanghai, China; ²Jiangxi University of Traditional Chinese Medicine, Nanchang, China; ³Agilent Technologies(China) Co. Ltd., Beijing, China
- TP 745

 Elucidating Disperse Dye Photodegradation Pathways
 Using Tandem Mass Spectrometry and Density
 Functional Theory; Ciera E Cipriani¹; Erol Yildirim²; Cody P
 Zane¹; Stephanie E Atkinson¹; Nelson R Vinueza¹; Melissa
 A Pasquinelli¹; *Iwilson College of Textiles, North Carolina
 State University, Raleigh, NC; *Institute of High Performance
 Computing, Agency for Science, Technology and Research,
 Singapore
- TP 746 Simplified Approach for Structural Elucidation and Quantitation for Pharmaceutical API and Related Impurities Using Q-TOF; Purushottam Janardan Sutar¹; Shailendra Rane¹; Shailesh Damale¹; Rashi Kochhar¹; Deepti Bhandarkar¹; Anant Lohar¹; Ashutosh Shelar¹; Bhaumik Trivedi¹; Navin Devadiga¹; Ajit Datar¹; Pratap Rasam¹; Jitendra Kelkar¹; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India
- TP 747 So Which Is It? In-Column Thermal Isomerization of Volatile Acid Emitted from Urethane Conformal Coating and Determining Identification Confidence; Curtis

 D. Mowry¹; Lance L. Miller¹; Jessica Roman¹; Adam S.

 Pimentel¹; Raymond Fuentes¹; Jason R. Brown¹; ¹Sandia National Laboratories. Albuquerque. NM
- TP 748 Development of LC-MS/MS Method to Detect and Evaluate Clinically Relevant Antibiotics in Human Stool Samples from Patients with Cholera; Laura Bailey¹; Ashton Marrazzo¹; Manasi Kamat¹; Eric J. Nelson¹; Kari B. Green¹; ¹University of Florida, Gainesville, FL
- TP 749 Improved Structural Characterisation of Molecules with a Chimeric Collision Cell with both Electron-Based and Collision-Induced Dissociation Capability;

 Yves Le blanc¹; Takashi Baba²; Pavel Ryumin²; Bill Loyd²; Eva Duchoslav²; ¹SCIEX, Concord, On, ON; ²SCIEX, Concord, ON
- TP 750 Detection of Reactive Dye from soil via QuEChERS extraction and Quadrupole Time-Of-Flight Mass Spectrometry; Xinyi Sui¹; Chengcheng Feng¹; Yufei Chen²; Mary Ankeny³; Nelson Vinueza¹; ¹North Carolina State University, Raleigh, NC; ²Jordi Labs, Mansfield, MA; ³Cotton Incorporated.. Cary, NC
- TP 751 Application of Mass Spectrometry for Studying the Degradation of Amino Acids and Volatile Organic Compounds by Chlorine Dioxide; Ngee Sing Chong¹; Abdul Hoque^{1, 2}; Heather Deal¹; Beng Guat Ooi¹; ¹Middle Tennessee State University, Murfreesboro, TN; ²University of Cincinnati, Cincinnati, OH
- TP 752 Identification of Impurities in the Organic Solvents Used in the Semiconductor Field by Using GC-HRTOFMS with EI/FI; Koji Okuda¹; John Dane¹; Robert Cody¹; ¹JEOL USA, Inc.. Peabody. MA
- TP 753 Selective Gas-Phase Mass Tagging via Ion/Molecule Reactions Combined with Single Analyzer Neutral Loss Scans to Probe Pharmaceutical Mixtures; Dalton T. Snyder¹; Lucas J. Szalwinski¹; Alice Pilo²; Nina K. Jarrah²; R. Graham Cooks¹; ¹Purdue University, West Lafayette, IN; ²Merck & Co., Inc., Rahway, NJ



TP 755 A New Electrochemical Route for Carbon-Carbon Bond Formation: Electrochemistry-Assisted Intermolecular [3+2] Annulation of N-cyclopropyl-3, 5-dimethylaniline and Styrene; Qi Wang¹; Qile Wang²; Nan Zheng²; Richard N Zare³; Yuexiang Zhang⁴; Hao Chen¹.⁴; ¹New Jersey Institute of Technology, Newark, NJ; ²University of Arkansas, Fayetteville, AR; ³Stanford University, Stanford, CA; ⁴Ohio University, Athens, OH

TP 756 Building Local Proprietary Libraries with Automated MSn Spectral Tree Curation and New Library Searching Tools; Xiaojie C. Ding¹; Kate J. Comstock²; Seema Sharma²; Mark Sanders²; Michal Raab³; ¹Thermo Scientific, San Jose, Ca, CA; ²Thermo Fisher Scientific, San Jose, CA; ³HighChem, Bratislava, Slovakia

SYSTEMS BIOLOGY 757-780

- TP 757 Molar Quantification of Metabolic Pathways Elucidates the Mechanism of Metabolic Shift In Caenorhabditis elegans; Bharath Kumar Raghuraman¹; Sider Penkov¹; Teymuras V. Kurzchalia¹; Andrej Shevchenko¹; ¹Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany
- TP 758 Using Highly-Multiplexed Panels of Quantitative MRM Assays to Establish Normal Tissue Protein Concentrations in Mice; Sarah Michaud1; Helena Pětrošová1; Angela Jackson1; Andrea L. Palmer1; Nicholas J. T. Sinclair¹; Ann Flenniken^{2, 3}; Lauryl Nutter^{2, 4}; Colin McKerlie^{2, 4}; Milan Ganguly^{2, 4}; Ingo Feldmann⁵; Olga Shevchuk⁵; Yassene Mohammed^{1, 6}; David Schibli¹; Albert Sickmann⁵; Christoph H. Borchers^{1,7,8,9}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC: ²The Centre for Phenogenomics, Toronto, ON; ³Lunenfeld-Tanenbaum Research Institute, Sinai Health System, Toronto, ON: 4The Hospital for Sick Children, Toronto, ON; 5Leibniz-Institut für Analytische Wissenschaften -ISAS – e.V., Dortmund, Germany; Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden, Netherlands; ⁷Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 8Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC: 9Gerald Bronfman Department of Oncology. Jewish General Hospital, McGill University, Montreal, QC
- TP 759 Interferon Stimulated Gene 15 Controls Phagosome Maturation; Frederic Lamoliatte¹; Tiaan Heunis¹; Anetta Svitorka Hartlova¹; Matthias Trost¹; ¹/CAMB, Newcastle University, Newcastle Upon Tyne, United Kingdom
- TP 760 Multi-Omics Profiling and Customized gRNA Library CRISPR-CAS9 Genomic Screening Identify Cancer Vulnerabilities in Brain Tumors; Hong Wang¹; Mingming Niu²; Timothy I. Shaw²; yuxin Li²; Ji-Hoon cho²; Anthony High¹; Vishwajeeth Pagala²; Xusheng Wang²; Junmin Peng¹; ¹St. Jude Children's Research Hospital, Memphis, TN; ²St.Jude children's Research hospi, Memphis, TN
- TP 761 Longitudinal Metaproteomic Characterization
 Simultaneously Reveals the Presence and Functions
 of Bacteria and Eukaryotes in the Gut Microbiomes of
 Preterm Infants; Samantha L. Peters^{1, 2}; Patrick T. West³;
 Feiqiao Brian Yu⁴; Brian A. Firek⁵; Michael J. Morowitz⁵;
 Jillian F. Banfield⁶; Robert L. Hettich^{2, 7}; ¹Oak Ridge
 National Laboratory, Oak Ridge, Tennessee; ²University of
 Tennessee, Knoxville, TN; ³University of California Berkeley,

- Berkeley, California; ⁴Chan Zuckerberg Biohub, San Francisco, CA; ⁵University of Pittsburgh School of Medicine, Pittsburgh, PA; ⁶University of California, Berkley, Berkeley, CA; ⁷Oak Ridge National Laboratory, Oak Ridge, TN
- TP 762 Advancing Insights in Molecular Regulation of Leishmania donovani by Integration of Multi-Omics Data.; Bart Cuypers^{1, 2}; Malgorzata A. Domagalska²; Pieter Meysman¹; Wout Bittremieux^{1, 3}; Hideo Imamura²; Dirk Valkenborg⁴; Geert Baggerman^{1, 5}; Inge Mertens^{1, 5}; Jean-Claude Dujardin^{1, 2}; Kris Laukens¹; ¹University Of Antwerp, Antwerp, Belgium; ²Institute Of Tropical Medicine, Antwerp, Belgium; ³University of Washington, Seattle, WA; ⁴University of Hasselt, Diepenbeek, Belgium; ⁵Vito, Mol, Belgium
- TP 763 A Novel HLA-Peptide Profiling Workflow Called MAPTAC (Mono-Allelic-Purification-with-Tagged-Allele-Constructs) Leverages Mass Spectrometry to Improve Neoantigen Prediction; Daniel Rothenberg¹; Jennifer Abelin¹; Dominik Barthelme¹; Rob C Oslund¹; Amanda L Creech¹; Tyler Colson¹; Scott P Goulding¹; Lia R Serrano¹; Chris Mcgann¹; Ying S Ting¹; Yusuf Nasrullah¹; Janani Sridar¹; Dewi Harjanto¹; Matt Malloy¹; Christina Kuksin¹; Joel Greshock¹; Terri A Addona¹; Michael S Rooney¹; ¹Neon Therapeutics, Cambridge, MA
- TP 764 MS-Based Metaproteomics Reveals Details of Microbiome Adaptation to Increasing Plant Biomass Substrate Loading to Maintain Undiminished Lignocellulose Solubilization; Payal Chirania^{1,2}; Suresh Poudel²; Richard J. Giannone^{1,2}; Xiaoyu Liang³; Evert K. Holwerda³; Lee R. Lynd³; Robert L. Hettich^{1,2}; **1University of Tennessee, Knoxville, Knoxville, TN; **2Oak Ridge National Laboratory, Oak Ridge, TN; **3Dartmouth College, Hanover, NH
- TP 765 Identifying Novel TBK1 Substrates Using an Optimized TMT-Based Phosphoproteomics Method; Laura E Herring¹; Emily M Wilkerson¹; Lianxin Hu¹; Dennis Goldfarb¹; Lee M Graves¹; Qing Zhang¹; ¹UNC-Chapel Hill, Chapel Hill, NC
- TP 766 Metagenomic-based Metaproteomic Functional Characterization of the Sargasso Sea in a Three Year Time Series Dataset; Mak Saito¹; Brian Searle²; Dawn Moran³; Jaci Saunders³; Noelle Held³; Chris Dupont⁴; Rod Johnson⁵; Matthew McIlvin³; ¹Woods Hole Oceanographic Inst., Woods Hole Ma 02543, MA; ²Institute for Systems Biology, Seattle, Washington; ³Woods Hole Oceanographic Institution, Woods Hole; ⁴J. Craig Venter Institute, La Jolla, CA; ⁵Bermuda Institute of Ocean Sciences, St. Georges, Bermuda
- TP 767 Single Colony Metaproteomes of a Marine Bacterium: Exploring Heterogeneity in the Natural Environment;

 Noelle Held^{1, 2}; Matthew McIlvin¹; Eric Webb³; Mak Saito¹;

 **IWoods Hole Oceanographic Institution, Woods Hole;

 **IMASSACHUSETTS INSTITUTE OF Technology, Cambridge, MA;

 **Juniversity of Southern California, Los Angeles, CA
- TP 768 Cellular Dynamics of Protein-Protein Interactions
 Mediated by Serine Phosphorylation; Kyle Mohler¹; Karl
 Barber¹; Jack Moen¹; Svetlana Rogulina¹; Jesse Rinehart¹;
 ¹Yale University, West Haven, CT
- TP 769 Quantitative Protein Expression and Phosphorylation Level Profiling Using 11-plex TMT Reagents:

 Application to 110 Yeast Kinase and Phosphatase Deletion Strains; Jiaming Li¹; Joao A. Paulo¹; David Nusinow¹; Edward Huttlin¹; Steven Gygi¹; ¹Harvard Medical School. Boston. MA
- TP 770 Targeted Proteomics-Driven Computational Modeling of the Mouse Macrophage Toll-like Receptor Signaling Pathway; Nathan P Manes¹; Jessica M Calzola¹; Pauline R Kaplan¹; Iain DC Fraser¹; Ronald N Germain¹; Martin Meier-Schellersheim¹; Aleksandra Nita-lazar¹; ¹National Institutes of Health, Bethesda, MD

ATLANTA

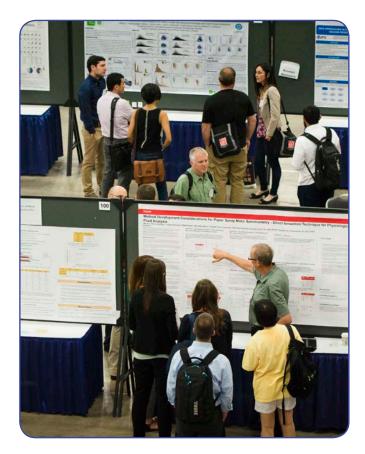
- TP 771 Universal Proteomic Approach of Capturing Novel and Dynamic Trafficking Organelle Assemblies; Nan Wang¹; Thomas Lee¹; Mary Katherine Connacher¹; Tianjing Hu¹; Scott Stuart¹; Natalie Ahn¹; ¹Department of Biochemistry, University of Colorado, Boulder, CO
- TP 772 Investigating Proteome Changes Caused by ABCA7
 Missense Variants that Confer Alzheimer's Disease Risk
 in African Americans; Tyra M. Avery¹; Kaitlyn E. Stepler¹;
 Prem Prakash²; Jamaine S. Davis²; Renã A.S. Robinson¹.

 3.4.5.6; ¹Vanderbilt University Department of Chemistry,
 Nashville, TN; ²Meharry Medical College Department of
 Biochemistry and Cancer Biology, Nashville, TN; ³Vanderbilt
 University Medical Center Department of Neurology,
 Nashville, TN; ⁴Vanderbilt Memory and Alzheimer's Center
 Vanderbilt University Medical Center, Nashville, TN;
 ⁵Vanderbilt Institute of Chemical Biology, Nashville, TN;
 ⁵Vanderbilt Brain Institute, Nashville, TN
- TP 773 A Peptidogenomics Approach Reveals the Identification of the Canidae hepcidin; Martin K Mead¹; Melissa Claus².³; Ed Litton⁴.⁵; Lisa Smart².³; Anthea Raisis².³; Gabriele Rossi².³; Robert D Trengove¹.⁶; Joel P. A. Gummer¹.⁶; ¹Separation Science and Metabolomics Laboratory, Research and Innovation, Murdoch University, Perth, Australia; ²College of Veterinary Medicine, Murdoch University, Perth, Australia; ³School of Veterinary Science, Murdoch University, Perth, Australia; ⁴Intensive Care Unit, Fiona Stanley Hospital, Perth, Australia; ⁵School of Medicine, University of Western Australia, Perth, Australia; ⁵Metabolomics Australia, Western Australia Node, Murdoch University, Perth, Australia
- TP 774 **Proteome-Wide Optimization of Orthogonal Translation Systems**; <u>Jack M Moen</u>¹; Kyle Mohler¹; Svetlana Rogulina¹;
 Jesse Rinehart¹; 'Yale University, West Haven, CT
- TP 775 **Proteotyping 30 Mouse Knockouts Using Targeted** Quantitative Plasma Proteomics with Heavy-Labeled Internal Standards and the Software Tool KOPF Gene: Yassene Mohammed 1, 2; Simon Roome1; Sarah A. Michaud1; Helena Pětrošová¹; Ann Flenniken^{3, 4}; Lauryl Nutter^{3, 5}; Colin McKerlie^{3, 5}; Milan Ganguly^{3, 5}; Christoph H. Borchers^{1, 6, 7,} 8; 1University of Victoria-Genome BC Proteomics Centre, Victoria, BC; ²Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden, Netherlands: ³The Centre for Phenogenomics, Toronto, ON; ⁴Lunenfeld-Tanenbaum Research Institute, Sinai Health System, Toronto, ON; 5The Hospital for Sick Children, Toronto, ON; ⁶Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 7Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; *Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- TP 776

 Top-down Proteomics for Deciphering Hypertrophic Cardiomyopathy in a Patient-Specific Engineered Cardiac Tissue Disease Model; Stanford D. Mitchell^{1, 2}; Willem J. de Lange³; Jianhua Zhang⁴; Gina Kim⁴; Trisha Tucholski⁵; Timothy J. Kamp¹,⁴; J. Carter Ralphe³; Ying Ge¹,²,⁵; *Department of Cell and Regenerative Biology, University of Wisconsin-Madison, Madison, Wl; ²Molecular and Cellular Pharmacology Graduate Training Program, Madison, Wisconsin; ³Department of Pediatrics, School of Medicine and Public Health, University of Wisconsin-Madison, MADISON, Wl; *Department of Medicine, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, Wisconsin; *Department of Chemistry, University of Wisconsin-Madison, Madison, Ml
- TP 777 Quantitative Lipidomics and Proteomics Analsyis of HDL Particles from Patient Samples Separated by Preparative Two Dimensional Gel Electrophoresis;

 Zsuzsanna Kuklenyik¹; Katrin Niisuke²; Michael Gardner¹;
 Antony Lehtikoski¹; Christopher Toth¹; John R Barr¹; Tomas

- Vaisar^{3, 4}; Bela Asztalos²; ¹Centers for Disease Control and Prevention, Atlanta, Georgia; ²Tufts University, Boston, MA; ³University of Washington, DEOHS, Seattle, WA; ⁴University of Washington, UWMDI, Seattle, WA
- TP 778 A Proteogenomic Systems Analysis Reveals
 Alterations in RNA Binding Proteins and RNA Splicing
 in Alzheimer's Disease Brain; Erik C.B. Johnson¹;
 Eric B. Dammer¹; Duc M. Duong¹; Luming Yin¹; Madhav
 Thambisetty²; Juan C. Troncoso³; James J. Lah¹; Allan I.
 Levey¹; Nicholas T. Seyfried¹; ¹Emory University, Atlanta,
 GA; ²National Institute on Aging, National Institutes of
 Health, Baltimore, MD; ³Johns Hopkins University School of
 Medicine, Baltimore, MD
- TP 779 Systematic AP/MS and Genetic Interaction Mapping of the Ras Pathway Reveals New Effectors and Vulnerabilities; Peter K Jackson¹; Marcus R Kelly¹; Kaja Kostyrko²; Kyuho Han¹; Michael Bassik¹; Alejandro Sweet-Cordero²; *Stanford University School of Medicine, Stanford, CA; *2UCSF, San Francisco, CA
- TP 780 Integrated Proteome and Phosphoproteome Analysis Suggest a Role of JNK3 in Myelination and Synaptic Function; Jan-Philip Schülke¹; Mercedes Priego Luque²; Norma Hernandez²; Daniel Bader¹; Barbara Kracher¹; Sarah Elschenbroich¹; <u>Uli Ohmayer</u>¹; Oxana Lavrova³; Jim Rosinski⁴; Christoph Schaab¹; Gerardo A Morfini²; Ignacio Munoz-Sanjuan³; ¹Evotec (München) GmbH, Martinsried, Germany; ²University of Illinois at Chicago, Department of Anatomy and Cell Biology, Chicago, IL; ³CHDI Foundation, Los Angeles, CA; ⁴CHDI Foundation, Princeton, NJ



WEDNESDAY POSTERS



Set up all Wednesday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 – 2:30 pm

Even-numbered posters present

10:30 am - 12:30 pm PLUS 1:30 - 2:30 pm

Remove all Wednesday posters 7:00 - 8:00 pm

Ambient Ionization: Applications I	001-031
Antibodies & Antibody Drug Conjugates II	032-064
Biomarkers: Discovery II	065-095
Biomarkers: Quantitative Analysis III	096-126
Biomolecular Structure Analysis: Chemical	
Crosslinking and Covalent Labeling II	127-153
Cannabis	154-179
Carbohydrates I	180-205
Clinical Analysis III	206-234
Drug Discovery/DMPK/ADME I	235-254
Food "omics" MS Characterization of Food	
and Nutritional Supplements	255-275
Food Safety III	
Fundamentals: Photodissociation	304-306
GC/MS: Instrumentation and Applications II	307-329
Glycoproteins I	330-350
Homeland Security	351-360
Imaging MS: Disease Markers I	361-379
Informatics: Algorithms and Statistical Advances II	380-402
Informatics: Metabolomics	403-431
Instrumentation: General	432-452
Instrumentation: New Concepts	453-478
Ion Mobility: Applications II	479-500
LC/MS: Chromatography and Software I	
LC/MS: Sample Preparation I	518-542
Lipids: General	
Metabolomics: Targeted and Quantitative Analysis	565-597
Metabolomics: Untargeted Metabolite Profiling II	
Nucleic Acids and Oligonucleotides I	
Peptides: PTM Identification	642-675
Peptides: Targeted and Quantitative Analysis	
Proteins: Complexes/Non-covalent Interactions I	704-720
Proteomics: Quantitative III	721-744
Small Molecules: Quantitative Analysis	745-769
Toxicology	770-789

AMBIENT IONIZATION: APPLICATIONS I 001-031

WP 001	Open Probe Fast GC-MS and its Recent Real
	Time Forensic Medical and Food Safety Analysis
	Applications; Benjamin Neumark ¹ ; Uri Keshet ¹ ; Alexander
	B. Fialkov ¹ ; Tal Alon ¹ ; Aviv Amirav ¹ ; ¹ Tel-Aviv University, Tel-
	Aviv, Israel

WP 002 Open Ambient Ionisation Source Coupled to a Mass Detector for Rapid Detection of Undeclared Active Ingredient(s) in Online Health Supplements; Chris Henry; Waters Corportaion, Cheshire, United Kingdom

WP 003 Protein Screening of Native Brain Sections Using LESA-TIMS-MS; Yarixa L. Cintron-Diaz¹; Mario E. Gomez Hernandez¹; Jennifer Dziedzio¹; Tomas R. Guilarte¹; Francisco A. Fernandez-Lima¹; ¹Florida International University, Miami, FL

WP 004 Absolute Quantitation of Tryptophan Metabolites in Brain Tissue Using Paper Spray Ionization-High Resolution Mass Spectrometry; Richard C Dilworth¹; Vanessa Y. Rubio¹; Gary P Wang¹; Timothy J. Garrett¹; **IUniversity of Florida, Gainesville, FL

WP 005 Rapid Drug Detection by Ultrasonic Nebulizer Coupled with Atmospheric-Pressure Chemical Ionization for Food-Product Analyses; Linxia Song¹; Yi You²; Theresa Evans-Nguyen³; ¹University of Florida, Tampa, FL; ²Federal Institute for Materials Research and Testing (BAM), Berlin, Germany; ³University of South Florida, Tampa, FL

WP 006 A Novel Approach to Simultaneous Quantification of Tropane Alkaloids in Plant Tissue (Datura spp.) Using DART-HRMS and PLS Linear Regression; Samira

Beyramysoltan¹; Rabi A. Musah¹; ¹Department of Chemistry, State University of New York at Albany, Albany, NY

WP 007 A Coated Blade Spray - Mass Spectrometry (CBS-MS)
Method for Simultaneous Screening of 68 Drugs and
Metabolites in Urine; Shirin Hooshfar¹; Simone Tchu¹;
German A. Gómez-Ríos².³; Daniel A. Rickert³; Janusz
Pawliszyn³; Kara Lynch¹; ¹University of California, San
Francisco (UCSF), San Francisco, CA; ²Restek Corporation,
Bellefonte, PA; ³University of Waterloo, Waterloo, ON

WP 008 Real-Time Analysis of the Metabolic Profile of Microglia Using Liquid Microjunction Surface Sampling Coupled with High-Resolution Mass Spectrometry; Taylor M.

Domenick¹; Vinata Vedam-Mai¹; Timothy J. Garrett¹; Richard A. Yost¹; ¹University of Florida, Gainesville, FL

WP 009 DART-MS: Enabling Safer Reaction Monitoring and Analysis Conditions with In Hood Vaporization; Brittany
Laramee¹; Frederick Li¹; Paul Liang¹; Brian Musselman¹;
¹lonSense. Inc. Saugus. MA

WP 010 High Throughput 96-Pin Solid Phase Microextraction Array for Direct Analysis in Real Time; Paul Liang1; Frederick Li1; Brittany Laramee1; Brian Musselman1; 1/lonSense, Inc., Saugus, MA

WP 011 Can Reducing Sample Volume and Desorption Time Lead during Ambient Ionization lead to Improved Drug Detection from Biological Fluids; Brian D. Musselman¹; Paul Liang²; *IonSense, Inc., Saugus, MA; *IonSense,Inc., Saugus, MA

WP 012 The Eight(y) Million Pound Question: Using DESI Ambient MS Imaging for the Forensic Analysis of Cheque Fraud; Huiqin Zhong¹; Zhengwei Jia¹; Wei Rao¹; ¹Waters Technologies (Shanghai) Co, Ltd, Shanghai, China

WP 013 Rapid Screening of New Synthetic Drugs in Plasma Samples Using Paper Spray Mass Spectrometry with Integrated Solid-Phase Extraction Cartridge; Greta

J. Ren¹; Brandon J. Bills¹; Nicholas E. Manicke¹; ¹/IUPUI

Department of Chemistry & Chemical Biology, Indianapolis, IN

WP 014 **Sub-Microliter Metabolomics via Triboelectric** Nanogenerator-Induced Nanospray Mass Spectrometry: Yafeng Li¹; Marcos Bouza Areces¹; Changsheng Wu²; Danning Huang¹; Gilad Doron³; Johnna S Temenoff³, 4; Arlene A. Stecenko5; Zhong Lin Wang2, 6; Facundo M Fernandez^{1,7}; ¹School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA; 2School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, Georgia; 3W.H. Coulter Department of Biomedical Engineering, Georgia Institute of Technology and Emory University, 315 Ferst Drive, Atlanta, GA 30332,, Atlanta, Georgia; ⁴Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, Atlanta, Georgia; 5Emory+Children's Center for Cystic Fibrosis and Airways Disease Research and Department of Pediatrics, Emory University School of Medicine and Children's Healthcare of Atlanta, Atlanta, Georgia; 6Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of



- Sciences, Beijing, China; ⁷Petit Institute of Bioengineering and Biosciences, Georgia Institute of Technology, Atlanta, Georgia
- WP 015 Ambient Mass Spectrometry Immunoassays Using Small-Molecule Signal Amplifiers for Zeptomole Protein Detection; Shuting Xu¹; Wen Ma¹; Yu Bai¹; Huwei Liu¹; ¹Peking University, Beijing, China
- WP 016 Nitrogen and Ion Source Parameters: Considerations for Nitrogen Direct Analysis in Real Time; Frederick Li¹; Paul Liang¹; Brittany Laramee¹; Brian Musselman¹;

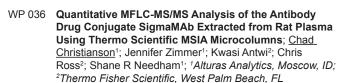
 IonSense,Inc., Saugus, MA
- WP 017 Molecular Level Identification of Soil Organic Matter from Polar Region by solid phase LDI-FTICR-MS;
 Seulgidaun Lee¹; Sunghwan Kim¹; ¹Kyungpook National University, Daegu, South Korea
- WP 018 Lower Detection Limits for Paper Spray Mass Spectrometry Using on Paper Extraction; Brandon Bills¹; Nicholas E. Manicke¹; ¹IUPUI Department of Chemistry & Chemical Biology, Indianapolis, IN
- WP 019 Rapid Identification of Wuyi Rock Tea Regions using the Direct Analysis in Real Time (DART) MS System with LiveID; Yuhong Qin¹; Wei Rao¹; Huiqin Zhong¹; Fang Shu¹; Zhengwei Jia¹; Defeng Huang¹; Clara Chen¹; Kate Yu¹; ¹Waters Technologies (Shanghai) Co, Ltd, Shanghai, China
- WP 020 Acoustic Mist Ionisation (AMI) a Rapid Approach for the Development of Mass Spectrometry Libraries; Michael McCullagh¹; Sara Stead¹; Gareth Rhys Jones¹; Michelle Wood¹; Severine Goscinny²; Nayan Mistry¹; Kenneth Rosnack³; ¹Waters Corporation, Wilmslow, United Kingdom; ²Sciensano, Brussels, Belgium; ³Waters Corporation, Milford, MA
- WP 021 A Validated Method for Quantification of Mescaline in Recreationally-abused EchinopsisCacti by Direct Analysis in Real Time Mass Spectrometry; Cameron Longo¹; Rabi A. Musah¹; ¹University at Albany SUNY, Albany, NY
- WP 022 Detection of Organometallic Compounds on a Waters
 QDa Mass Spectrometer Equipped with a HeliumPlasma-Ionization (HePI) Source; Athula B. Attygalle¹;
 Julius Pavlov¹; David Douce²; Steve Bajic³; ¹Stevens
 Institute of Technology, Hoboken, NJ; ²Waters corporation,
 Wilmslow, United Kingdom; ³Waters Corporation, Wilmslow,
 United Kingdom
- WP 023 Rapid Quantitative Analysis of Six Anti-arrhythmic Drugs in Human Serum Using Direct Analysis in Real Time Mass Spectrometry; Yuzhou Gui¹; Xiaokun Duan²; Kerry Song²; Jiale Xu²; Charles C. Liu²; Hong Yan³; Youli Lu¹; Gangyi Liu¹; ¹Central Laboratory, Shanghai Xuhui Central Hospital/Zhongshan Xuhui Hospital, Fudan University /Shanghai Clinical Center, Chinese Academy of Sciences, Shanghai, China; ²ASPEC Technologies Limited, Beijing, China; ³Shanghai Institute of Medical Genetics, , Shanghai Children's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China
- WP 024 Direct insertion probe and atmospheric pressure ionization coupled to high-resolution mass spectrometry for the description of lignocellulosic biomass; Clément Castilla¹; Christopher P. Rüger¹; Hélène Lavanant¹; Carlos Afonso¹; ¹Normandie Univ, INSA Rouen, UNIROUEN, CNRS, COBRA, Rouen, France, Rouen, France
- WP 025 A Prototype Direct Sampling Inlet for the Rapid Analysis of Target Analytes in the Chemical Industry; Rachel Sanig¹; David Douce¹; Jeff Goshawk¹; Caitlyn Da Costa¹; Gordon Jones¹; Eleanor Riches¹; ¹Waters Corporation, Wilmslow, United Kingdom
- WP 026 Ambient Ionisation Mass Spectrometry: A novel diagnostic tool for debugging electronic circuits; <u>Barry Smith</u>¹; Cedric Boisdon¹; Simon Maher¹; ¹University of Liverpool, Liverpool, United Kingdom

- WP 027 Wood Discrimination Analyses of Pterocarpus tinctorius and Endangered P. santalinus Using DART-FTICR-MS Coupled with Multivariate Statistics; Maomao Zhang¹.²; Yafang Yin¹.²; Wen Zhou³; Jiang Zhou³; Xiaokun Duan⁴; Charles C. Liu⁴; ¹Department of Wood Anatomy and Utilization, Research Institute of Wood Industry, Chinese Academy of Forestry, Beijing, China; ²Wood Collections (WOODPEDIA), Chinese Academy of Forestry, Beijing, China; ³Peking University, Beijing, China; ⁴ASPEC Technologies, Beijing, China
- WP 028 Direct Analysis in Real Time Mass Spectrometry and Multivariate Data Analysis for Profiling of Chinese Propolis; Yilei Huang¹; Zhongping Huang¹; Charles C. Liu²; Kezhi Jiang³; Lili Wang*¹; Xiaokun Duan²; ¹Zhejiang University of Technology, Hangzhou, China; ²ASPEC Technologies, Beijing, China; ³Hangzhou Normal University, Hangzhou. China
- WP 029 Intact Metabolomics by PESI/MS/MS and its Application to Metabolic Profiling of Acetaminophen-Induced Acute Hepatic Injury Model Mice; Tomomi Ohara¹; Kenta Kondo¹; Tasuku Murata²; Tetsuya Ishikawa³; Akira Ishii¹; Hitoshi Tsuchihashi¹; Koretsugu Ogata²; Yumi Hayashi³. ⁴; Kei Zaitsu¹.⁴; ¹Department of Legal Medicine and Bioethics, Nagoya University Graduate School of Medicine, Nagoya, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan; ⁴In Vivo Real-Time Omics Laboratory, Institute for Advanced Research, Nagoya University, Nagoya, Japan
- WP 030 Rapid Analysis of Drugs in Plasma Using Probe Electrospray Ionization Mass Spectrometry; Hidekazu Saiki¹; Tasuku Murata¹; Koretsugu Ogata¹; Takahiro Inoue²; Kenji Nakayama³; Koji Shimizu²; Osamu Ogawa²; ¹Shimadzu corp., Kyoto, Japan; ²Kyoto University, Kyoto, Japan; ³Shimadzu Techno-Research, Inc., Kyoto, Japan
- WP 031 Direct Analysis of Cell Wall Lipids from Mycobacteriumvia LESA-MS; Rian L Griffiths¹; Luke Alderwick²; ¹University of Nottingham, Nottingham, United Kingdom; ²University of Birmingham, Birmingham, United Kingdom

ANTIBODIES & ANTIBODY DRUG CONJUGATES II 032-064

- WP 032 MALDI-In-Source Decay FT-ICR MS for Top-Down and Middle-Down Characterization of Monoclonal antibodies; Christoph J. Gstöttner¹; Yuri E.M. van der Burgt¹; David P. A Kilgour²; Yury Tsybin³; Manfred Wuhrer¹; Simone Nicolardi¹; ¹Center for Proteomics and Metabolomics, LUMC, Leiden, Netherlands; ²Department of Chemistry, Nottingham Trent University, Nottingham, United Kingdom; ³Spectroswiss, Lausanne, Switzerland
- WP 033 A Comparative Study of N-Glycosylation Assays for the Characterization of Fc and Fab N-Glycans on Monoclonal Antibodies; John F. Kelly¹; Tammy-Lynn Tremblay¹; Denis Brochu¹; Robotham Anna¹; ¹Human Health Therapeutics, National Research Council of Canada, Ottawa. ON
- WP 034 MS-based Characterization of a Novel Antibody Against Marburg Virus Nucleoprotein; yanchun Lin¹; Britney Johnson²; Angela Zou²; Kathleen C.F. Sheehan²; Gaya Amarasinghe²; Daisy Leung²; Michael L. Gross¹; ¹Department of Chemistry, Washington University in St Louis, St Louis, MO; ²Department of Pathology and Immunology, Washington University School of Medicine, St Louis, MO
- WP 035 Rapid Conjugation, Proteolysis and Purification of Antibodies Using High Capacity CapturemTM

 Membranes; Christian Hoppmann¹; Mandy Li¹; Michael Vierra¹; Boris Levitan¹; Gia Jokhadze¹; Andrew Farmer¹;
 ¹Takara Bio USA, Mountain View, CA



- WP 037 Top-down Proteogenomics Analysis of Serum
 Autoantibody Repertoire for the Discovery of Biomarker
 of Systemic Lupus Erythematosus; Zhe Wang¹; Xiaowen
 Liu²; Kenneth Smith³; Si Wu¹; ¹University of Oklahoma,
 Norman, OK; ²Indiana University-Purdue University
 Indianapolis, Indianapolis, IN; ³Oklahoma Medical Research
 Foundation, Oklahoma City, OK
- WP 038 High Sensitivity Native Analysis of Monoclonal antibodies by Electrokinetically Pumped Sheath-Flow Capillary Zone Electrophoresis-Mass Spectrometry on a Q-TOF Mass Spectrometer; Xiaojing Shen¹; Zhichang Yang¹; David Wong²; Qiangwei Xia³; Liangliang Sun¹; ¹Michigan State University, East Lansing, MI; ²Agilent Technologies, Santa Clara, CA; ³CMP Scientific Corp, New York, NY
- WP 039 Characterization of Monoclonal Antibody
 Biosimilar through C-terminal and Disulfide Bond
 PeptidesSequencing Analysis on Q-TOF Mass
 Spectrometer; Udi Jumhawan¹; Zhaoqi Zhan¹; ¹Shimadzu
 Asia Pacific, Singapore, Singapore
- WP 040 Application of a Label-Free and Domain-Specific Free Thiol Method in Monoclonal Antibody Characterization; Yi Pu¹; Yunqiu Chen¹; Tai Nguyen¹; Chong-Feng Xu¹; Li Zang¹; Zoran Sosic¹; Tyler Carlage¹; ¹Biogen, Cambridge, MA
- WP 041 Enabling Single-cell Clone Selection for Knob-in-Hole Bispecific Antibodies via Automated Affinity Capture Coupled to High-throughput RapidFire Mass Spectrometry; William Sawyer¹; Neha Srikumar²; Joseph Carver²; Phillip Y. Chu²; Amy Shen²; Ankai Xu²; Ambrose Williams²; Cong Wu²; Yichin Liu²; John C. Tran²; ¹Genentech, South San Francisco, CA; ²Genentech, Inc., South San Francisco, CA
- WP 042 Towards Better Characterizing Drug-Antibody
 Ratios in Antibody-Drug Conjugates with Ion
 Mobility Separations in Structures for Lossless Ion
 Manipulations; Gabe Nagy¹; Isaac K. Attah¹; Yue-Mei
 Zhang²; James Lanter²; Jared B. Shaw¹; Sandilya V. B.
 Garimella¹; Harsha P. Gunawardena²; Richard D. Smith¹;
 Yehia M. Ibrahim¹; ¹Pacific Northwest National Laboratory,
 Richland, WA; ²Janssen Research and Development,
 Spring House, PA
- WP 043 Regulated LCMS bioanalysis of Monoclonal Antibodies in Human Serum for Inflammatory Immune Disease Management Using Novel Fab-Selective nSMOL Chemistry; Noriko Iwamoto¹; Atsushi Yonezawa².³; Kazuo Matsubara³; Takashi Shimada¹.⁴; ¹Shimadzu Scientific Instruments, Bothell, WA; ²Kyoto University, Kyoto, Japan; ³Kyoto University Hospital, Kyoto, Japan; ⁴Shimadzu Corporation, Kyoto, Japan
- WP 044 A Proteomic Approach to Single Chain Camelid Antibody Discovery; Anand Patel¹; Natalie Castellana¹; Thiago Lima¹; Stefano Bonissone¹; ¹Digital Proteomics, LLC., San Diego, CA
- WP 045 Affinity Based LC-MS Method for Improved Determination of HCP-ELISA Reagent Coverage;

 Christina Seisenberger¹; Stefanie Wohlrab¹; ¹Roche Diagnostics GmbH, Penzberg, Germany
- WP 046 A Large Scale Comparison of MS-based Antibody
 De Novo Protein Sequencing and Targeted DNA
 Sequencing; Zac McDonald¹; Signy Chow².³; Kathleen
 Gorospe¹; Xin Xu¹; Paul Taylor¹; Qixin Liu¹; Trevor J Pugh²;
 Suzanne Trudel²; Bin Ma⁴; ¹Rapid Novor Inc., Kitchener,

- ON; ²University Health Network/Princess Margaret Hospital, Toronto, ON; ³Sunnybrook Health Sciences Centre, Toronto, ON; ⁴University of Waterloo, Waterloo, ON
- WP 047 Exploring the Effects of Media on Glycosylation of Biotherapeutics with Reduced Mass and Multi-Attribute Method (MAM) Analysis; Yuko Ogata¹; Nancy S Nightlinger¹; Richard S Rogers¹; **Just Biotherapeutics, Seattle. WA
- WP 048 Monitoring of DAR/ADC attributes for Trastuzumab Emtansine; Sibylle Heidelberger¹; Ferran Sanchez²; ¹AB Sciex UK Ltd, Warrington, United Kingdom; ²SCIEX, Madrid, Spain
- WP 049 Rapid and Automated LCMS Characterization of Antibody and Protein Drug Conjugates; Mark E.

 Hail¹; Robert Schuster¹; Kevin McCarl¹; **Novatia LLC, Newtown, PA
- WP 050 Interactions of Hepatitis B Virus Capsids with Importin β and Anti-viral Drugs Monitored by Charge Detection Mass Spectrometry; Christine Kim¹; Nicholas A. Lyktey¹; Adam Zlotnick¹; Martin F. Jarrold¹; ¹Indiana University, Bloomington. IN
- WP 051 In-Depth Characterization of *in vivo* Biotransformations for Trastuzumab Emtansine by Orbitrap MS; <u>Jintang He</u>¹; Shang-Fan Yu¹; Sharon Yee¹; Surinder Kaur¹; Keyang Xu¹; ¹Genentech Inc., South San Francisco, CA
- WP 052 Characterization of N-Glycan Species of VEGF
 Decoy Receptor Fusion Protein by Novel HILIC-LC
 Separation with High Sensitive Mass Spectrometric
 Characterization; Mihir Mahendra Thakar¹; Faraz Rasid²;
 Dipankar Malakar²; Bobby Virasingh¹; Manoj Pillai²;

 ¹Phenomenex India Pvt Ltd, Hyderabad, India; ²SCIEX
 INDIA, GURUGRAM, India
- WP 053 Affinity Purification of IdeZ Digest for Glycosylation Profile of Immunoglobulins Using a Linear Benchtop MALDI-TOFMS; Yuzo Yamazaki¹; Shuichi Nakaya¹;

 Shimadzu Corporation, Kyoto, Japan
- WP 054 Investigation of Ocular Tissue Disposition of Antibody-Drug Conjugates Using Novel LC-MS-Based Strategies; Xiaoyu Zhu¹; Ming Zhang²; Jie Pu¹; Shihan Huo¹; Chao Xue¹; Jun Qu¹.²; ¹University at Buffalo, Buffalo, NY; ²New York State Center of Excellence in Bioinformatics & Life Sciences, Buffalo, New York
- WP 055 Strategies for Sample Handling and Characterization of Antibody-Drug Conjugates by Quadrupole Mass Spectrometry; Malin Källsten^{1, 2}; Matthijs Pijnappel²; Rafael Hartmann^{1, 2}; Fredrik Lehmann³; Lucia Kovac²; Sara Bergström Lind¹; Jonas Bergquist¹; ¹Uppsala University, Uppsala, Sweden; ²Recipharm OT Chemistry AB, Uppsala, Sweden; ³Oncopeptides AB, Stockholm, Sweden
- WP 056 Optimization of a LC/MS Method for Disulfide Characterization and Free Cystine Quantification in Protein Therapeutics; Song Nie¹; Xin Chen¹; Jun Lun¹; ¹Catalent Pharma Solutions, Madison, WI
- WP 057

 A New Preparation Method Enabling Targeted
 Quantification of Biotherapeutics, Biomarker/Target
 Levels in FFPE Tissues with High Protein Recovery
 and Reproducibility; Chao Xue¹; Jie Pu¹; Shihan Huo¹;
 Xiaoyu Zhu¹; Ming Zhang²; Jun Qu¹.²; ¹University at Buffalo,
 Buffalo, NY; ²New York State Center of Excellence in
 Bioinformatics & Life Sciences, Buffalo, New York
- WP 058 Cleavage of Intact Monoclonal Antibodies by Cathepsin L and D Studied by Native Mass Spectrometry; Wilfred Tang¹; Marshall Bern¹; Andrew C Nichols¹; Jing Zhu²; Tomislav Caval²; Albert J.R. Heck²; ¹Protein Metrics Inc., Cupertino, CA; ²Utrecht University, Utrecht, Netherlands
- WP 059 High Resolution MS-based Structural Characterization Plays a Key Role in ADC Process Development; Zhiqi Hao¹; Diana Y. Liu¹; Qiuting Hong².³; Michael Kim¹; William Haskins¹.⁴; Tomasz Baginski¹; Yan Chen¹; ¹Genentech,



- South San Francisco, CA; ²Eurofins Lancaster Laboratories, Inc., Lancaster, PA; ³Allakos Inc., Redwood City, CA; ⁴Gryphon Bio Inc, South San Francisco, CA
- WP 061 Assessment of Anti-drug Antibodies in Cynomolgus Monkey Dosed with an Antibody Drug Conjugate Using Immunocapture-LC/MS; Luying Chen^{1,2}; Linlin Dong¹; Nicole Bebrin¹; Hiroshi Sugimoto¹; Martin Paton¹; Dong Wei¹; Mark Qian¹; ¹Takeda Pharmaceuticals International, Inc., Cambridge, MA; ²Linus Pauling Institute, College of Pharmacy, Oregon State University, Corvallis, OR
- WP 062 Antibody Subunit LC-MS Analysis from Pre-Clinical Studies for Biotransformation & Catabolism Determination; John Kellie; GSK, King Of Prussia, PA
- WP 063 Using Low-Resolution MS for Protein Therapeutic Process Monitoring during Development after One-Time Characterization with High-Resolution MS; Chien-Hsun Chen¹; Eike Zimmermann¹; Kenji Furuya¹; Scott Corley¹; ¹Boehringer Ingelheim, Fremont, CA
- WP 064 A novel Immunocapture Middle-Up LC-MS Method to Evaluate the *in vivo* Stability of Fc Conjugated Antibody Drug Conjugates (ADCs); Srikanth Kotapati¹; David Passmore¹; Qiang Cong¹; Yam B Poudel¹; Mei-Chen Sung¹; Mary Huber¹; Patrick Holder¹; Sayumi Yamazoe¹; Sanjeev Gangwar¹; Chetana Rao¹; Vangipuram S. Rangan¹; Chin Pan¹; Pina M. Cardarelli¹; Shrikant Deshpande¹; Pavel Strop¹; Gavin Dollinger¹; Arvind Rajpal¹; ¹Bristol-Myers Squibb, Redwood City, CA

BIOMARKERS: DISCOVERY II 065-095

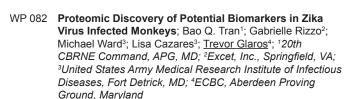
- WP 065 A Flexible Analytical Platform for the Discovery of Biomarkers of Disease; <u>Laura McGregor</u>¹; Pete Grosshans¹; Anthony Buchanan¹; Bob Green¹; Nick Bukowski¹; ¹SepSolve Analytical, Peterborough, United Kingdom
- WP 066 The Discovery of Potential Cancer Biomarkers in Human Plasma Using GC- and GCxGC-TOFMS; David E Alonso¹; Habtom Ressom²; Cristina Di Poto²; Joseph E Binkley³; ¹Leco Corporation, St. Joseph, MI; ²Georgetown University Medical Center, Washington, DC; ³LECO Corporation, St Joseph, MI
- WP 067 AlbuVoid™ Enrichment & Antibody Depletion Solving the Challenges of Serum Proteomics; Matt Kuruc¹; Swapan Roy¹; Haiyan Zheng².³; Amenah Soherwardy².³; Biotech Support Group LLC, Monmouth Junction, NJ; Rutgers University, New Brunswick, NJ; Rutgers Proteomics Center, Piscataway, NJ
- WP 068 Applications of SurfaceGenie: A Web-Based Tool for Mining Experimental Data for Informative Surface Proteins; Matthew Waas¹; Shana T. Snarrenberg¹; Jack Littrell¹; Rebekah L. Gundry¹; ¹Medical College of Wisconsin, Milwaukee, WI
- WP 069 Plasma Proteins as New Biomarkers of Irradiation in Humans; Ales Tichy¹; Gabriela Kultova¹.²; Helena Rehulkova¹.²; Pavel Rehulka¹; Alena Myslivcova-Fucikova¹.²; ¹University of Defence, Hradec Kralove, Czech Republic; ²University of Hradec Králové, Czech Republic Králové, Czech Republic
- WP 070 Global Plasma Proteome Quantification Using Internal Standard Triggered Targeted Analyses; Sebastien Gallien^{1, 2}; Jing Wang¹; Aaron S. Gajadhar³; Bhavin Patel⁴; Markus Kellmann⁵; Tabiwang N. Arrey⁵; Alexander Harder⁵; Romain Huguet³; Graeme McAlister³; Derek Bailey³; Shannon Eliuk³; Yue Xuan⁵; Andreas Huhmer³; Emily I. Chen¹; ¹Thermo Fisher Scientific, Precision Medicine Science Center, Cambridge, MA; ²Thermo Fisher Scientific, Paris, France; ³Thermo Fisher Scientific, San Jose, CA;

- ⁴Thermo Fisher Scientific, Rockford, IL; ⁵Thermo Fisher Scientific, Bremen, Germany
- WP 071 Modification of Lipid Expression in human Clear Cell Renal Cell Carcinoma; Lucia Martin-Saiz1; Olatz Fresnedo²; Jone Garate¹; Roberto Fernandez¹; Peio Errarte³; Maider Beitia³; Gorka Larrinaga³; Jon Danel Solano-Iturri⁴; Beatriz Abad⁵; Jose Andrés Fernández¹; Begoña Ochoa2; 1Dep. of Physical Chemistry, Fac. of Science and Technology, University of the Basque Country (UPV/EHU), Leioa, Spain; ²Department of Physiology, Fac. of Medicine and Nursing, University of the Basque Country(UPV/EHU), Leioa, Spain; 3Department of Nursing, Fac. of Medicine and Nursing, University of the Basque Country (UPV/EHU),, Leioa, Spain; ⁴Department of Pathology, Cruces University Hospital, Barakaldo, Spain; ⁵Liquid Chromatography and lipidomics platform, SGIKER, University of the Basque Country (UPV/EHU), Leioa, Spain
- WP 072 Amniotic Fluid Proteome of Neonates with Congenital Diaphragmatic Hernia; Sumit Bhutada¹; Karin Tran-Lundmark²; Carmen Mesas-Burgos²; Peter Conner²; Bjorn Frenckner²; Suneel Apte¹; ¹Cleveland Clinic, Cleveland, OH; ²Karolinska Institutet, Stockholm, Sweden
- WP 073 Characterizing Glycans and Glycan Isomers Associated with Breast Cancer Tissue Phenotypes; Sakshi Gautam¹; Wenjing Peng¹; Xue Dong¹; Jingfu Zhao¹; Yifan Huang¹; Aiying Yu¹; Jieqiang Zhong¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- WP 074 Proteomic Profiling and Immunoassay-based Validation of Biomarkers in Human Plasma from Alzheimer's Patients; Mei Chen¹; Abby S. Gelb¹; Weiming Xia¹.

 2; ¹Geriatric Research Education and Clinical Center (GRECC), ENR Memorial Veterans Hospital, Bedford, MA;

 ²Boston University School of Medicine, Boston, MA
- WP 075 LC-MS/MS Proteomic: Identification of Candidate Biomarkers of Breast Cancer Subtypes; Jingfu Zhao¹; Wenjing Peng¹; Aiying Yu¹; Yifan Huang¹; Xue Dong¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- WP 076 Proteomic Profiling of Ovarian Cancer Extracellular Vesicles for Biomarker Discovery; <u>Dylan Z Dieters-Castator</u>^{1, 2}; Jiahui Liu¹; Gilles Lajoie²; Lynne-Marie Postovit¹, ²; ¹University of Alberta, Edmonton, AB; ²Western University, London, ON
- WP 077 Multiplexed, Quantitative Proteomic Comparison of a Novel Nrf2 Pathway Targeting Therapeutic Compound in Two Separate, but Complementary, Matrices; Damon Young¹; Amanda L. Edwards¹; Sharon O'Neill¹; Ashley Nelson¹; Ankur Thomas¹; Brian Wipke¹; Michael Rooney¹; Omar Mabrouk¹; Danielle Graham¹; **Ibiogen**, Cambridge, MA
- WP 078 Identifying Novel Upstream Kinases of the Microtubule-Associated Protein Tau Using Fluorescence Complementation Mass Spectrometry (FCMS) in an Alzheimer's-like cell model; <u>Der-Shyang Kao</u>¹; Yanyan Du²; W. Andy Tao²; ¹Purdue University, West lafayette, Indiana; ²Purdue University, West Lafayette, Indiana
- WP 079 Secretotranscriptomic Identification and Validation of New Prognostic Liquid Biopsy Biomarkers;

 J. Astor Ankney¹; John A. Wrobel¹; Ling Xie¹; Xian Chen¹.²; ¹Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC; ²Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- WP 080 Region-Specific N-Glycome Mapping of the Human Brain in Alzheimer's Patients by nanoLC chip-Q-TOF MS Analysis; Jennyfer Tena¹; Mariana Barboza¹; Maurice Wong¹; Carlito B Lebrilla¹; ¹University of California, Davis, Davis, CA
- WP 081 The Urinary Metabolome and Lipidome of Prostate Cancer; Iqbal Mahmud¹; Timothy J Garrett¹; ¹University of Florida Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, FL



- WP 083 Serum Proteomic Profiling for Biomarker Discovery in Ischemic Stroke; Miji Shin¹; Jiyeong Lee²; Arum Park²; Sora Mun¹; You-rim Lee¹; Ae Eun Seok²; Hyo-jin Kim¹; Yoo-jin Lee¹; Hee-gyoo Kang¹.²; ¹Department of Senior Healthcare, BK21 Plus Program, Graduate School, Eulji University, Daejeon, South Korea; ²Department of Biomedical Laboratory Science, College of Health Sciences, Eulji University, Seongnam-si, South Korea
- WP 084 Phosphatidylcholines as a Biomarker Potential Candidate of Multiple Sclerosis; Fernando Brunale Leite¹; Danielle Zildeana Furtado¹; Cleber Nunes Barreto¹; Erica Souza Silva¹; Nilson Antonio Assuncao¹; ¹Unifesp, São Paulo, Brazil
- WP 085 Proteome and Phosphoproteome Biomarker Discovery Strategies for Biopsy-Free Bladder Cancer Diagnosis Based on Urinary Extracellular Vesicles; Xiaofeng Wu¹; Sebastian Paez¹; Hristos Kaimakliotis²; Anton B. Iliuk³; Weiguo Andy Tao¹; ¹Purdue University, West Lafayette, IN; ²Indiana University School of Medicine, Indianapolis, Indiana; ³Tymora Analytical Operations, West Lafayette, IN
- WP 086 Aging Markers and Ageotypes Revealed by Deep Longitudinal Profiling; Sara Ahadi¹; Wenyu Zhou¹; Reza Sailani¹; Kevin Contrepois¹; Michael Snyder¹; ¹Stanford University School of Medicine, Stanford, CA, 94305
- WP 087 Deciphering Racial Disparities in Breast Cancer by Novel Extracellular Matrix Proteomic Approaches on Formalin-Fixed, Paraffin-Embedded Clinical Specimens; Peggi M. Angel¹; Baylye Boxall¹; Jennifer R. Bethard¹; Lauren E. Ball¹; Jeffrey R. Marks²; Richard R. Drake¹; ¹Medical University of South Carolina, Charleston, SC; ²Duke University School of Medicine, Durham, NC
- WP 088 Stability-Based Protein Fractionation of Plasma Reveals Insights into Familial Amyloid Polyneuropathy Treatment with Tafamidis; Jolene K Diedrich¹; Chung-Yon Lin¹; Jeffery W Kelly¹; John R. Yates, III¹; ¹The Scripps Research Institute, La Jolla, CA
- WP 089 Serum Proteomic Profiling for Biomarker Discovery in Rheumatoid Arthritis; Sora Mun¹; Jiyeong Lee²; Arum Park²; Ae Eun Seok²; Hyo-jin Kim¹; Yoo-jin Lee¹; Hee-gyoo Kang¹.²; You-rim Lee¹; ¹Department of Senior Healthcare, BK21 Plus Program, Graduate School, Eulji University, Daejeon, South Korea; ²Department of Biomedical Laboratory Science, College of Health Sciences, Eulji University, Seongnam-si, South Korea
- WP 090 Development of a Bioanalytical Method for the Measurement of Symmetric-Dimethylarginine (SDMA) in Formalin-Fixed Paraffin-Embedded (FFPE) and Frozen Samples by LC/MS/MS; Max Lein¹; David Pirman¹; Gina Lein²; Katherine Sellers¹; Everton Mandley¹; Taryn Sleger¹; Katya Marjon¹; Guowen Liu¹; Yue Chen¹; ¹Agios Pharmaceuticals, Cambridge, MA; ²Sigilon Therapeutics, Cambridge, MA
- WP 091 UTIDx: 60 Second Assay for Detecting Urinary Tract Infections; Dominique G Bihan¹; Spencer D Wildman¹; Daniel B Gregson²; Thomas Rydzak¹; Ryan A Groves¹; Carly Y Chan¹; Deirdre L Church²; Ian A Lewis¹; ¹University of Calgary, Calgary, AB; ²Calgary Laboratory Services, Alberta Health Services, Calgary, AB
- WP 092 A Tunable Approach for Median-Polish of Ratio (TAMPOR) across Batches of Proteomics Datasets Deals a Blow to Stubborn Technical Variance;

 Eric B Dammer^{1, 2, 3}; Tyler W.A. Bradshaw⁴; Lenora A Higginbotham^{3, 5}; Lingyan Ping^{3, 5, 6}; Duc M Duong^{2, 3, 5};

- James J. Lah^{3, 5}; Allan I. Levey^{3, 5}; Scott H Soderling⁴; Nicholas T. Seyfried^{2, 3, 5}; ¹Emory University, Atlanta, GA; ²Emory Integrated Proteomics Core, Emory University, Atlanta, Georgia; ³Emory School of Medicine, Atlanta, GA; ⁴Duke University School of Medicine, Durham, NC; ⁵Emory University Center of Neurodegenerative Diseases, Atlanta, GA; ⁶Emory University-Biochemistry, Atlanta, GA
- WP 093 Metabolomic Approach for the Discovery of Internal Standard Substances of Bloodstain; Hee-gyoo Kang¹-²; You-rim Lee¹; Jiyeong Lee¹; Ae Eun Seok¹; Arum Park¹; Sora Mun¹; Hyojin Kim¹; Yoo Jin Lee¹; ¹Department of Senior Healthcare, BK21 Plus Program, Graduate School, Eulji University, Daejeon, South Korea; ²Department of Biomedical Laboratory Science, College of Health Sciences, Eulji University, Seongnam-si, South Korea
- WP 094 Lipid Signature to Distinguish between Patient with type II Diabetes and Type II Diabetes with Cardiovascular Disease; yashwant kumar; Translational health science and technology institute, Faridabad, India
- WP 095 Proteomic Analysis of NMuMG Cells Undergoing
 Epithelial Mesenchymal Transition; Santanu
 Palchaudhri¹; Faraz Rashid²; Dipankar Malakar²; Manoj G
 Pillai²; ¹Amity University, Kolkata, India; ²SCIEX, Gurgaon,
 India

BIOMARKERS: QUANTITATIVE ANALYSIS III 096-126

- WP 096 A Sensitive and RobustUPLC-MS/MS Methodfor Quantitation of Estrogens and Progestogensin HumanSerum; Junmei Zhang¹; Chenxiao Tang¹; Patrick J. Oberly¹; Margaret B. Minnigh¹; Sharon L. Achilles¹.²; Samuel M. Poloyac¹; ¹University of Pittsburgh, Pittsburgh, PA; ²Magee-Womens Research Institute, Pittsburgh, PA
- WP 097

 Identification of Candidate Biomarkers for Head and Neck Cancer Using LC-SRM and Longitudinal Samples from the DOD Serum Repository; Ju Yeon Lee¹; Tujin Shi¹; Vladislav Petyuk¹; Athena Schepmoes¹; Thomas Fillmore¹; Wayne Cardoni²; George Coppit²; Joseph Goodman²; Shiv Srivastava³; Craig Shriver²; Tao Liu¹; Karin Rodland¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Walter Reed National Military Medical Center, Bethesda, MD; ³Center for Prostate Disease Research, Bethesda, MD
- WP 098 Assessment of Food Impact on Serum Bile Acid Changes in a clinical methodology study by LC-MS/
 MS Analysis; Lina Luo¹; John Pettersen²; Michael Aleo¹; Christopher Holliman¹; Ragu Ramanathan¹; ¹Pfizer WRD, Groton, CT; ²University of Connecticut, Storrs, CT
- WP 099 TNF-α Regulated Metabolic Reprograming in Breast Cancer Using High-Resolution Proteomics; Ha Yun Lee¹. 2; Eugene C. Yi¹.²; Kritarth Singh³; Rajesh Singh³; Hanbyeol Kim⁴; ¹Seoul national university, Seoul, South Korea; ²Department of Molecular Medicine and Biopharmaceutical Sciences, Graduate School of Convergence Science and Technology, Seoul National University, Seoul, South Korea; ³Department of Bio-Chemistry, The M.S. University of Baroda, Vadodara, India; ⁴Department of Integrated OMICS for Biomedical Science, Graduate School, Yonsei University, seoul. South Korea
- WP 100 Identification Clostridum chauvoei by MALDI-TOF
 MS from Paraffin Embedded Sections of Lower
 Extremity Infections, in Three Diabetes Patients after
 Amputations; Barbara Dominiak¹; Maria Anita Mendes².

 3,4,5; ¹Temple University, Philadelphia, PA; ²Dampster
 Mass Spectrometry Lab, Sao Paulo-SP,, Brazil; ³William
 Oxberry, Brooklyn, New York, SUNY Downstate Medical
 Center; ⁴Patrick Chen, Brooklyn, SUNY Downstate Medical
 Center, New York; ⁵Ernique ER Sanches, Dampster Mass
 Spectrometry Lab., Brazil



- WP 101 Pre-Analytical Variation and Sample Quality Control of Human Blood for Metabolomics; Xinyu Liu; Dalian Institute OF Chemical Physics, Chinese Academy of Sciences, Dalian, China
- WP 102 Surface Modification of Gold Nanoparticles and their Applications as Mass Tags for Protein Marker Detection in Laser Ionization Mass Spectrometry; Siu Chung Toby Tam¹; Yu-Hong Cheng¹; Kwan-Ming Ng¹; ¹The University of Hong Kong, Hong Kong, Hong Kong
- WP 103 Investigating Phytophthora methylation using Trapped Ion Mobility Spectrometry Mass Spectrometry; Han Chen¹; Qing Zhang²; Heiner Koch³; Lucy Woods⁴; Hongyu Ma¹; ¹Nanjing Agricultural University, Nanjing, China; ²Bruker (Beijing) Scientific Technology Co., Ltd, Beijing, China; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴Bruker Daltonics, 28359 Bremen, Germany
- WP 104 Improvement of Phospho-monoester Lipids LC-MS
 Detection by Selective Capture using Molecularly
 Designed Materials; Giuliana Grasso¹; Carlo Crescenzi¹;
 Börje Sellergren²; ¹University of Salerno, Fisciano, Italy;
 ²Biofilm Research Center for Biointerfaces, Malmö
 University, Malmö, Sweden, SE, Sweden
- WP 105 Proteomic Analysis of Cerebrospinal Fluid in Alzheimer's disease; <u>Justin McKetney</u>¹; Daniel Panyard¹; Sterling C Johnson¹; Cynthia Carlsson¹; Corinne D Engelman¹; Joshua J Coon¹; ¹University of Wisconsin-Madison, Madison, WI
- WP 106 Utilizing Blood Cards for Quantitative Assessment of Glutathione as an Important Biomarker Test for Autism Spectrum Disorder and Neurodegenerative Diseases;

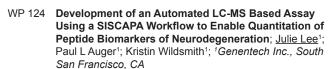
 <u>Ashley Trouten</u>¹; H. m. Skip Kingston¹; ¹Duquesne University, Pittsburgh, PA
- WP 107 Development of a Quantification Method for Intact Phosphorylated Alpha-Synuclein in Mouse Brain; Jens Fogh¹; François Fenaille²; Line Roerbaek Olsen¹; Anne-Marie Jacobsen¹; François Becher²; ¹H. Lundbeck A/S, Valby, Denmark; ²CEA Saclay, Service de Pharmacologie et Immunoanalyse (SPI) Laboratoire d'Etude du Métabolisme des Médicaments, Gif-Sur-Yvette, France
- WP 108 Rapid and Sensitive Derivatization Coupled with Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry for Determination of α-Hydroxyglutaric Acid and α-Ketoglutaric Acid; Hongmei Wang¹; Shuai Li¹; Sitan Xie¹; Wuyun Gong¹; Xiaotong Li¹; Lili Xing¹; Xin Zhang¹; Yi Tao¹; ¹WuXi AppTec, Shanghai, China
- WP 109 Targeted Mass Spectrometry Analysis of Gelsolin Isoforms in Duchenne Muscular Dystrophy; michael Ogundele¹; Emily Canessa¹; Alison M Samsel¹; Mansi V Goswami¹; Tchilabalo D Alayi¹; Yetrib Hathout¹; ¹University of Binghamton, Binghamton, NY
- WP 110 Practical Procedure for Selecting an Appropriate
 Surrogate Matrix for Endogenous Peptide/ Protein
 Quantitation in Biomatrix via LC-MS/MS; Moucun Yuan¹;
 Jinlin Shen¹; Omnia Ismaiel¹; Eric Ma¹; Michael Waldron¹;
 William R. Mylott Jr. ¹; ¹PPD, Richmond, VA
- WP 111 Development of a CLIA-ready Protein Biomarker Assay Platform for Lung Cancer using LC-MRM Quantification; Sandip Chavan¹; Kiah Bowers²; Lancia Darville²; Bin Fang²; Sam Massoni³; Theresa Boyle²; Eric Haura²; John M. Koomen²; ¹Moffitt Cancer Center, Tampa, FL; ²Moffitt Cancer Center & Research Institute, Tampa, FL; ³New England Peptide, Inc., MA, Gardner, Massachusetts
- WP 112 Investigation of Plasma N-glycans Alteration in Dementia with Lewy Bodies; Lang Ding¹; Qi Zhang²; He Zhu¹; Cheng Ma¹; Lih-Shen Chin²; Lian Li²; Peng George Wang¹; ¹Georgia State University, Atlanta, GA; ²Emory University, Atlanta, GA
- WP 113 Between Scylla and Charybdis, A Journey to Find Optimal, Facile, Isotopic Standards for Plasma

- Biomarker Detection with MRM; Mario M Alba¹; Kym F Faull²; Kian Kani¹; Alexander J Yoon²; Katrin Tiemann¹; Carolina Garri¹; Jack A Cipolla²; Jonathan E Katz¹; ¹Lawrence J. Ellison Institute for Transformative Medicine of USC, Los Angeles, California; ²Jane and Terry Semel Institute for Neuroscience and Human Behavior and Department of Psychiatry and Biobehavioral Sciences at UCLA, Los Angeles, California
- WP 114 Simultaneous Quantification of Nine Polyunsaturated Fatty Acids (PUFAs) in Rat Plasma by Reverse Phase LC-MS/MS; Roger Pham¹; Michelle Chen²; Josh Dekeyser³; Christopher A. James²; Omar S. Barnaby²; ¹Amgen, Inc., Thousand Oaks, CA; ³Amgen, Inc., Boston, MA
- WP 115 Redox Mass Tag for Absolute Quantitation in Mass Spectrometry; Anyin Li¹; Ran Qiu¹; Xing Xu²; ¹University of New Hampshire, Durham, NH; ²University of New Hampshire, DURHAM, NH
- WP 116 Development and Validation of an MS/MS Assay for Quantitation of Salivary Free Amino Acids in Volunteers Following Different Diet Regime; Andrew Pinkham¹; Hongqin Jiao¹.²; Yanira E. Linberg¹; Aaron Stairs¹; Ewa Sokol¹; ¹Charles River Laboratories, Worcester, MA; ²Charles River Laboratories, Shrewsbury, MA
- WP 117 Protein Signatures of Seminal Plasma from Bulls with Contrasting Frozen-Thawed Sperm Viability; Arlindo A.

 Moura^{1, 2}; Fabio F. Gomes¹; Robin Park¹; Carolina F. Costa¹; Abdullah Kaya³; Erdogan Memill¹; John R. Yates, III¹; ¹The Scripps Research Institute, La Jolla, CA; ²Universidade Federal do Ceara, Fortaleza, Brazil; ³Selcuk University, Selçuklu, Turkey; ⁴Mississippi State University, Starkville, Mississippi
- WP 118 Accelerated Workflow for Targeted SRM Assay
 Development from DIA Chromatogram Library:
 Targeted Assay for Parkinson's Disease Markers in
 Cerebrospinal fluid; Eric L Huang¹; Deanna Plubell¹;
 Sandi Spencer²; Thomas Montine³; Michael J MacCoss¹;

 ¹University of Washington, Genome Sciences, Seattle, WA;

 ²BC Cancer Research Agency, Vancouver, BC; ³Department of Pathology, Stanford University, Stanford, CA
- WP 119 Proteomics Analysis of Brain Meningiomas in Pursuit of Novel Biomarkers of the Aggressive Behavior; Garni Barkhoudarian¹; Julian Whitelegge²; Daniel Kelly¹; Margaret Simonian³; ¹John Wayne Cancer Institute, Providence St John's Health Center, Los Angeles, CA; ²University of California LA, Los Angeles, CA; ³University of California Los Angeles, Los Angeles, CA
- WP 120 Post-Translationally Modified Proteins in Plasma Extracellular Vesicles as Candidate Markers for Breast Cancer Subtypes; Hillary Andaluz Aguilar¹; I-Hsuan Chen¹; J. Sebastian Paez¹; Anton B. Iliuk²; Sonia Sugg³; Weizhou Zhang³; Weiguo Andy Tao¹; ¹Purdue University, West Lafayette, IN; ²Tymora Analytical Operations, West Lafayette, IN; ³University of Iowa, Iowa City, Iowa
- WP 121 Multiplexed Measurement of Catecholamines in the Serum and Urine of Non-Human Primates Utilizing Sample Derivatization and UPLC-MS/MS; Kimberly A Navetta¹; Rebecca R Ferreira¹; Mireia Fernandez Ocana¹; Pfizer Inc., Andover, MA
- WP 122 Rapid Diagnosis of Infectious Disease by Quantification of a Circulating Antigen; Jia Fan¹; Ye Hu¹; ¹Arizona State University, Tempe, AZ
- WP 123 Validating Mass Spectrometry Platforms for Profiling of Aberrant IgA1 O-Glycosylation Implicated in Pathogenesis of IgA Vasculitis with Nephritis; Alyssa L. Hansen¹; Audra A. Hargett¹; Ellenore P. Craine¹; Stacy Hall¹; Bruce A. Julian¹; Jan Novak¹; Matthew B. Renfrow¹; ¹University of Alabama at Birmingham, Birmingham, Alabama



- WP 125 Development of a Fit-for-Purpose LC-MRM-MS assay to measure Prion Protein in Cerebrospinal Fluid; Alexandra R Cocco¹; Eric Kuhn¹; Eric Vallabh Minikel¹; Christina R Hartigan²; Sonia M Vallabh¹; Stuart L Schreiber¹; Steven A Carr¹; ¹Broad Institute of MIT and Harvard, Cambridge, MA; ²Emory University, Atlanta, GA
- WP 126 Developing an Automated Plasma Sample Preparation Method for LC/MS Analysis of Metabolites; Koen Raedschelders¹; Weston Spivia¹; Jennifer Van Eyk¹; ¹Cedars-Sinai Medical Center, Los Angeles, CA

BIOMOLECULAR STRUCTURE ANALYSIS: CHEMICAL CROSSLINKING AND COVALENT LABELING II 127-153

- WP 127 Evaluating the Efficiency of DSS Cross-Linking
 Reaction in Different Conditions and the Correlation
 between Obtained Distance Constraints and
 Crystallographic Structure; Bruno C Amaral¹; Fabio Cesar
 Gozzo¹; ¹Dalton Mass Spectrometry Laboratory, Institute of
 Chemistry, University of Campinas, Campinas, Brazil
- WP 128 Protein Footprinting Method Coupled with Mass Spectrometry for the Structural Analysis of Cystic Fibrosis Transmembrane Conductance Regulator; Zhihui Zhang¹; Lisa M Jones²; ¹University of Maryland, Baltimore, Baltimore, MD; ²University of Maryland Baltimore, Baltimore, MD
- WP 129 Innovation Assembly, and Optimization of a Novel Pulse-Chase In Cell Footprinting Method for the Study of Protein Folding; Dante T Johnson; Ben Punshon-Smith²; Anne Gershenson³; Lisa M Jones¹; 10 Juniversity of Maryland Baltimore School of Pharmacy, Baltimore, MD;; Invivorsity of Maryland Baltimore County, Baltimore, MD;; Invivorsity of Massachusetts Amherst, Amherst, MA
- WP 130 Extension of Fast Photochemical Oxidation of Proteins for *in vivo* Modification in Caenorhabditis elegans;

 Jessica A Espino¹; Zhihui Zhang¹; Lisa M Jones¹; ¹University of Maryland Baltimore School of Pharmacy, Baltimore, MD
- WP 131 Covalent Labeling is Sensitive to Residue
 Microenvironment, Providing Improved Structural
 Analysis of Protein Higher Order Structure; Patanachai
 Limpikirati¹; Xiao Pan¹; Richard W. Vachet¹; ¹University of
 Massachusetts Amherst, Amherst, MA
- WP 132 Quantification of Differentially Crosslinked Proteins and Peptides; Billy Samulak; Fitchburg State University, Fitchburg, Massachusetts
- WP 133 A Synthetic Crosslinked Peptide Library for Benchmarking Algorithms Developed for Crosslink Identification; Rebecca Beveridge¹; Johannes Stadlmann²; Karl Mechtler¹.²; ¹Research Institute of Molecular Pathology, Vienna, Austria; ²Institute of Molecular Biotechnology, Vienna, Austria
- WP 134 Monitoring of hSCN Binding-Site Using Multiple MS-Based Methods; Chunyang Guo¹; Lindsey Steinberg²; Ming Cheng¹; Jing Yan¹; Jeffrey P Henderson²; Michael L Gross¹; ¹Department of Chemistry, Washington University in St Louis, St Louis, MO; ²Division of Infectious Diseases, Department of Medicine, Washington University School of Medicine, St Louis, Missouri
- WP 135 On-line Miniaturized Asymmetrical Flow Field-Flow Fractionation Separation with Fast Photochemical Oxidation of Proteins (FPOP); Jong Hee Song¹; Don L Rempel¹; Michael L Gross¹; ¹Washington University in St. Louis, St. Louis
- WP 136 Accommodating Ambiguity in Crosslink Detection for Applications in Integrative Structural Modeling; Andrew

- RG Michael¹; Wei Yang¹; Daniel S Ziemianowicz¹; David C Schriemer¹; ¹University of Calgary, Calgary, AB
- WP 137 Developing Tris(hydroxymethyl)aminomethane as an UV-Active Hydroxyl Radical Dosimeter; Addison E
 Roush¹; Mohammad Riaz¹; Sandeep K Misra¹; Joshua
 S Sharp¹; ¹University of Mississippi Department of
 Biomolecular Sciences, University, MS
- WP 138 In situ Production of Hydroxyl Radicals by Ozone from Laser Photolysis of Solvated Oxygen at Physiological pH for Protein Footprinting; Simin D. Maleknia¹; Callan Wilcox²; Scott Kable²; ¹University of Technology Sydney, Sydney, Australia; ²School of Chemistry, University of New South Wales, Sydney, NSW, Australia
- WP 139 Oxidation Effects on Chymotrypsin Digested HRPF Samples and Observation of Highly Basic Regions;

 Charles Mobley¹; Niloofar Abolhasani Khaje¹; Pradeep Prabhakar²; Kelley Moremen²; Joshua S. Sharp¹; ¹University of Mississippi, University, MS; ²University of Georgia, Athens, GA
- WP 140 Sub-Residue Resolution Footprinting of Ligand-Protein Interactions Enabled by Ion Mobility Mass Spectrometry; Gaoyuan Lu¹; Nian Wang¹; Yang Tian¹; Ning Wan¹; Yatao Shi²; Gongyu Li²; Lingjun Li²; Haiping Hao¹; Hui Ye¹; ¹China Pharmaceutical University, Nanjing, Jiangsu, China; ²University of Wisconsin - Madison, madison
- WP 141 Uncovering the Molecular Architecture of Human Fibrin Clots by Crosslinking Mass Spectrometry; Oleg Klykov¹²; Carmen van der zwaan³; Alexander B. Meijer³; Albert
 J.R. Heck¹-²; Richard A. Scheltema¹-²; ¹Utrecht University,
 Utrecht, Netherlands; ²Netherlands Proteomics Center,
 Utrecht, Netherlands; ³Sanquin Research, Amsterdam,
 Netherlands
- WP 142 Mechanistic Studies of Radical Trifluoromethylation and Its Application for Membrane Protein Labeling and Epitope Mapping; Ming Cheng¹; Chunyang Guo¹; George Mathai²; Gary Gerstenecker¹; Don Rempel¹; Michael L. Gross¹; ¹Washington University, St.louis, MO; ²Sacred Heart College, Cochin, India
- WP 143 In-Cell Fast Photochemical Oxidation of HCT116
 Spheroids; Raquel Shortt¹; Jesica Lukowski²; Amanda
 B. Hummon³; Lisa M Jones¹; ¹University of Maryland
 Balitmore, Baltimore, MD; ²University of Notre Dame, Notre
 Dame, IN: ³The Ohio State University, Columbus, OH
- WP 144 Evaluation of FAIMS Technology for Mass Spec Analysis of Chemical Cross-Linked Peptides; Rosa Viner¹; Leigh A Foster²; Ryan D. Bomgarden²; Michael W. Belford¹; Satendra Prasad¹; Romain Huguet¹; Eloy R. Wouters¹; **Thermo Fisher Scientific, San Jose, CA; **ThermoFisher Scientific, Rockford, IL
- WP 145 Photo Affinity Fragment (PhABit) Screening: A High Throughput Assay Platform and Identification of PhABit Binding Sites; Chad J Quinn¹; Ken Fantom²; Craig Wagner¹; Emma Grant²; Jacob Bush²; Chun-wa Chung²; Mike Hann²; Roland S Annan¹; Francesca Zappacosta¹;
 ¹GSK, Collegeville, PA; ²GSK, Stevenage, United Kingdom
- WP 146 Mass Spectrometry-Based Protein Footprinting Reveals Conformational Dynamics of the Plasma Membrane Proton Pump; Thao T. Nguyen¹; Pei Liu²; Benjamin Minkoff¹; Michael Sussman¹; ¹UW Madison, Madison, WI; ²University of Missouri, Columbia, MO
- WP 147 Measuring Protein Conformational Change in living Cells by Quantitative, Comprehensive, and Ultra-Sensitive Protein Footprinting; Jenna G. Caldwell¹; Joshua E. Elias²; Pehr A. B. Harbury²; **Stanford University, Stanford. CA: **Stanford University. Palo Alto. CA
- WP 148 Developing an Integrative XL-MS Strategy to Facilitate Structural Modeling of Protein Complexes; Craig B.

 Gutierrez¹; Ilan Chemmama²; Haibin Mao³; Clinton Yu¹;
 Sara Block¹; Scott Rychnovsky¹; Ning Zheng³; Andrej Sali²;
 Lan Huang¹; ¹University of California, Irvine, Irvine, CA;



- ²University of California at San Francisco, San Francisco, CA; ³University of Washington, Seattle, WA
- WP 149 Novel Reagent Efficiently Esterifies Hydroxyl-Containing Amino Acids and Provides Promise as a Covalent Protein Footprinter; Austin B Moyle¹; Ming Cheng¹; Nicole D Wagner¹; Michael L Gross¹; Washington University in St. Louis, St. Louis, MO
- WP 150 Specific Identification of Dityrosine cross-linked Peptides using 193 nm Ultraviolet Photodissociation Mass Spectrometry; Soumya Mukherjee¹; Mengxuan Fang²; W. Mei Kok³; Eugene Kapp¹; Craig A. Hutton². ³; Gavin Reid².³; Blaine Roberts¹; ¹The Florey Institute of Neuroscience and Mental Health, The University of Melbourne, Melbourne, Australia; ²School of Chemistry, Bio21 Molecular Science and Biotechnology Institute, The University of Melbourne, Parkville, 3010, Melbourne, Australia; ³Department of Biochemistry and Molecular Biology, The University of Melbourne, Parkville, Victoria, 3010, Melbourne, Australia
- WP 151 Assessing the Conformation of Influenza
 Hemagglutinins Using Covalent Labeling and Intact
 Mass Spectrometry Approaches; Jonathan Bundy¹;
 Carrie L. Pierce¹; Dongxia Wang¹; Jakub Baudys¹; Tracie L
 Williams¹; John R. Barr¹; ¹CDC, Atlanta, GA
- WP 152 Structure-Function Relationship of Cyanobacterial Flavodiiron Proteins Revealed by Combined Approaches of in Solution and Computational Methods; Monika Tokmina-Lukaszewska¹; Katherine A Brown²; Zhanjun Guo²; Liam W Scott¹,³; Carolyn E Lubner²; Sharon Smolinski²; David W Mulder²; Brian Bothner¹; Paul W King²; ¹Montana State University, Bozeman, MT; ²National Renewable Energy Laboratory, Golden, CO; ³Indiana University, Bloomington, IN
- WP 153 Measurement of Enthalpies of Ubiquitin Dimerization to Different Dimer Structures; Bingqing Zhao¹;
 Colin P. Reilly¹; James P. Reilly¹; ¹Indiana University,
 Bloomington, IN

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- WP 154 A Multiresidue Approach to Pesticide Screening in Cannabis Using GC-MS/MS; Kari Organtini¹; Kim Tran¹; Kenneth Rosnack¹; Peter Hancock²; Naren Meruva¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Wilmslow, United Kinadom
- WP 155 From Cigarettes to Joints Puff-by-Puff Resolved Analysis of Smoke Constituents of Cannabis Products Other Smoking Devices Using Photoionization TOF-MS; Sven Ehlert¹; Jan Heide²; Andreas Walte¹; Mohammad Saraji-Bozorgzad¹; Matthias Bente v Frowein¹; Ralf Zimmermann²; ¹Photonion GmbH, Schwerin, Germany; ²University of Rostock, Rostock, Germany
- WP 156 Determination of Pesticides and Mycotoxins in Cannabis Using a Simple Extraction Procedure with dSPE Cleanup and LC-MS/MS; Kim Tran¹; Marian Twohig¹; Kari Organtini¹; Michael S. Young¹; Naren Meruva¹; Kenneth Rosnack¹; Rebecca Stevens²; James Roush²; Chris Hudalla²; Sarah Dowd³; Gordon Fujimoto³; ¹Waters Corporation, Milford, MA; ²Proverde Laboratories, Milford, MA; ³Waters Corporation, Beverly, MA
- WP 157 A Novel LCMSMS Method with Dual ESI and APCI Source for Analysis of Pesticides in Cannabis Flower;

 Avinash Dalmia¹; Erasmus Cudjoe²; Jacob Jalali³; Jingcun Wu²; Josh Ye²; Heather Gamble²; Reza Javahery²; Feng Qin²; ¹Perkinelmer, Shelton, CT; ²PerkinElmer, Woodbridge, ON; ³Perkin Elmer, San Jose, CA
- WP 158 Rapid Multipexed Analysis of Cannabinoids and their Metabolites in Urine Using MassHunter StreamSelect LC-MS System; Andre Szczesniewski¹; Kevin McCann¹;

 'Agilent Technologies, Wood Dale, IL

- WP 159 Simplified Sample Preparation for Low Level
 Determination of Cannabis Use from Hair Samples Prior
 to LC-MS/MS Analysis; Katie-Jo Teehan¹; Lee Williams¹;
 Rhys Jones¹; Adam Senior¹; Helen Lodder¹; Geoff Davies¹;
 Alan Edgington¹; Steve Jordan¹; Claire Desbrow¹; Paul
 Roberts¹; ¹Biotage GB Limited, Cardiff, United Kingdom
- WP 160 Quantitation of California Regulated Pesticides in Cannabis Oil by ESI/APCI UHPLC-MS-MS; Jacob Jalali¹; Avinash Dalmia²; Erasmus Cudjoe³; Feng Qin³; Jingcun wu³; Luke Ward⁴; Ben Armestrong⁴; ¹PerkinElmer, San Jose, CA; ²PerkinElmer, Shelton, CT; ³PerkinElmer, Woodbridge, ON; ⁴Juniper Analytics, Bend, OR
- WP 161 Similarities and Differences in the Fragmentation Pathways of Cannabinoid Ions Generated by Electron Impact, Electrospray Ionization, Atmospheric Pressure Chemical Ionization; Allegra Leghissa¹; Zacariah L. Hildenbrand²; Kevin A Schug³; ¹University of Texas, Arlington, Arlington, TX; ²Inform Environmental LLC., Dallas, Texas; ³University of Texas Arlington, Arlington
- WP 162 A Draft Map of the Cannabis Proteome; Benjamin Orsburn¹; Conor Jenkins^{1,2}; ¹Think20 Labs, Columbia, MD; ²Hood College Bioinformatics Program, Frederick, MD
- WP 163 High Throughput Testing of Terpenes in Cannabis Samples by Headspace/Gas Chromatography/
 Mass Spectrometry; Adam Floyd¹; Adam Patkin¹; Lee
 Marotta¹; Charlie Schmidt²; ¹Perkin Elmer, San Jose, CA;
 ²PerkinElmer, San Jose, CA
- WP 164 Streamlining Cannabis Testing using Comprehensive Two-Dimensional Gas Chromatography with Time-of-Flight Mass Spectrometry (GCxGC-TOFMS); Joseph E Binkley¹; Brad Barrett²; David E Alonso²; ¹LECO Corporation, St. Joseph, MI; ²LECO Corporation, St Joseph. MI
- WP 165 Evaluating Cannabinoids and Terpenes in Challenging Matrices Using High-Temperature Headspace-Gas Chromatography-Mass Spectrometry; Don Nguyen^{1, 2}; Seamus Riordan-Short¹; Thu-Thuy Dang²; Rob O'Brien¹; Matthew Noestheden¹; 'Supra R&D, Kelowna, BC; 'University of British Columbia, Kelowna, British Columbia
- WP 166 Comprehensive Untargeted Screening and Quantitation of Pesticides in Cannabis Using GCxGC and High Performance Time of Flight Mass Spectrometry; Gail Harkey¹; Todd Richards¹; Joseph E Binkley²; David E Alonso¹; Lorne Fell¹; ¹LECO Corporation, St Joseph, MI; ²LECO Corporation, St. Joseph, MI
- WP 167

 Does Your Dog Have Anxiety After a Rough Day at the Lake: Analysis of CBD Extracts for Dog Treats; Matthew Curtis¹; Mike Adams²; Karen Kaikaris²; Sarah Aijaz³; Sue D'Antonio¹; Anthony Macherone¹.⁴; ¹Agilent Technologies, Inc., Santa Clara, CA; ²CWC Labs, Cedar Creek, TX; ³MilliporeSigma, Bellefonte, PA; ⁴Johns Hopkins University School of Medicine, Baltimore, MD
- WP 168 Time Saving Sample Prep for the Analysis of 54 Residues in Cannabis Flower by LC-MS/MS; Lisa Wanders; Thomson Instrument Co, Oceanside, CA
- WP 169 MALDI-MS Library of Fingerprint Spectra for Selected Fractions of Cannabis Products; Baylie Gigolyk¹; Helene Perreault¹; ¹University of Manitoba, Winnipeg, MB
- WP 170 An Automated LC-MS/MS Workflow for High-Throughput Pesticide Residue Screening in Cannabis Samples; Mahsan Miladi¹; Tanner Stevenson¹; ¹Agilent Technologies, Santa Clara, CA
- WP 171 The Analysis of Mycotoxins in CBD Oils by LC-MS/ MS; Justin Steimling¹; Megan Pollock¹; Ty Kahler¹; Colton Myers¹; Ashlee Reese¹; Susan Steinike¹; ¹Restek, Bellefonte, PA
- WP 172 Method Development and Validation for Liquid Chromatography/Tandem Mass Spectrometry Determination of Cannabidiol, Tetrahydrocannabinol, and Metabolites in Equine Urine and Plasma; Michael



- WP 173 Screening CBD Oil Pet Supplements for Mycotoxins using LC-MS Quadrupole System with Accurate Mass Calibration; Sue D'Antonio¹; Yongdong Wang²; Don Kuehl²; Anthony Macherone³.⁴; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Cerno Bioscience LLC, Norwalk, CT; ³Agilent Technologies, Wilmington, DE; ⁴Johns Hopkins University School of Medicine, Baltimore, MD
- WP 174 When Matrix Matched Calibration Systems Don't Match Truth: Distinguishing Trueness from Accuracy for THC-COOH in Urine; Matthew T Campbell¹; Kyle Cahill¹; Brian Rappold¹; ¹LabCorp, Research Triangle Park, NC
- WP 175 Solvent-Free Terpene & Cannabinoid Profiling of Cannabis and Cannabis-Infused Consumer Products using Vacuum Assisted Sorbent Extraction (VASE)

 Thermal Desorption-GC-MS; Sage J.B. Dunham¹; Victoria
 L. Noad¹; Daniel B. Cardin¹; ¹Entech Instruments Inc, Simi
 Valley. CA
- WP 176 Analogue and Digital 1 Hz Infusion SCREENING of Mixtures via IBF Droplets; <u>Drew Sauter</u>¹; Ron Shomo²;

 ¹Nanoliter, LLC, Henderson, NV; ²Scientific Instrument Services, Ringoes, NJ
- WP 177 Liquid Chromatography and Tandem Mass
 Spectrometry: The Technique for Analyzing Pesticides
 in Cannabis Flower to Meet Regulatory Requirements in
 Canada; Erasmus Cudjoe¹; Dalmia Avinash²; Jacob Jalali³;
 Jingcun Wu⁴; Josh Ye⁵; Feng Qin⁵; ¹PerkinElmer, Canada,
 Woodbridge, ON; ²Perkinelmer, Shelton, CT; ³Perkin Elmer,
 San Jose, CA; ⁴PerkinElmer, Inc.,, Woodbridge, ON;
 ⁵PerkinElmer Inc., Woodbridge, ON
- WP 178 LC-MS/MS Dilute and Shoot Development and Validation for the Quantitation of 11-Nor-9-Carboxy-THC and Cannabidiol in Urine; Chris Riley¹; Lawrence J Andrade¹; ¹Dominion Diagnostics, North Kingstown, RI
- WP 179 GC/MS and HPLC/MS Characterization of the Terpenes, Sesquiterpenes and Cannabinoids in Cannabis and Cannabis Products; Jodie V Johnson¹; Kari B. Green¹; Adam Christensen²; Daniel Morgan²; ¹Chemistry Dept, University of Florida, Gainesville, FL; ²Botanica Testing LLC, Gainesville, FL

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- WP 180 Resolving the Isomeric Heterogeneity of the Glycome:
 Ultrahigh-Resolution Ion Mobility Separations in
 Structures for Lossless Ion Manipulations; Gabe
 Nagy¹; Isaac K. Attah¹; Sandilya V. B. Garimella¹; Yehia M.
 Ibrahim¹; Richard D. Smith¹; ¹Pacific Northwest National
 Laboratory, Richland, WA
- WP 181 Quantitative Glycomics with Improved Multiplexing Performance by Mass-Defect SUGAR Tags and Both-ends Labeling; Miyang Li¹; Yu Feng²; Lingjun Li¹. ²; ¹Department of Chemistry, University of Wisconsin, Madison, WI; ²School of Pharmacy, University of Wisconsin-Madison, Madison, WI
- WP 182 Introduction of a Novel Labelling Strategy to Facilitate LC-MS Analysis of Released N-Glycans; Phil J Widdowson¹; Zoltan Szabo²; Sheheer Khan²; Jonathan Bones³; Rowan Moore⁴; ¹Thermo Fisher Scientific, Runcorn, United Kingdom; ²Thermo Fisher Scientific, Oyster Point, California; ³National Institute for Bioprocessing Research and Training, Dublin, Ireland; ⁴Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- WP 183 Structural Analysis of Free Oligosaccharides from Bovine Milk with New Mass Spectrometry Method; Chikung Ni¹; WeiChien Weng²; Hsu-Chen Hsu¹; Shang-Ting Tsai¹; Chia Yen Liew¹; Shih-Pei Huang¹; Yu-Shiang Kuo¹;

- ¹Academia Sinica, Taipei, Taiwan; ²Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei City, Taiwan WP 184 Harmonization of Glycan Structure Identification for Translational Human Cardina Glycanias; Christopher
- Translational Human Cardiac Glycomics; Christopher

 <u>Ashwood</u>¹; Matthew Waas¹; Ranjuna Weerasekera¹;
 Rebekah L. Gundry¹; **Medical College of Wisconsin,
 Milwaukee, WI
- WP 185 Ion Pairing Effects in Carbohydrate Ion-Electron Reactions; <u>Isaac Agyekum</u>¹; Kristina Hakansson¹; ¹University of Michigan, Ann Arbor, MI
- WP 186 Avian IgY N-linked Glycan Structural Determination Using Ion Trap Mass Spectrometry; Kate Stumpo¹; Kevin Kover¹; Robert Smith¹; Margret Hatch²; David Ashline³; Vernon Reinhold³; ¹University of Scranton, Scranton, PA; ²Penn State University Scranton, Dunmore, PA; ³University of New Hampshire, Durham, NH
- WP 187 The Quantification of Chondroitin Sulfate in Raw Materials and Dietary Supplements; Martina Hermannova¹; Daniela Smejkalova¹; Tomas Bobula¹; 'Contipro a.s., Dolni Dobrouc, Czech Republic
- WP 188 Structural Characterization of Oligosaccharide Mixtures Using Ultra-High Performance Liquid Chromatography (UHPLC) with Charge Transfer Dissociation Mass Spectrometry (CTD-MS); Praneeth M. Mendis¹; Zachary J. Sasiene¹; David Ropartz²; Helene Rogniaux²; Glen P. Jackson¹.³; ¹C. Eugene Bennett Department of Chemistry, West Virginia University, Morgantown, WV; ²INRA UR1268 BIA, Nantes, France; ³Department of Forensic and Investigative Science, West Virginia University, Morgantown, WV
- WP 189 Characterization of Enoxaparin using LC-MS/MS; S Sameer Kumar Gantasala¹; Dilipkumar Reddy Kandula²; Sri Rama Krishna Surapureddi¹; Sreedhar Reddy Sappidi¹; Manoj Pillai²; Shrikrishna Dadke¹; ¹Vimta Labs Limited, Hyderabad, India; ²SCIEX INDIA, GURUGRAM, India
- WP 190 Sequencing Heparan Sulfate Using Liquid
 Chromatography Tandem Mass Spectrometry; Jiandong
 Wu¹; Juan Wei¹; Pradeep Chopra²; Geert-Jan Boons².³;
 Cheng Lin¹; Joseph Zaia¹; ¹Boston University, Boston, MA;
 ²University of Georgia, Athens, GA; ³Utrecht University,
 Utrecht, Netherlands
- WP 191 A New Method for the Analysis of Bisecting N-Glycans on the Intact Glycopeptides; Liuyi Dang¹; Jiechen Shen¹; Shisheng Sun¹; ¹Northwest University, Xi'an, China
- WP 192 New Method for Highly Sensitive Analysis of Complex Oligosaccharides Based on Filter Aided Sample Preparation and Mass Spectrometry; Amandine Pruvost¹; Christophe Penverne¹; Christian Rolando¹; ¹Université de Lille, Villeneuve d'Ascq, France
- WP 193 Investigating Isoform Structures Found In Enoxaparin Using Negative Electron Transfer Dissociation And Capillary Electrophoresis-Mass Spectrometry; Morgan Stickney¹; Patience Sanderson¹; Franklin E. Leach lii¹; Joshua J Coon²; Michael S Westphall²; Nicholas M Riley²; Qiangwei Xia³; Robert Linhardt⁴; I. Jonathan Amster¹; ¹University of Georgia, Athens, GA; ²University of Wisconsin-Madison, Madison, WI; ³CMP Scientific Corp, New York, NY; ⁴Rensselaer Polytechnic Institute, Troy, NY
- WP 194 A Novel Isobaric Tag Enabled Multiplexed Quantitative Glycomics Analysis for Various Types of N-glycans including Sialic Acid Linkage Isomers; Qinying Yu¹; Yu Feng¹; Lingjun Li¹; ¹University of Wisconsin Madison, Madison
- WP 195 The Unexpected Dissociation Mechanism of Sodiated N-acetylglucosamine and N-acetylgalactosamine; Shih-Pei Huang¹; Shang-Ting Tsai¹; Hou-Yu Lin¹.²; Chi-Kung Ni¹; ¹Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan; ²Department of Chemistry, National Taiwan University, Taipei, Taiwan



- WP 196 Investigation on Isomeric Gangliosides using LC/MS/ MS towards Mouse Brain Regional Mapping; <u>Jua Lee</u>1; Jaekyung Yun¹; Heeyoun Hwang¹; Hee-sup Shin²; Hyun Joo An¹; ¹Chungnam National University, Daejeon, South Korea; ²Institute for basic science, Daejeon, South Korea
- WP 197 Isomeric Separation of Permethylated Glycans by Extra-Long Reversed-Phase Liquid Chromatography (RPLC)-MS; Xue Dong¹; Yifan Huang¹; Jingfu Zhao¹; Aiying Yu¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- WP 198 Discrimination of Metal Adducted Sialylated
 Carbohydrate Isomers by Ion Mobility Spectrometry,
 Electron Transfer, and Vibrational Activation; Anna J.

 Diepenbrock¹; Eric D. Dodds¹; ¹University of Nebraska Lincoln, Lincoln, NE
- WP 199 Degradation Pathway of β-Cyclodextrin by Electrospray Ionization Mass Spectrometry and Liquid Chromatography with Evaporative Light Scattering Detection; Hengwen Zhong¹; Peter Wang¹; Tao Jiang¹; ¹Mallinckrodt, Hazelwood, MO
- WP 200 Characterization of Sodium and Lithium Cationized Mono and Disaccharides Using High Resolution IMS and Tandem IMS Techniques; Paul Scott Soma¹; Matthew T Campbell¹; Andrew Baker²; Martin Palmer³; Dale Cooper-Shepherd³; Gary Glish¹; ¹University of North Carolina, Chapel Hill, NC; ²Waters Corporation, Pleasanton, CA; ³Waters, Wilmslow, United Kingdom
- WP 201 Determining the Structure of the Glycan Bearing the Bisecting GlcNAc on Human Placenta Membrane Using Mass Spectrometry; Qiushi Chen¹; Yuanliang Zhang¹; Zhilong Lin¹; Yan Ren¹; Siqi Liu¹; ¹BGI-Shenzhen, Beishan Industrial Zone 11th Building, Yantian District, Shenzhen City, China
- WP 202 A Facile and Unbiased Method for Comprehensive Glycome Characterization; Juan Wei¹; Yang Tang²; Pengyu Hong³; Catherine E. Costello¹,²; Cheng Lin¹; ¹Department of Biochemistry, Boston University School of Medicine, Boston, MA; ²Department of Chemistry, Boston University, Boston, MA; ³Department of Computer Science, Brandeis University, Waltham, MA
- WP 203 Isoforms of Carbohydrates Identified by 2D UV-MS of Non-Covalent Complexes with Aromatics; Oleg V. Boyarkine; EPFL, Lausanne, Switzerland
- WP 204 Separation and Identification of Glycan Anomers
 Using Ultrahigh-Resolution Ion Mobility Spectrometry
 Combined with Cryogenic IR Spectroscopy; Stephan
 Warnke¹; Ahmed Ben Faleh¹; Thomas R. Rizzo¹; ¹Ecole
 Polytechnique Federale de Lausanne, Lausanne,
 Switzerland
- WP 205 **Dual Enzymatic Digestion Enabling Simultaneous**Release of Glycans from Glycoproteins and Glycolipids;
 Seth D Williamson¹; Andrew Cho¹; Jair Montford¹; Yehia
 Mechref¹; ¹Texas Tech University, Lubbock, TX

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- WP 206 Noninvasive Analysis and Delivery of Vitamin D3 in the Skin; Issae Mall"; Marcel Musteata¹; *Albany College of Pharmacy, Albany, NY
- WP 207 An Ultra-Sensitive Paper-Based Diagnostic Platform of Detecting Colorectal Cancer via Mass Spectrometry;
 Suji Lee¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- WP 208 Rapid, Robust and High-Throughput Proteome Analysis by High-Flow LC-MS/MS; Yangyang Bian¹; Runsheng Zheng¹; Yun-Chien Chang¹; Jana Zecha¹; Stephanie Heinzlmeir¹; Daniel P Zolg¹; Oleksandr Boichenko²; Mike Baynham³; Bernhard Kuster¹. 4.5; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; ²Thermo Fisher Scientific, Germering, Germany; ³Thermo Fisher Scientific, Runcorn, United Kingdom;

- ⁴Center for Integrated Protein Science Munich, Freising, Germany; ⁵Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany
- WP 209 A High Throughput and High Resolution LC-MS/MS
 Method to Measure IGF1 in Serum for Clinical Research;
 Xiaolei Xie; ThermoFisher Scientific, San Jose, CA
- WP 210 Faecal Metabolomics by Conventional UHPLC-HRMS as well as Novel LA-REIMS Reveals Relevant Metabolic Perturbations in Type 2 Diabetes; Lieven Van Meulebroek¹; Simon Cameron²; Bruno Lapauw³; Zoltan Takats²; Lynn Vanhaecke¹; ¹Ghent University, Merelbeke, Belgium; ²Imperial College, London, United Kingdom; ³Ghent University Hospital, Ghent, Belgium
- WP 211 Clinical Evaluation of Coated Blade Spray Mass Spectrometry for the Concomitant Determination of Four Immunosuppressive Drugs in Whole Human Blood; Daniel Rickert¹; German Augusto Gomez-Rios^{1,2}; Emir Nazdrajić¹; Marcos Tascon^{1,3}; Vathany Kulasingam^{4,5}; Janusz Pawliszyn¹; †University of Waterloo, Waterloo, ON; ²Restek Corporation, Bellefonte, PA; ³Instituto de Investigación e Ingenieria Ambiental (3iA), Universidad Nacional de San Martín (UNSAM), San Martín, Argentina; ⁴Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Ontario; ⁵Department of Clinical Biochemistry, University Health Network, Toronto, Ontario
- WP 212 An Approach to Screening Clinical Samples for Novel Fentanyls using High Resolution Tandem Mass Spectrometry; Kenneth D. Swanson¹; Rebecca L. Shaner¹; William A. Bragg¹; Logan C. Krajewski²; Elizabeth I. Hamelin¹; Melissa D. Carter¹; Rudolph C. Johnson¹;

 ¹Emergency Response Branch, Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA;
 ²Battelle Memorial Institute at the Centers for Disease Control and Prevention, Atlanta, GA
- WP 213 Different Approaches for Vitamin D Determination in Newborns by LC-MS/MS; Rafal Rola^{1, 2}; Konrad Kowalski²; Tomasz Bienkowski²; Jacek Witwicki³; ¹Nicolaus Copernicus University, Torun, Poland; ²Masdiag Sp. z o.o., Warsaw, Poland; ³Bielanski Hospital, Warsaw, Poland
- WP 214 A Simple Analysis of Catecholamines in Cell Cultures by LC/MS/MS Using an Ion-Pairing Reagent Added to Final Extracts; Yi Zhao¹; Peiling Hou²; Shu Qing Chan³; Weiying Sim¹; Lisa Helen Ong¹; Jie Xing²; ¹Department of Clinical Research, Singapore General Hospital,, Outram Road, Singapore; ²Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd, Singapore; ³School of Chemical and Life Sciences, Singapore Polytechnic, Singapore
- WP 215 Application of the HPLC-MS/MS Method in Studying Individual Metabolic Differences of Cyclosporin A in Bone Marrow Transplant Patients; Wang Lei^{1,2}; Liu hong xing^{2,3,4}; Liu rui¹; Yang zi yi¹; ¹HebeiYanda Lu Daopei Hospital, Langfang, China; ²Beijing Lu Daopei Hospital, Beijing, China; ³HebeiYanda Lu Daopei Hospita, Langfang, China; ⁴Beijing Lu Daopei Institute of Hematology, Beijing, China
- WP 216 Intra-Surgical Diagnosis of IDH Mutation in Human Glioma using a Miniature Mass Spectrometer; Fan Pu¹; Clint M Alfaro¹; Hannah M Brown¹; Zheng Ouyang¹.

 ²; Graham R. Cooks¹; ¹Department of Chemistry, Purdue University, West Lafayette, IN 47907; ²Tsinghua University, Beijing, China
- WP 217 High-Throughput Analysis of Neuroleptic Drugs in Plasmas using LDTD-MS/MS Technology; <u>Jacques Corbeil</u>^{1, 2}; Serge Auger³; Pier-Luc Plante^{1, 2}; Jean Lacoursière³; Pierre Picard³; ¹Université Laval, Quebec, Quebec; ²Infectiology Research Centre, CHU de Québec, Laval University, Québec, QC; ³Phytronix Technologies, Quebec, QC



WP 219 High-Sensitivity Analysis of a Steroid Panel Samples using Micro-Flow LC-MS/MS for Clinical Research;
Narumi Shirai¹; Takanari Hattori²; Mikael Levi²; Shoji F.
Nakayama³; Shigeru Suzuki¹; ¹Chubu University, Kasugai,
Japan; ²Shimadzu Corporation, Kyoto, Japan; ³National
Institute for Environmental Studies, Tsukuba, Japan

²Thermo Fisher Scientific, Courtaboeuf, France

- WP 220 Using Superficially Porous Phenyl Phase Selectivity for Benzodiazepine Separations; William Long¹; Carl Griffin²; Anne E Mack²; Emily Parry²; Charles Lofton²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Inc., Wilmington, DE
- WP 221 A Systematic Study of Hydrolytic Degradation of Acylcarnitines During Sample Preparation and Analysis in Newborn Screening Using Tandem Mass Spectrometry; Timothy Lim¹; Donald H Chace¹; Konstantinos Petritis¹; ¹Centers for Disease Control and Prevention. Chamblee. GA
- WP 222 Translation of a Top-Down Proteomics IgG Workflow to the Mayo Clinic to Characterize Monoclonal Gammopathies; Ryan T Fellers¹; Richard D Leduc¹; Bryan P Early¹; Rafael D. Melani¹; Joseph B Greer¹; Surendra Dasari²; Patrick M Vanderboom²; Angela Dispenzieri²; David L Murray²; Paul M Thomas¹; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²Mayo Clinic, Rochester, MN
- WP 223 Isotopic Peak Index: A Novel Nomenclature to Help Simultaneously Detect and Identify 13 IGF-1 Variants during Routine Clinical Analysis; Levgen Motorykin; Michael J McPhaul; Zengru Wu; Quest Diagnostics, San Juan Capistrano, CA
- WP 224 Case-Control Study: Expanded Proteomics and Lipidomic Profiling for Early Prediction of Major Adverse Cardiac Events; Qin Fu¹; Irina Tchernyshyov¹; Ronald Holewinski¹; Vidya Venkatraman¹; David Sarracino²; Casey Johnson¹; Kelly Njine Mouapi¹; Susan Cheng³; Chrisandra Shufelt³; Brennan Spiegel*; Noel Bairey Merz³; Scott Peterman²; Jennifer Van Eyk¹.³; ¹Advanced Clinical Biosystems Research Institute, The Smidt Heart Institute, Cedars-Sinai Medical Center, Los Angeles, CA 90048, Los Angeles,, CA; ²Thermo Fisher Scientific, Cambridge, MA; ³Barbra Streisand Women's Heart Center, The Smidt Heart Institute, Cedars-Sinai Medical Center, Los Angeles, CA; ⁴Clinical and Translational Science Institute, Cedars-Sinai Medical Center, Los Angeles, CA
- WP 225 Biomarker Detection Utilizing a Desktop IMS-MS Device with Electrospray Ionization High Resolution Drift Time Ion Mobility-Linear Ion Trap Mass Spectrometer; Julia L. Kaszycki¹; Gregory F. Brabeck¹; Aurelio La Rotta¹; Ching Wu¹; ¹Excellims Corporation, Acton, MA
- WP 226 The MasSpec Pen for the Rapid Detection of Primary Breast Cancer and Breast Cancer Metastasis; Kyana Y Garza¹; Jialing Zhang¹; John Lin¹; Stacey Carter²; James Suliburk²; Chandandeep Nagi²; Livia S Eberlin¹; ¹University of Texas at Austin, Department of Chemistry, Austin, TX; ²Baylor College of Medicine, Houston, TX
- WP 227 Ambient Mass Spectrometry Mapping of Lipid Fingerprints in Healthy and Cancerous Human Colorectal Tissues; Yasmin Shanneik¹; Emrys A. Jones²; Bipasha Chakrabarty³; Kaye J. Williams⁴; Omer Aziz³; Steven Pringle²; Adam W. McMahon¹; ¹Wolfson molecular imaging centre, The University of manchester, Manchester, United Kingdom; ²Waters Corporation, Manchester, United Kingdom; ⁴The University of Manchester, Division of Pharmacy & Optometry, Manchester, United Kingdom

- WP 228 Quantitative N-Glycan Profiling of Clinical Tissue Samples by On-Line Fluorescence-MS Using a Rapid Labeling Tag; Sarah Totten¹; Andres Guerrero²; John Yan³; Aled Jones³; James D. Brooks⁴; Abel Bermudez¹; Sharon J. Pitteri¹; ¹Stanford University School of Medicine, Canary Center at Stanford for Cancer Early Detection, Palo Alto, CA; ²ProZyme, A part of Agilent, Hayward, CA; ³ProZyme, Hayward, CA; ⁴Department of Urology, Stanford University School of Medicine, Stanford, California
- WP 229 Development of LC-MS/MS Method for Detection Endogenous Steroids; Konrad Piotr Kowalski¹; Joanna Waś²; Magdalena Niedolistek²; ¹Masdiag Sp. z o.o., Warszawa, Poland; ²Department of Medical Biology, Institute of Cardiology, Warsaw, Poland
- WP 230 Structures for Lossless Ion Manipulations (SLIM)-Mass Spectrometry (MS) for High Resolution Ion Mobility Analysis of Immunosuppressive Drugs; Kelly Wormwood¹; Laura Maxon¹; Daniel DeBord¹; 'MOBILion Systems Inc., Exton, PA
- WP 231 Method Development and Validation of LC-MS/ MS Based Assay for Detection of Carfentanil and Norcarfentanil in Human Urine; <u>Difei Sun</u>¹; Danijela Konforte¹; Jan Palaty²; ¹Lifelabs Medical Laboratories, Toronto, ON; ²Lifelabs Medical Laboratories, Burnaby, BC
- WP 232 HarmCheck: Direct Mass Spectrometry Harm Reduction Drug Checking for use in the Opioid Overdose Crisis; Scott A. Borden^{1, 2}; Jan Palaty³; Erik T. Krogh^{1, 2}; Christopher G. Gill^{1, 2, 4, 5}; ¹Appl. Env. Res. Labs. (AERL), Vancouver Island University, Chemistry Department, Nanaimo, BC; ²University of Victoria, Chemistry Department, Victoria, BC; ³Lifelabs Medical Laboratories, Burnaby, BC; ⁴Simon Fraser University, Chemistry Department, Burnaby, BC; ⁵University of Washington, DEOHS, Seattle, WA
- WP 233 Quantitative Proteomic Assessment of Differences and Stability of Human Serum and Plasma Proteins; Sumio Ohtsuki¹; Madoka Nanbu¹; Shin Nishiumi²; Takashi Kobayashi²; Shingo Ito¹; Takeshi Masuda¹; Masaru Yoshida²; ¹Kumamoto University, Kumamoto, Japan; ²Kobe University, Kobe, Japan
- WP 234 Probe ElectroSpray Ionization Mass Spectrometry for Cholangiocarcinoma Tumor and Healthy Tissues Rapid Identification; Silvia Giordano¹; Hidekazu Saiki²; Hiroki Nakajima²; Matteo Donadon³; Matteo Cimino³; Cristiana Soldani³; Barbara Franceschini³; Guido Torzilli³; Enrico Davoli¹; *Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milan, Italy; *2Shimadzu Corporation, Kyoto, Japan; *3Humanitas Clinical and Research Center IRCCS, Rozzano, Italy

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- WP 236 Drug Discovery Applications of ADE-OPP-MS (Acoustic-Droplet-Ejection coupled Open-Port-Probe Mass Spectrometry) Platform; Hui Zhang¹; Wenyi Hua¹; Chang Liu²; Jianua Liu¹; David Cox²; Anthony Carlo¹; Matt Troutman¹; Tom Covey²; ¹Pfizer Inc., Groton, CT; ²SCIEX, Concord, ON
- WP 237 Acoustic Droplet Ejection (ADE) and Open Port Probe (OPP) Sampling Interface for High Throughput Analysis of ADME Assays; Tom Hollenbeck¹; John Isbell¹; Patrick White¹; Lucas Westling¹; Ashley Chong¹; Stefan Thibodeaux²; ¹GNF (Novartis), San Diego, CA; ²Novartis, Cambridge, MA



- WP 238 High-Throughput Analysis of Synthetic Samples from High-Density Microplates with ESI-MS Enabled by the Acoustic-Droplet-Ejection to the Open-Port Probe sampling interface; Wenyi Hua¹; Chang Liu²; Kenneth Dirico¹; Joseph Tucker¹; Thomas R. Covey²; Hui Zhang¹;

 1 Pfizer Inc., Groton, CT; 2 SCIEX, Concord, ON
- WP 239 Effect of Increased Plate Density on Sensitivity in High-Throughput LDTD-MS; Pierre Picard¹; Pier-Luc Plante²; Sarah Demers¹; Serge Auger¹; Jean Lacoursière¹; ¹Phytronix Technologies, Inc., Quebec, QC; ²Université Laval, Quebec, Quebec
- WP 240 Enzyme Activity Assay of an Engineered Human Homocyst(e)inase in Mammalian Serum using LC-MS/MS; Dale Schoener¹; Silvia Ferrati²; Forrest Helfrich¹; Jennifer Zarzoso¹; Susan Alters²; Mike Buonarati¹; ¹Intertek Pharmaceutical Services, San Diego, CA; ²Aeglea Biotherapeutics, Austin, TX
- WP 241 Improved Kinome Coverage and Automated Data Analysis Pipeline for Large-Scale Kinase Inhibitor Screens; Maria Reinecke^{1, 2}; Florian Seefried¹; Svenja Petzold^{1, 2}; Tobias Schmidt¹; Patroklos Samaras¹; Mathias Wilhelm¹; Stephanie Heinzlmeir¹; Benjamin Ruprecht¹; Guillaume Medard¹; Bernhard Kuster¹; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; ²German Cancer Consortium (DKTK), DKFZ partner site, Munich, Germany
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 Aarti Kawatkar¹; Timothy Rasmusson¹; Paola Castaldi¹;

 ¹Discovery Sciences, IMED Biotech Unit, AstraZeneca,

 Waltham, MA; ²Chemistry, IMED Biotech Unit, AstraZeneca,

 Cambridge, United Kingdom; ³Bioscience, Oncology, IMED

 Biotech Unit, AstraZeneca, Waltham, MA
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- WP 245 High Resolution MS for 3D Culture Hepatic in vitro Models Metabolite Identification; Sujoy Lahiri¹; Kate Comstock²; ¹Thermo Fisher Scientific, Frederick, MD; ²Thermo Fisher Scientific, San Jose, CA
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 Romanelli²; Joseph Janiszewski³; Wayne Lootsma³; John
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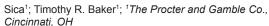
 2SCIEX, Concord, ON; 3Sound Analytics, Niantic, CT; ⁴J2Bioanalytical, Westerly, RI
- WP 247 Development and Optimization of an Integrated Trapand-Elute Microflow LC-MS/MS Platform; Brendon Kapinos¹; Mary Piotrowski¹; Hui Zhang¹; John Janiszewski²; Wayne Lootsma³; Steve Ainley³; ¹Pfizer, Groton, CT; ²J2-Bioanalytical, Westerly, RI; ³Sound Analytics, Niantic, CT
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- Linlin Luo¹; Wendy Miller¹; Craig Titsch¹; Johanna Mora¹; Gerry Kolaitis¹; ¹Bristol-Myers Squibb, Princeton, NJ
- WP 250 Ion Mobility-Enabled Metabolite Identification of Tienilic Acid and Tienilic Acid Isomer; Lauren Mullin¹; Giorgis Isaac¹; Ian D Wilson²; Gordon Murray³; Nathan Andersen¹; Robert S Plumb¹; ¹Waters Corporation, Milford, MA; ²Imperial College London, London, SW7 2AZ; ³Waters Corp.. Beverly, MA
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 ²Janssen Research and Development, Spring House, PA
- WP 252 Pharmacokinetic Analysis of an Alzheimer's Disease Therapeutic in Rat Serum via 908devices ZipChip CZE-MS; Zachary Kelley¹; Mark Lovell¹.²; Bert C. Lynn¹; ¹Department of Chemistry, University of Kentucky, Lexington, KY; ²Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY
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- WP 259 Non-Targeted Metabolomic Study on Variation of Phenolics in Different Cranberry Cultivars Using UPLC-IM-HRMS; Yifei Wang^{1, 2}; Nicholi Vorsa³; Peter de B. Harrington²; Pei Chen¹; ¹U.S. Department of Agriculture, Agricultural Research Service, Beltsville Human Nutrition Research Center, Food Composition and Methods Development Laboratory, Beltsville, MD; ²Center for Intelligent Chemical Instrumentation, Department of Chemistry & Biochemistry, Ohio University, Athens, OH; ³Philip E. Marucci Center for Blueberry and Cranberry Research and Extension, Rutgers University, Chatsworth, NJ
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- WP 264 The Effects of Boiling Time on the Wort Proteome during Beer Production; Katherine Cordova¹; Ray Bacala¹; Marta Izydorczyk¹; Dave Hatcher¹; ¹Canadian Grain Commission, Winnipeg, MB
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- Mawhinney¹; Yiyi Li¹; Deborah L Chance¹; James K Waters¹; ¹University of Missouri. Columbia, MO
- WP 274 In-Depth Profiling of Beetroot Bioactive Compounds by DAD-ESI-LC/MS/MS; Nebiyu Abshiru¹; Boris Nemzer¹; ¹VDF FutureCeuticals, Inc., Momence, IL
- WP 275 Dereplication of Betalain Derivatives in Different Color of Djulis (Chenopodium formosanum) using UHPLC-DAD-ESI-Orbitrap; <u>Gui-ru Xie</u>¹; Hong-Jhang Chen¹;

 1 National Taiwan University, Taipei, Taiwan

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- WP 286 A Quantitative Method to Detect Penicillin in Limited Amounts of Bovine Tissues Using Liquid Chromatography and Tandem Mass Spectrometry (LC/MS/MS); Linge Li¹; Karyn D. Howard¹; Christine Kilonzo¹;



- Raoul Gonzales¹; Michael Myers¹; ¹FDA/Center for Veterinary Medicine, Office of Research, Laurel, MD 20708
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- WP 289 Sensitive Determination of Polar Anionic Pesticides in Wheat Flour by Stable Isotope Dilution Ion Chromatography-Tandem Mass Spectrometry; Yingchen Li¹; Qilei Guo¹; Tao Bo¹; ¹Thermo Fisher Scientific, Beijing, China
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 ¹Konkuk university. Seoul. South Korea
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 Tasuku Murata¹; Koretsugu Ogata¹; Yuji Nagashima²;

 ¹Shimadzu Corporation, Kyoto, Japan; ²Food Industry, Department of Food Industry, Niigata Agro-Food University, Niigata, Japan
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- WP 298 QuEChERS Extracted Pesticide Quantitation by LCMS QTOF using High Resolution Accurate Mass Acquisition Acquired at High Data Acquisition Speed; Alan Barnes¹; Steve Williams²; Christopher Titman¹; Neil Loftus¹;

 1 Shimadzu Corporation, Manchester, United Kingdom;
 2 Concept Life Sciences, Cambridge, United Kingdom

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 Jean Lacoursière¹; Serge Auger¹; Sarah Demers¹; Pierre Picard¹; ¹Phytronix Technologies, Quebec, QC
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TX; 2Thermo Fisher Scientific, Austin, TX

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- WP 319 Comparing the Results of Trace Chemical Analyses of ~200 Compounds Using GC-HRMS vs. APGC-QQQ Systems; Daryl Smith¹; Wendy Zhao¹; Xiangjun Liao¹; Sue Quade¹; Amy Sadler¹; Valerie Casey¹; Thea Rawn¹; ¹Health Canada. Government of Canada. Ottawa. ON
- WP 320 Emerging Contaminants in Valparaiso, Chile Rain Water: Changes in Composition and Concentration Levels over Fifteen Years (2003-2017); Olga Polyakova¹; Viatcheslav Artaev²; Victor Vidal³; Francisco Cereceda³; Katalina Gonzalez Arincibia³; Albert Lebedev¹; ¹Moscow State University, Moscow, Russian Federation; ²LECO Corporation, St Joseph, MI; ³Universidad Técnica Federico Santa María, Valparaiso, Chile
- WP 321 DMEITM Source with a Reaction Cell A New Advances in Ion Generation for GC-MS/MS; Harikrishnan Sukumar¹; Heather Gamble¹; Dante Sanchez¹; Victor Titov¹; Anna Kornilova¹; Reza Javahery¹; ¹PerkinElmer Inc., Woodbridge, ON
- WP 322 Vacuum Assisted Sorbent Extraction (VASE) and a Dual-Column Thermal Desorption Approach for GC-MS Analysis of Trace-Level Polycyclic Aromatic Hydrocarbons; Sage J. B. Dunham¹; Victoria L. Node¹; Daniel B. Cardin¹; ¹Entech Instruments Inc, Simi Valley, CA
- WP 323 Vacuum Assisted Sorbent Extraction for the Detection of Butyric Acid and other Short-Chain Fatty Acids by Headspace-GCMS-Headspace without Derivatization; Tyler B. Van Ry¹; Sage J.B. Dunham²; Victoria L. Noad²; Daniel B. Cardin²; James Eric Cox¹; ¹Department of Biochemistry, University of Utah, Salt Lake City, UT; ²Entech Insruments, Simi Valley, CA
- WP 324 Detection and Quantification of Fragrance Allergens in Complex Matrices Using GC-Orbitrap MS Technology;
 Richard Law¹; Xin Zheng²; Cristian I Cojocariu¹; Jason
 Cole²; ¹Thermo Fisher Scientific, Runcorn, United Kingdom;
 ¹Thermo Fisher Scientific, Ausitn, TX
- WP 325 Development of an Integrated Qualitative Analysis
 Coupled with EI and Soft Ionization Data for GCHRTOFMS System; Masaaki Ubukata¹; Kenji Nagatomo¹;

- Ayumi Kubo¹; Takaya Satoh¹; John Dane²; ¹JEOL, Ltd., Tokyo, Japan; ²JEOL USA, Inc., Peabody, MA
- WP 326 Multicomponent Analysis of Metabolites in Chinese Caterpillar Fungus using Gas Chromatography-Triple Quadrupole Mass Spectrometry; Xiaoming Bao¹; Peng Tan²; Jun Fan³; Taohong Huang³; ¹Shimadzu (China) Co., Ltd, Chengdu, China; ²Chengdu Institute for Food and Drug Control, Chengdu, China; ³Shimadzu (China) Co., Ltd, Shanghai, China
- WP 327 Workflow Solutions for Direct Insertion, Real-Time Gas Chromatography -Mass Spectrometry; Ken Lynam¹;
 Angela Henry¹; Luis Cuadra-Rodriguez²; Wei Song¹; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Santa Clara, CA
- WP 328 A Novel Soft Ionization Plasma Source for GC-MS/MS Applications; Mehrnaz Sarrafzadeh¹; Charles Jolliffe¹; Dmitry Valyaev¹; Reza Javahery¹; ¹PerkinElmer Inc., Woodbridge, ON
- WP 329 **Dual Mode Ionization Source (DMEI Source)**; <u>Anna Kornilova</u>¹; Dante Sanchez¹; Harikrishnan Sukumar¹; Reza Javahery¹; Harpreet Singh¹; ¹PerkinElmer, Inc.,, Woodbridge, ON

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- WP 330 Comparison of the Ionization Efficiency of N-Linked Glycopeptides by Matrix Assisted Laser Desorption Ionization and Electrospray Ionization; Richard J Bell¹; Eric D Dodds¹; ¹University of Nebraska Lincoln, Lincoln, NE
- WP 331 Evaluating the Utility of a HILIC Model for Predicting Glycan Retention across Differing Stationary Phases and Tagging Chemistries; Naglaa Sheiba¹; Mark Han²; Ron Orlando¹; ¹Complex Carbohydrate Research Center, University of Georgia, athens, Georgia; ²Reference Standards Laboratory, The United States Pharmacopeial Convention, Rockville, Maryland 20852
- WP 332 Analysis of Mucin Proteins by Charge Detection Mass Spectrometry; <u>Lauren F Barnes</u>¹; Benjamin E Draper¹; Nicholas A Lyktey¹; Martin F Jarrold¹; ¹Indiana University, Bloomington, IN
- WP 333 N-Linked Glycosylation Site Mapping in Prostate Cancer and Matched Normal Tissue: Defining Alterations in Glycan Microheterogeneity; Sarah Michelle Totten¹; Abel Bermudez¹; Sharon J. Pitteri¹; James D. Brooks²; ¹Stanford University School of Medicine, Canary Center at Stanford for Cancer Early Detection, Palo Alto, CA; ²Stanford University School of Medicine, Stanford, CA, 94305
- WP 334 Analysis of O-glycosylated Biopharmaceuticals using an O-glycan dependent Endoprotease and LC-MS;

 Andreas Nägeli¹; Philip J. Widdowson²; Maria Nordgren¹;
 Tom Buchanan²; Rolf Lood¹; Fredrik Leo¹; Helen Nyhlen¹;
 Jonathan Sjögren¹; Rowan Moore²; Fredrik Olsson¹;

 ¹Genovis AB, Lund, Sweden; ²Thermo Fisher Scientific,
 Runcorn, United Kingdom
- WP 335 Detection of Site-Specific N-Glycosylation on the AAV8 Capsid Protein using High-Resolution Mass Spectrometry; Arya Aloor; Georgia State University, Atlanta, GA
- WP 336 Modification of Cell Membrane Glycosylation with Inhibitors and Characterization with nanoLC-MS; Qing W Zhou¹; Yixuan Xie²; Qiongyu Li¹; Maurice Wong³; Carlito B Lebrilla¹; ¹University of California, Davis, Davis, CA; ²University of California, Davis, Davis, CA; ³University of California Davis, Davis, CA
- WP 337 Ionic Charge Manipulation using Solution and gas-Phase Chemistry to Facilitate Analysis of Highly Heterogeneous Proteins by ESI-MS; Yang Yang¹; Chendi Niu¹; Cedric E. Bobst¹; Igor A. Kaltashov¹; ¹Department of Chemistry, University of Massachusetts-Amherst, 240 Thatcher Way, Life Science Laboratories N369, Amherst, MA



- WP 338 Ion Mobility Collisional-Cross Section Values Facilitate Identification and Quantification of N-Glycan Structure Isomers and Permit Automated Processing of HILIC-UPLC-FLD-TIMS-CID-MS/MS data; Sven Bahrke¹; Robert Wilmanowski¹; Sheira Mujica²; Wolfgang Jabs²; Stuart Pengelley³; Detlev Suckau³; ¹Glycotope GmbH, Berlin, Germany; ²Beuth-Hochschule, Berlin, Germany; ³Bruker Daltonik GmbH, Bremen, Germany
- WP 339 High Throughput Profiling of Glycans Released from Therapeutic Glycoproteins via micro-Permethylation at the CCRC; Stephanie A Archer-Hartmann¹; Asif Shajahan¹; Nitin Tatyaso Supekar¹; Christian Heiss¹; Parstoo Azadi¹;

 1 University of Georgia, Athens, GA
- WP 340 Identification of N-Glycopeptides using Electron Transfer/High-energy Collision Dissociation (EThcD);

 Rui Zhang¹; Xue Dong²; Jianhui Zhu³; David M. Lubman³; Yehia Mechref²; Haixu Tang¹; ¹Indiana University

 Bloomington, Bloomington, IN; ²Texas Tech University,

 Lubbock, TX; ³University of Michigan Medical Center, Ann

 Arbor, MI
- WP 341 Analysis of IgA1 O-Glycosylation in Familial IgA Nephropathy; Ellenore P. Craine¹; Audra A. Hargett²; Hiroyuki Ueda^{2,3}; Yoshimi Ueda^{2,3}; Colin Reily²; Zina Moldoveanu²; Stacy D. Hall²; Dana V. Rizk²; Krzysztof Kiryluk⁴; Ali G. Gharavi⁴; Takashi Yokoo³; Bruce A. Julian²; Matthew Renfrow²; Jan Novak²; ¹University of Alabama at Birmingham, Birmingham, ²University of Alabama at Birmingham, Birmingham, Alabama; ³The Jikei University School of Medicine, Tokyo, Japan; ⁴Columbia University College of Physicians and Surgeons, New York, 10032
- WP 342 Characterizing HIV-1 Envelope N-Glycan Shield: A Glycomics and Bioinformatics Method; Audra Hargett¹; Qing Wei¹; Barbora Knoppova²; Stacy Hall¹; Milan Raska¹. ²; Zina Moldoveanu¹; Todd Green¹; Jan Novak¹; Matthew B. Renfrow¹; ¹University of Alabama at Birmingham, Birmingham, AL; ²Palacky University in Olomouc, Olomouc, Czech Republic
- WP 343 Site Specific N-Glycosylation of Afamin Expressed in a Baculoviral System; Mislav Novokmet¹; Andreas Naschberger²; Stefan Lechner²; Bernhard Rupp²; Gordan Lauc¹.³; ¹Genos, Glycoscience Laboratory, Borongajska cesta 83h, Croatia; ²Department of Genetic Epidemiology, Medical University Innsbruck, Schöpfstr. 41, Austria; ³University of Zagreb Faculty of Pharmacy and Biochemistry, A. Kovačića 1, Croatia
- WP 344 Enzyme Toolkit for Selective Enrichment and Analysis of Mucin-Domain Glycoproteins; Stacy Malaker¹; Judy Shon¹; Kayvon Pedram¹; Nicholas M Riley¹; Carolyn R Bertozzi¹.²; ¹Stanford University, Palo Alto, CA; ²Howard Hughes Medical Institute, Stanford, CA
- WP 345 Improving the Glycomics Fidelity of Cancer Cells in vitro by using a Physiological Cell Culture Medium;

 Junyao Wang¹; Wenjing Peng¹; Yehia Mechref¹;

 ¹Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, Texas
- WP 346 Glycopeptide Micro-Heterogeniety: A Case Study in Antibody Glycans; Anand Patel¹; Stefano Bonissone¹; Natalie Castellana¹; Digital Proteomics, LLC., San Diego, CA
- WP 347 Identification of Core-Fucosylated Glycoprotein as Potential Biomarker of Alzheimer's Disease; Ding Liu¹; Cheng Ma¹; Peng George Wang²; Georgia state university, Atlanta, GA; Georgia State University, Atlanta, GA
- WP 348 Determination of Human Immunoglobulin Glycoforms by timsTOF Pro Sequencing Analysis; <u>Kim Alving</u>¹; Anjali Alving²; Aharon Cohen¹; Bing Wang¹; ¹Sanofi, Waltham, MA; ²Bruker Scientific, Billerica, MA

- WP 349 Fast Analysis of Glycans using LC-MS and Proteinase K Digestion; Suping Zheng¹; Jie Ding¹; ¹PPD, Inc., Middleton, WI
- WP 350 Characterizing Intact N-linked Glycoproteins with 2-Dimensional HPLC-MS: A Machine Learning Pipeline for Mapping Glycoproteoforms in Multidimensional Space; <u>Jiana Duan</u>¹; Weiwei Rong¹; Shengkun Dai¹; Steven Matthew Patrie¹; *Northwestern University, Evanston, IL

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- WP 351 Metabolomics in Nonhuman Primate Models for Radiation Biodosimetry in Emergency Preparedness; Evan Pannkuk¹; Evagelia C Laiakis¹; Kirandeep Gill¹; Shreyans K Jain¹; Khyati Y. Mehta¹; Denise Nishita²; Kim Bujold³; James Bakke²; Janet Gahagen²; Simon Authier³; Polly Chang²; Albert J Fornace¹; ¹Georgetown University, Washington Dc, DC; ²SRI International, Menlo Park, CA; ³CiToxLAB North America, Laval, QC
- WP 352 A Clinical Assay for Botulinum Neurotoxins through
 Mass Spectrometric Detection; Kaitlin M Hoyt¹; Suzanne
 R Kalb¹; John R. Barr¹; Carolina Luquez¹; Janet K. Dykes¹;

 **Centers for Disease Control and Prevention, Chamblee, GA
- WP 353 Detection and Analysis of Simulated Chemical Warfare Agents via Portable Mass Spectrometry; Camila
 Anguiano Virgen¹; James D. Fox²; Jaime L. Winfield²;
 Kenneth C. Wright²; Guido F. Verbeck¹; ¹University of North Texas, Denton, TX; ²Inficon, East Syracuse, NY
- WP 354 Validation of an LC-MS/MS Method to Detect Ricin Activity; Kathryn R. Pigg¹; Jakub Baudys¹; Dongxia Wang¹; Suzanne R. Kalb¹; John R. Barr¹; ¹Centers for Disease Control and Prevention, Atlanta, Georgia
- WP 355 Sensitive Detection of Active Ricin by MALDI-TOF Mass Spectrometry through an Improved RNA Substrate;

 Dongxia Wang¹; Jakub Baudys²; John R Barr²; Suzanne R Kalb²; ¹Centers of Disease Control and Prevention (CDC),

 Atlanta, GA; ²Centers for Disease Control and Prevention,

 Atlanta, Georgia 30341
- WP 356 Detection and Identification of Model Peroxide
 Explosives Using Paper Spray Ionization Combined
 With Tandem Mass Spectrometry; Madeleine Wood^{1,2};
 Luke Metzler²; Theodore Corcovilos³; Michael Van Stipdonk²;

 1 Forensic Science and Law Program, Duquesne University,
 Pittsburgh, PA; 2 Department of Chemistry and Biochemistry,
 Duquesne University, Pittsburgh, PA; 3 Department of
 Physics, Duquesne University, Pittsburgh, PA
- WP 357 Method Development for the Identification of Trichothecenes: Mass Spectral Library Matching and Determination of Unknown Mycotoxins; Maria C.

 Prieto Conaway¹; Mark Dreyer¹; Todd H. Corzett¹; Brian P.
 Mayer¹; Audrey P. Williams¹; 'Lawrence Livermore National Laboratory, Livermore, CA/94550
- WP 358 Detection and Quantitative Analysis of Ricin by Tryptic Digestion and PRM MS Method; <u>Jakub Baudys</u>¹; Dongxia Wang¹; John R. Barr¹; Suzanne R. Kalb¹; ¹Centers for Disease Control and Prevention, Atlanta, Georgia
- WP 359 Rapid Identification and Antibiotic Susceptibility
 Determination for Anthrax (Bacillus anthracis) using
 Lethal Factor Endopeptidase Activity Coupled with
 MALDI-MS; Jon Rees¹; Yulanda Williamson¹; Anne E
 Boyer¹; Maribel Gallegos-Candela¹; Renato Lins²; John R
 Barr¹; ¹CDC, Atlanta, GA; ²Batelle, Columbus, OH
- WP 360 High-Throughput Screening of Explosive Residues
 Using a Robust Thermal Extraction Ionization Source
 (TEIS); Pierre Negri¹; Neil Davenport²; Ashley Sage²; Peter
 Luke³; Carl Fletcher³; ¹SCIEX, Redwood City, CA; ²SCIEX,
 Warrington, United Kingdom; ³Mass Spec Analytical, Bristol,
 United Kingdom



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- WP 361 Lipid Profiling of Carotid Atherosclerotic Plaque with Mass Spectrometry Imaging; Mirjam Visscher¹; Astrid M. Moerman¹; Peter C. Burgers¹; Heleen M.M. Van Beusekom¹; Antonius F.W. Van der Steen¹; Theo M. Luider¹; Kim Van der Heiden¹; Gijs Van Soest¹; ¹Erasmus MC, Rotterdam, Netherlands
- WP 362 A Novel Strategy for Cancer Biomarker Discovery
 Powered by Lipids Profiling using Imaging MS together
 with UPLC-QTOF/QQQ Tandem MS; Lei Wang¹; Xu Ma¹;
 Chunyan Lan¹.²; Hainan Li³; Linbo Cai³; Xiaofei Jia⁴; Huiqin
 Zhong⁴; ¹National Center for Human Genetic Resources,
 National Research Institute for Health and Family Planning,
 Beijing, China; ²Peking Union Medical College Graduate
 School, Beijing, China; ³Guang Dong San Jiu Brain Hospital,
 Guangzhou, China; ⁴Waters Technologies (Shanghai)
 Co, Ltd, Shanghai, China
- WP 363 Integrating Ambient Ionization Mass Spectrometry with Machine Learning for Rapid Breast Cancer Diagnosis;

 Hsin-Hsiang Chung¹; Ying-Chen Huang¹; Bo-Rong Chen²;

 Ming-Yang Wang²; Cheng-Chih Hsu¹; ¹Department of Chemistry, National Taiwan University, Taipei, Taiwan;

 2Department of Surgery, National Taiwan University Hospital, Taipei, Taiwan
- WP 364 Discrimination of Human Renal Oncocytoma from Normal Kidney and Renal Cell Cancer Subtypes Using Ambient Ionization Mass Spectrometry Imaging;
 Jialing Zhang¹; Shirley Li¹; Wendong Yu²; Livia S Eberlin¹;

 ¹University of Texas at Austin, Austin, TX; ²Baylor College of Medicine, Houston, TX
- WP 365 **3D MALDI Imaging of Traumatic Brain Injury:Unveiling a Link to Parkinson's Disease**; Khalil Mallah¹; Jusal Quanico¹; Dennis Trede²; Firas Kobeissy³; Isabelle Fournier¹; Michel Salzet¹; ¹PRISM Inserm U1192 University of Lille, Villeneuve D'ascq Cedex, France; ²Bruker Daltonik GmbH, Bremen, Germany; ³epartment of Biochemistry and Molecular Genetics, Faculty of Medicine, American University of Beirut, Beirut, Lebanon
- WP 366 Predicting Lymph Node Metastasis in Endometrial Cancer by Multi-Modal Mass Spectrometry Imaging; Parul Mittal¹; Mark R Condina²; Matthew T Briggs³; Alice Ly⁴; Janina Oetjen⁴; Gurjeet Kaur Chatar Singh⁵; Manuela Klingler-Hoffmann³; Peter Hoffmann³; ¹Adelaide Proteomics Centre, The University of Adelaide, Adelaide, Australia; ²Future Industries Institute, Adelaide, Australia; ⁴Bruker Daltonik GmbH, Bremen, Germany; ⁵Institute for Research in Molecular Medicine, Universiti Sains Malaysia, Minden,, Malaysia
- WP 367 Unraveling Pathogenesis of Renal Amyloidosis with MALDI Imaging Mass Spectrometry and Shotgun Proteomics on paraffin Embedded Renal Biopsy Tissue Section; Yume Mukasa¹; Yuki Kuzuhara¹; Megumi Terada¹; Takashi Nirasawa²; Ryo Kajita²; Marion Rabant³; Jean-Paul Duong Van Huyen⁴; Hatsue Ishibashi-Ueda⁵; Nobuto Kakuda¹; Masaya Ikegawa¹; ¹Doshisha university, Kyotanabe City, Japan; ²Bruker Japan K. K., Yokohama, Japan; ³Necker-Enfants malads Hospital, Paris, France; ⁴Georges-Pambidou European Hospital, Anatomy-Pathology, Paris, France; ⁵National Cerebral and Cardiovascular Center Research Institute, Suita, Japan
- WP 368 Lipid Fingerprint Enables Identification of Human Inflammatory Bowel Disease Using Imaging Mass Spectrometry; Simona Salivo¹; Tom K. Abban¹; Lucia Martín-Saiz²; Albert Maimó-Barceló³; Juan Bestard-Escalas³; Daniel H. López³; Sam Khorrami³.⁴; Marcelo García³.⁴; Gwendolyn Barceló-Coblijn³; Matthew E. Openshaw¹; José A. Fernández²; ¹Shimadzu, Manchester, United Kingdom; ²Dep. of Physical Chemistry, Fac. of Science and

- Technology, University of the Basque Country (UPV/EHU), Barrio Sarriena, Spain; ³Institut d'Investigació Sanitària Illes Balears (IdISBa), Palma, Spain; ⁴Gastroenterology Unit, Hospital Universitari Son Espases, Palma, Spain
- WP 369 Mass Spectrometric In-Depth Proteome Analysis of the Kidneys from Rat Model of Diabetic Nephropathy; Yuki Kuzuhara¹; Yume Mukasa²; Takashi Nirasawa³; Ryo Kajita³; Hatsue Ishibashi-Ueda⁴; Nobuto Kakuda²; Masaya Ikegawa¹²; ¹Graduate School, Major of Medical Life Systems, Doshisha University, Kyotanabe City, Japan; ²Department of Medical Life Systems, Doshisha University, Kyotanabe City, Japan; ³Bruker Japan K.K., Yokohama, Japan; ⁴National Cerebral and Cardiovascular Center Research Institute, Suita, Japan
- WP 370 MALDI-MSI Investigation of Lipid Alterations in Developing Rat Cerebellum Following Hypoxic/Ischemic Insult; Dominique Figueroa¹; Maureen A. Kane²; ¹University of Maryland Balitmore, Baltimore, MD; ²University of Maryland, Baltimore, Baltimore, MD
- WP 371 Bisphenol S Exposure Induced the Proliferation of Human Breast Tumor by Disturbing Lipid Metabolism and Protein Profiling; Chao Zhao¹; Zongwei Cai*¹; ¹Hong Kong Baptist University, HK, China
- WP 372 Laser Desorption Ionization from Silicon Nanopost Arrays for Mass Spectrometry Imaging of Neutral Lipids in Bacterially Infected Human Skin Tissue; Jarod Fincher¹; Derek Jones²; Andrew Korte¹; Jacqueline Dyer¹; Paola Parlanti¹; Anastas Popratiloff¹; Christine Brantner¹; Nicholas Morris³; Russell Pirlo⁴; Victoria Shanmugam²; Akos Vertes¹; ¹The George Washington University, Washington, DC; ²The George Washington University, School of Medicine and Health Sciences, Washington, DC; ³UES, Inc., Dayton, OH; ⁴United States Naval Research Laboratory, Washington, DC
- WP 373 Reproducibility of MALDI Imaging Based Tissue Classifications - Results of a Multi-Center Study; Soeren-Oliver Deininger1; Rita Casadonte2; Petra Wandernoth²; Kristina Schwamborn³; Christine Bollwein³; Christian Marsching⁴; Katharina Kriegsmann⁵; Carsten Hopf⁴; Wilko Weichert³; Jörg Kriegsmann²; Peter Schirmacher⁶; Mark Kriegsmann⁶; Alice Ly¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Proteopath, Trier, Germany; 3Institute of Pathology, Technical University of Munich, Munich, Germany; 4Center for Biomedical Mass Spectrometry and Optical Spectroscopy (CeMOS), Mannheim University of Applied Sciences, Mannheim, Germany; 5Department of Hematology, Oncology and Rheumatology, University Hospital Heidelberg, Heidelberg, Germany; 6Institute of Pathology, University Hospital Heidelberg, Heidelberg, Germany
- WP 374 Metabolomic/Lipidomic DESI Imaging of Different Cell Cultures; Hadeer Mattar¹; Emrys A. Jones²; Emmanuelle Claude²; Clare mills¹; ¹Division of Infection, Immunity & Respiratory Medicine, Manchester Institute of Biotechnology. University of Manchester, Manchester, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom
- WP 375 Spatial Information of Metabolites Using Mass Spectrometry Imaging on Breast Needle Biopsy Using DEFFI-MS; Vincen Wu¹; Paolo Inglese²; Hui-Yu Ho²; Andreas Dannhorn³; Emine Kazanc²; Goncalo Correia²; James Mckenzie²; Stephanie Ling³; Evdoxia Karali⁴; Nikolaos Koundouros⁴; Hiromi Kudo²; Peter Kreuzaler⁵; Sami Shousha²; Ian Gilmore⁰; Mariia Yuneva⁵; Richard Goodwin³; Josephine Bunch⁰; George Poulogiannis⁴; Zoltan Takats²; ¹Imperial College London, London, United Kingdom; ¹Imperial College, London, United Kingdom; ³AstraZeneca, iMED, United Kingdom; ⁴Institute of Cancer Research, London, United Kingdom; ⁵National Physical Laboratory, London, United Kingdom



- WP 376 Mapping Molecular Interactions in the Clostridium difficile Infected Gastrointestinal Tract Using Multimodal Imaging Mass Spectrometry; Emma R.

 Guiberson^{1, 2}; Aaron G Wexler³; William J. Perry^{1, 2}; Eric P. Skaar³; Richard M. Caprioli^{1, 2, 4, 5, 6}; Jeffrey M. Spraggins^{1, 2, 4}; 'Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Department of Chemistry, Vanderbilt University, Nashville, TN; ³Department of Pathology, Microbiology and Immunology, Vanderbilt University School of Medicine, Nashville, TN; ⁴Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁵Department of Medicine, Vanderbilt University, Nashville, TN; Nashville, TN; Nashville, TN; Nashville, TN; Nashville, TN; Nashville, TN; Nashville, TN
- WP 377 Multiple Chemical and Enzymatic Approaches for Comprehensive N-Glycome Determinations of Prostate Cancer Tissues by MALDI-FTICR Imaging Mass Spectrometry; Connor A West¹; Fred David¹; Laura Spruill¹; Anand Mehta¹; Richard R Drake¹; ¹Medical University of South Carolina, Charleston, SC
- WP 378 Desorption Electrospray Ionization Mass Spectrometry Imaging of Brain Tissue from a Mouse Model of Smith-Lemli-Opitz Syndrome; Amy Li¹; Libin Xu¹; ¹University of Washington, Seattle, WA
- WP 379 A Novel Strategy for the Pathological Study of Alzheimer's Disease Brain with MALDI Imaging Mass Spectrometry with Shotgun Proteomics; Masaya Ikegawa¹; Nobuto Kakuda¹; Tomohiro Miyasaka¹; Takashi Nirasawa²; Ryo Kajita²; Shigeo Murayama³; Yasuo Ihara⁴; ¹Doshisha university, Kyotanabe City, Japan; ²Bruker Japan K.K., Yokohama, Japan; ³The Brain Bank for Aging Research, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Tokyo, Japan; ⁴Graduate School of Brain Science, Doshisha University, Kyotanabe City, Japan

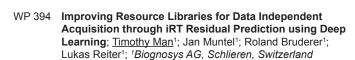
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- WP 380 A Ground Truth MS1 Data Set for Quantitative
 Evaluation of Precursor-Aware Proteomics Mass
 Spectrometry Data Processing Algorithms; Jessica
 Henning¹; Annika Tostengard¹; Robert Smith¹; 'University of Montana, Missoula, MT
- WP 381 EnvCNN: A Convolutional Neural Network Model for Evaluating Isotopomer Envelopes in Top-Down Mass Spectral Deconvolution; Abdul Rehman Basharat¹; Zhe Wang²; Si Wu²; Rachele Lubeckyj³; Liangliang Sun³; Xiaowen Liu¹.⁴; ¹Department of BioHealth Informatics, Indiana University-Purdue University Indianapolis, Indianapolis, Indiana; ²Department of Chemistry and Biochemistry, University of Oklahoma, Norman, Oklahoma; ³Department of Chemistry, Michigan State University, East Lansing, Michigan; ⁴Center for Computational Biology and Bioinformatics, Indiana University School of Medicine, Indianapolis, Indiana
- WP 382 Targeted Database Search Strategies for Ricin Detection: Searching Only for Ricin Peptides; Andy Lin¹; Deanna Plubell¹; Uri Keich²; William Stafford Noble¹; ¹University of Washington, Seattle, WA; ²University of Sydney, Sydney, Australia
- WP 383 MIND: A Double-Linear Model to Accurately Determine Monoisotopic Precursor Mass in High-Resolution Top-Down Proteomics; Frederik Lermyte¹; Piotr Dittwald²; Jürgen Claesen³; Geert Baggerman⁴; Frank Sobott⁵; Peter B. O'Connor¹; Kris Laukens⁴; Jef Hooyberghs⁶; Anna Gambin²; Dirk Valkenborg³; ¹University of Warwick, Coventry, United Kingdom; ²University of Warsaw, Warsaw, Poland; ³Hasselt University, Hasselt, Belgium; ⁴University Of Antwerp, Antwerp, Belgium; ⁵University of Leeds, Leeds,

- United Kingdom; ⁶Flemish Institute for Technological Research (VITO), Mol. Belgium
- WP 384 **pValid: Validation Beyond the Target-Decoy Approach for Peptide Identification in Shotgun Proteomics**; Wen-Jing Zhou¹; Hao Yang¹; Wen-Feng Zeng¹; Kun Zhang¹; <u>Hao Chi</u>¹; Si-Min He¹; ¹*Institute of Computing Technology, CAS, Beijing, China*
- WP 385 Bayes' Formula and Fisher Information for Automated Analysis of Mass Spectra; Alex Ulyanenkov¹; Alexander Mikhalychev²; Svetlana Vlasenko²; ¹Atomicus LLC, Seattle, WA; ²Atomicus OOO, Minsk, Belarus
- WP 386 MSstatsTMT: Statistical Detection of Differentially
 Abundant Proteins in Mass Spectrometry Experiments
 with Isobaric Labeling; Ting Huang¹; Meena Choi¹;
 Manuel Tzouros²; Nikhil Janak Pandya²; Balazs Banfai²;
 Tom Dunkley²; Olga Vitek¹; ¹Northeastern University,
 Boston, MA 02115; ²Roche Pharmaceutical Research and
 Early Development (pRED), Roche Innovation Center
 Munich, Germany
- WP 387 Identification of Alternative-Splicing Events Present in Proteins Using Mass Spectrometry and a Custom Sequence Database of Junction-Spanned Peptides;

 Bang-Jie Han¹; Pang-Hung Hsu¹; Wen-Shyong Tzou¹;

 National Taiwan Ocean University, Keelung, Taiwan
- WP 388 Tree Based Machine Learning Methods Improve Error Rates in Quality Control of Mass Spectrometry-Based Proteomics; Eralp Dogu¹; Shantam Gupta²; Roger Olivella³; Eduard Sabido³; Olga Vitek⁴; ¹Mugla University, Mugla, Turkey; ²Quantiphi Inc, Boston, Massachusetts; ³CRG, Barcelona, Spain; ⁴Northeastern University, Boston, MA
- WP 389 Deep Learning Methods Applied to the Analysis of Metabolomics Data; Shinji Kanazawa¹.².³; Yohei Yamada¹; Hiroyuki Yasuda¹; Akihiro Kunisawa¹; Toru Shiohama¹; Shigeki Kajihara¹; Norio Mukai¹; Masaki Kakisako⁴; Go Fujisawa⁴; Yuzuru Yamakage⁴; Junko lida¹.²; Eiichiro Fukusaki⁵; Fumio Matsuda³; ¹Shimadzu Corporation, Kyoto, Japan; ²Osaka University Shimadzu Analytical Innovation Research Laboratory, Osaka University, Osaka, Japan; ³Graduate School of Information Science and Technology, Osaka University, Osaka, Japan; ⁵Graduate School of Engineering, Osaka University, Osaka, Japan;
- WP 390 SPIX, a Newly Developed Free Software to Overcome Operator Subjectivity in MS and Characterize Unknown Chemical Reactions in Complex Mixtures; Edith Nicol¹; Yao Xu^{2, 3}; Zsuzsanna Varga¹; Stéphane Bouchonnet¹; Marc Lavielle^{2, 3}; ¹Laboratory of Molecular Chemistry, École Polytechnique, Palaiseau, France; ²National Institute for Research in Computer Science and Automation (Inria), Saclay, France; ³Center for Applied Mathematics, École polytechnique, Palaiseau, France
- WP 391 In vivo Proteome Dynamics from Tandem Mass Spectrometry; Ahmad Borzou¹; Rovshan Sadygov¹; ¹University of Texas, Galveston, TX
- WP 392 Diversity Indices Applied to Laser-Assisted Rapid Evaporative Ionisation MS (LA-REIMS) Microbial Profiles for Quality Control and Stratification for Classification Modelling; Alvaro Perdones-Montero¹; Simon Cameron¹; Attila Kiss²; Richard Schaffer²; Julia Balog²; Keith Richardson³; Steven D Pringle³; Zoltan Takats¹; ¹Imperial College London, London, United Kingdom; ²Waters Research Center Kft., Budapest, Hungary; ³Waters Corporation, Wilmslow, United Kingdom
- WP 393 The Titin Problem: Hitchhiking Siblings during Protein Inference; Kyle Lucke¹; Max Thibeau¹; Levi Zell¹; Julianus Pfeuffer²; Xiao Liang³; Oliver Serang¹; ¹University of Montana, Missoula, MT; ²Eberhard Karls University of Tübingen, Tübingen, Germany; ³Freie Universität Berlin, Berlin, Germany



- WP 395 Influence of Library Selection for Proteomics
 Experiments on Statistical Error Rate Estimation;
 Seth Just¹; Caleb Emmons¹; Jacob C Lippincott¹; Susan
 Ludwigsen¹; Susan T Weintraub²; Brian C Searle¹,³;
 ¹Proteome Software, Portland, OR; ²University of Texas
 Health Science Center at San Antonio, San Antonio, TX;
 ³Institute for Systems Biology, Seattle, WA
- WP 396 Updates on Philosopher: a complete toolkit for both conventional and open search-based shotgun proteomics data analysis; Felipe Da Veiga Leprevost¹; Avinash K Shanmugam¹; Dattatreya Mellacheruvu¹; Hui-Yin Chang¹; Dmitry M Avtonomov¹; Andy T. Kong¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- WP 397 Automating Component Detection of Small Molecules in Complex Mixtures using HRAM Q-TOF data; Simon Ashton¹; Kirsten Hobby¹; Alan Barnes¹; Neil Loftus¹;

 1 Shimadzu Corporation. Manchester. United Kingdom
- WP 398 Extending the Scope of Prosit: Accurate Fragment Ion Intensity and Retention Time Prediction for (Un) Modified (Non-)Tryptic Peptides; Tobias Schmidt¹; Michael Graber¹; Daniel P Zolg¹; Siegfried Gessulat¹; Patroklos Samaras¹; Johannes Zerweck²; Tobias Knaute²; Hans-Christian Ehrlich³; Stephan Aiche³; Bernard Delanghe⁴; Andreas Huhmer⁵; Karsten Schnatbaum²; Ulf Reimer²; Bernhard Kuster¹; Mathias Wilhelm¹; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; ³JPT Peptide Technologies GmbH, Berlin, Germany; ³SAP SE, Potsdam, Germany; ⁴Thermo Fisher Scientific, Bremen, Germany; ⁵Thermo Fisher Scientific, San Jose. CA
- WP 399 Reducing False Peptide-Spectrum Matches in Peptide Identification using Spectrum Clustering; Lei Wang¹; Sujun Li¹; Haixu Tang¹; *Indiana University Bloomington, Bloomington, IN
- WP 400 Computing Information Content of PTM Site Localization Assignments Using PTMProphet; <u>David D. Shteynberg</u>¹; Eric W. Deutsch¹; David S. Campbell¹; Michael R. Hoopmann¹; Ulrike Kusebauch¹; Zhi Sun¹; Anthony Whetton²; Robert L. Moritz¹; *Institute for Systems Biology, Seattle, Washington; *2University of Manchester, Manchester, United Kingdom
- WP 401 IsoSpec 2.0: a Hyperfast Fine Isotopic Envelope Calculator; Michał Startek¹; Mateusz K. Łącki²; Dirk Valkenborg³. 4.5; ¹University of Warsaw, Warsaw, Poland; ²University Medical Center Mainz, Mainz, Germany; ³Centre for Proteomics (University of Antwerp/VITO (Belgium)), Antwerp, Belgium; ⁴Flemish Institute for Technological Research (VITO), Mol, Belgium; ⁵Interuniversity Institute for Biostatistics ans Statistical Bioinformatics, Hasselt, Belgium
- WP 402 A Novel Data-Adaptive Robust Method for Quantifying Tissue Specificity Scores; Meng Wang¹; Lihua Jiang²; Hua Tang²; Michael Snyder²; **Istanford University, Stanford; **2Stanford University, Palo Alto, CA

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- WP 403 Revealing Concurrent Change of Heterogeneity and Subpopulations of Cancer Cells Using Single Cell Metabolomics; Renmeng Liu¹; Jiannong Li²; Ann Chen²; Zhibo Yang¹; ¹Department of Chemistry and Biochemistry, University of Oklahoma, Norman, Oklahoma; ²Department of Biostatistics and Bioinformatics, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida
- WP 404 Incorporating In-Source Fragments Improves Metabolite Identification Accuracy in Untargeted LC-MS and LC-MS/MS Datasets; Jacob C Lippincott¹; Phillip M Seitzer¹;

- Brian C Searle^{1,2}; ¹Proteome Software, Portland, OR; ²Institute for Systems Biology, Seattle, WA
- WP 405 Automated Protein Metabolite Structure Elucidation Using HPLC/ESI-Exact Mass-MSMS Data for Insulin and ANP; Marshall M. Siegel¹; Gary E Walker¹; Ronnie Crepeau¹; Serhiy Hnatyshyn²; Asoka Ranasinghe²; ¹MS Mass Spec Consultants, Fair Lawn, NJ; ²Bristol-Myers Squibb Co., Lawrenceville, NJ
- WP 406 Metabolic Profiling of Small Molecule Ion Mobility
 Assisted Data Independent Acquisition Data Using
 Skyline; Brian S Pratt¹; Johannes PC Vissers²; Ian D
 Wilson³; Nyasha C Munjoma²; Marine PM Letertre³;
 Micheal J MacCoss¹; Brendan X MacLean¹; ¹University of
 Washington, Seattle, WA; ²Waters Corporation, Wilmslow,
 United Kingdom; ³Section of Computational and Systems
 Medicine, Imperial College, London, United Kingdom
- WP 407 Exploratory Data Analysis and Interactive Visualization of FTICR-MS Data; Allison M. Thompson^{1, 2}; Lisa M. Bramer¹; Amanda M. White¹; Kelly G. Stratton¹; Daniel Claborne¹; Kirsten S. Hofmockel^{1, 2}; Lee Ann McCue^{1, 2};

 1 Pacific Northwest National Laboratory, Richland, WA;
 2 Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA
- WP 408 SIRIUS 4 Turning Tandem Mass Spectra into Metabolite Structure Information; Kai Dührkop¹; Markus Fleischauer¹; Marcus Ludwig¹; Martin A. Hoffmann¹; Juho Rousu²; Sebastian Böcker¹; ¹Friedrich-Schiller University, Jena, Germany; ²Aalto University, Espoo, Finland
- WP 409 A Novel Approach to Data-Driven Differential Network Analysis with Limited Sample Size In High-Throughput Metabolomics and Lipidomics Data; Gayatri R lyer¹; Janis Wigginton²; William Duren^{1, 2}; Marci Brandenburg^{1, 3}; George Michailidis^{2, 4}; Alla Karnovsky¹; **Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, Ann Arbor, MI; **Michigan Regional Comprehensive Metabolomics Resource Core, Ann Arbor, MI; **Taubman Health Sciences Library, University of Michigan Medical School, Ann Arbor, MI; **Department of Statistics, University of Florida, Gainsville, FL
- WP 410 Web Based Basic Mass Spectrometry Search Tool For Molecules To Search Public Data; Mingxun Wang¹; Alan K. Jarmusch¹; Ricardo R. da Silva¹; Robert Quinn²; Alexey Melnik¹; Julia M Gauglitz¹; Justin van der Hooft¹; Andrés Rodríguez¹; Louis Felix Nothias¹; Jeremy Carver¹; Jeramie Watrous¹; Mohit Jain¹; Rob Knight¹; Nuno Bandeira¹; Pieter C. Dorrestein¹; ¹UCSD, La Jolla, CA; ²Michigan State University, East Lansing
- WP 411 A Novel Tool for Evaluation of Data Preprocessing an Essential Step in Untargeted Metabolomics; Yasin El Abiead^{1, 2, 3}; Maximilian Milford¹; Gunda Koellensperger^{1, 2, 3}; ¹University of Vienna, Department of Analytical Chemistry, Vienna, Austria; ²Vienna Metabolomics Center (VIME), Vienna, Austria; ³Chemistry Meets Microbiology, Vienna, Austria
- WP 412 Evaluation of Freely Available Software Tools for Untargeted Quantification of 13C Isotopic Enrichment in Cellular Metabolome from HR-LCMS Data; Manohar Dange¹; Vivek Mishra¹; Murtaza Saiffudin Merchant¹; Damini Jaiswal¹; Bratati Mukherjee¹; Charulata B Prasannan¹; Pramod P Wangikar¹; ¹Indian Institute of Technology Bombay, Mumbai, India
- WP 413 Feature-Based Molecular Networking of Untargeted Mass Spectrometry Data: Bridging MS-DIAL, MZmine2, MetaboScape, OpenMS, and XC-MS, with the GNPS Web-Platform; Louis Felix Nothias¹; Daniel Petras¹; Mingxun Wang¹; Robin Schmid¹.²; Abinesh Sarvepalli¹; Zheng Zhang¹; Ricardo da Silva¹; Pieter Dorrestein¹; ¹University of California, San Diego, La Jolla, CA; ²University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany



- WP 414 Deuterater: An Analyte-Agnostic Refactoring of Kinetic Analysis Software for Deuterium-Labeled Metabolomics; Kyle J Cutler¹; Russell Denton¹; John C Price¹; ¹Brigham Young University, Provo, UT
- WP 415 Using Cloud Computing for Large Scale Data
 Processing in Clinical Metabolomics; Oliver Fiehn¹; Ying
 Zhang¹,²; Brian C DeFelice¹; Sili Fan¹; Diego Pedrosa¹;
 Sajjan S Mehta¹; Gert Wohlgemuth¹; ¹UC Davis West Coast
 Metabolomics Center, Davis, CA; ²Chemistry Department
 UC Davis, Davis, CA
- WP 416 Using Maximum Common Substructures to Interpret Hit Lists from Small-Molecule Tandem Hybrid Similarity Searches; Brian T. Cooper^{1, 2}; Arun S Moorthy²; Tytus D Mak²; Stephen E Stein²; ¹UNC Charlotte, Charlotte, NC; ²NIST, Gaithersburg, MD
- WP 417 MetaboQuest: Tool for Metabolite Identification;

 Mohammad R Nezami Ranjbar¹; Linge Yan¹; Yan Gao¹;

 Habtom W Ressom¹; ¹OmicsCraft LLC, Washington, District of Columbia
- WP 418 A High-Resolution Accurate-Mass GC Electron Ionization (EI) and Chemical Ionization (CI) mass Spectral Database of Chemical Standards; Biswapriya Biswavas Misra¹; Michael Olivier¹; ¹Wake Forest Baptist Medical Center, Winston-Salem, NC
- WP 419 The Power of MS/MSALL Acquisition for High-Throughput Metabolomics Studies; Mariateresa Maldini¹; Eva Duchoslav²; Cyrus Papan³; Khatereh Motamedchaboki⁴; ¹SCIEX, Milan, Italy; ²SCIEX, Concord, ON; ³SCIEX, Darmstadt, Germany; ⁴Sciex, Redwood City CA
- WP 420 Evaluations Factors for Intra- and Inter-Batches
 Variations in Targeted and Untargeted Metabolomics
 through SPC and QC-Dependent SC Strategies; Li
 Zhang¹.²; Peter Sajjakulnukit¹; Maureen Kachman²; Costas
 Lyssiotis¹; ¹University of Michigan Medical School, Cancer
 Center, Ann Arbor, Michigan; ²University of Michigan
 Medical School, BRCF Metabolomics Core, Ann Arbor,
 Michigan
- WP 421 MetGem Software for the Generation of Molecular Networks Based on the t-SNE Algorithm; Nicolas Elie¹; Florent Olivon¹; Gwendal Grelier¹; Fanny Roussi¹; Marc Litaudon¹; David Touboul¹; ¹CNRS-ICSN, Gif-Sur-Yvette, France
- WP 422 Characterizing Product Ions in a Reference Tandem
 Mass Spectral Library; Xiaoyu Yang¹; Pedatsur Neta¹;
 Yuri Mirokhin¹; Dmitrii Tchekhovskoi¹; Yuxue Liang¹; Alexey
 Mayorov¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD
- WP 423 Development of a Machine Learning Tool to Enhance Gas Chromatography-Mass Spectrometry-Based Metabolite Identification; Feng Qiu^{1, 2, 3, 4}; Zhentian Lei^{1, 2, 3, 5}; Lloyd W. Sumner^{1, 2, 3, 5}; ¹Department of Biochemistry, University of Missouri, Columbia, MO; ²Bond Life Sciences Center, University of Missouri, Columbia, MO; ³Interdisciplinary Plant Group, University of Missouri, Columbia, MO; ⁴International Flavors & Fragrances, Union Beach, NJ; ⁵Metabolomics Center, University of Missouri, Columbia, MO
- WP 424 Secondary Chemical Processes of Acylcarnitines Revealed by LC-MS/MS; Xinjian Yan¹; Sanford P. Markey¹; Yamil Simón-manso¹; Ramesh Marupaka¹; Qian Dong¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD
- WP 425 Contextualizing Metabolomics Data by Integrating Text Mining and Computational Chemistry; Magnus Palmblad; Leiden University, Leiden, Netherlands
- WP 426 Computational metabolomics to characterize metabolites in stable isotope-labeled organisms;

 Hiroshi Tsugawa¹; Ryo Nakabayashi¹; Tetsuya Mori¹;

 Yutaka Yamada¹; Mikiko Takahashi¹; Amit Rai²; Ryosuke Sugiyama¹; Hiroyuki Yamamoto³; Taiki Nakaya²; Mami Yamazaki²; Rik Kooke⁴; Johanna A. Bac-Molenaar⁴;

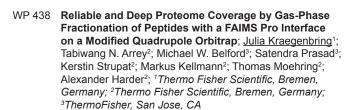
- Nihal Oztolan-Erol⁴; Joost J.B. Keurentjes⁴; Masanori Arita¹; Kazuki Saito¹; ¹RIKEN, Yokohama, Japan; ²Chiba University, Chuo-ku, Japan; ³Human Metabolome Technologies, Tsuruoka, Japan; ⁴Wageningen University & Research, Netherlands
- WP 427 Uniting Metabolomics Data Processing and Highly Confident Annotation across Six MS Instrumental Set Ups: MetaboScape 5.0; Nikolas Kessler¹; Wiebke Timm¹; Sascha Winter¹; Ulrike Schweiger-Hufnagel¹; Sven W. Meyer¹; Aiko Barsch¹; Heiko Neuweger¹; ¹Bruker Daltonics, Bremen, Germany
- WP 428 Retention Time Prediction of Dansyl Labeled Tripeptides Using Machine Learning Methods for Dansylation LC-MS Metabolomics; Hao Li¹; Liang Li²; ¹University of Alberta, Edmonton; ²University of Alberta, Edmonton, AB
- WP 429 Metabolite Classification into Major Chemical Classes using Supervised Machine Learning; Elizabeth H.

 Mahood; Cornell University, Ithaca, NY
- WP 430 A Scalable Approach to Curation of Public MS2 Spectra for Co-Analysis Using Untargeted Mass Spectrometry;

 Alan K. Jarmusch^{1, 2}; Mingxun Wang^{1, 2}; Madeleine Ernst^{1, 2}; Ricardo R. da Silva^{1, 2}; Pieter C. Dorrestein^{1, 2}; ¹Skaggs School of Pharmacy & Pharmaceutical Sciences, University of California San Diego, La Jolla, CA; ²Collaborative Mass Spectrometry Innovation Center, University of California San Diego, La Jolla, CA
- WP 431 MZmine 3 a Comprehensive Mass Spectrometry
 Data Processing Framework for Metabolomics; Tomáš
 Pluskal¹; Robin Schmid²; Ansgar Korf²; Timothy R Fallon¹;
 Aleksandr Smirnov³; Matej Orešič⁴; Xiuxia Du³; Jing-ke
 Weng¹; ¹Whitehead Institute for Biomedical Research,
 Cambridge, MA; ²University of Muenster, Institute of
 Inorganic and Analytical Chemistry, Muenster, Germany;
 ³The University of North Carolina at Charlotte, Charlotte,
 NC; ⁴Örebro University, Örebro, Sweden

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- WP 432 Improving Resolution of Frequency-Scanning ESI Ion Trap MS in Rough Vacuum using Periodic DC Focusing and Segment Quad Interface; Jung-Lee Lin¹; Hsi-Chang Shih¹; Chung-Hsuan Chen¹; 'The Genomics Research Center Academia Sinica, Taipei, Taiwan
- WP 433 Software for Automated Laser Ablation and Capture from Tissue Sections; Fabrizio Donnarumma¹; Touradj Solouki²; Kermit K Murray¹; ¹Louisiana State University, Baton Rouge, LA; ²Baylor University, Waco, TX
- WP 434 Characterization of Quadrupol Mass Filters Regarding Elevated Entrance Ion Currents; Markus Langner¹; Marco Thinius¹; Chris Heintz¹; Yessica Brachthaeuser²; Hendrik Kersten¹; Thorsten Benter¹; *** **JBergische Universität Wuppertal, Wuppertal, Germany; **2Carl Zeiss SMT, Oberkochen, Germany**
- WP 435 Time-of-Flight Compensated Ion Transmission: Theory, Simulation, and Application in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry; Qinghao Wu¹; Jared B. Shaw²; Ljiljana Pasa-Tolic²; ¹IonX Tech, LLC, Richland. WA: ²PNNL. Richland. WA
- WP 436 Performance Evaluation of a Modified Quadropole Orbitrap Mass Spectrometer; Tabiwang N. Arrey¹; Rosa Jersie-Christensen Rakownikow¹; Julia Kraegenbring¹; Kerstin Strupat¹; Markus Kellmann¹; Catharina Crone¹; Thomas Moehring¹; Alexander Harder¹; ¹Thermo Fisher Scientific, Bremen, Germany
- WP 437 Determining the Nature of MS Contamination with Various Sample Matrices; Leigh Bedford¹; Yang Kang¹; Bradley B. Schneider¹; Thomas R. Covey¹; *SCIEX, Concord, ON



WP 439 Development of Vacuum Measurement and Control System for Quadrupole Mass Spectrometer; <u>Li Kai</u>¹; li ming¹; ¹NCS Testing technology Co.,Ltd, Beijing, China

WP 440 Development of Universal and High Sensitivity Ion Mobility Spectrometer with APCI Ion Source for HPLC (LC-APCI-IMS); Yoshinori Arita¹; Akiko Imazu¹; Motohide Yasuno¹; Hiroshi Tanaka¹; Toshiya Habu¹; Yoshihito Yuasa¹; Kiyoshi Oqawa¹; ¹Shimadzu Corporation, Kyoto, Japan

WP 441 DRy Ion Localization and Locomotion (DRILL) MS
Interface for Sensitivity Enhancement via Droplet Size
Based Inertial Separation; Jung Lee¹; Peter Kottke¹;
Crystal L Pace²; David C Muddiman²; Alex Jonke³; Matthew
P. Torres³; Andrei Fedorov¹; ¹Georgia Institute of Technology,
Atlanta, GA; ²North Carolina State University, Raleigh,
NC; ³School of Biological Sciences, Georgia Institute of
Technology, Atlanta, GA

WP 442 Ion Manipulation Using Stacked PCB-Based Electrode Device (SPED); Yi-teng Hsiao¹; Szu-Wei Chou¹; Yi-Kun Lee¹; Pin-Duo Lee¹; Shih-Chieh Yang¹; Yao-Hsin Tseng¹; Chun-Yen Cheng¹; ¹AcroMass Technologies, Inc., Hsinchu, Taiwan

WP 443 Comparison of UPLC and RapidFire MS/MS Methods for Content Uniformity Analysis in Tablet-Splitting for a Narrow Therapeutic Index Drug Warfarin; Jiang Wang¹; Haiou Qu²; Robert L Hunt²; Leanna Hengst²; Patrick J. Faustino²; Jinhui Zhang²; ¹Food and Drug Administration - Center for Drug Evaluation and Research, Silver Spring, Md; ²FDA, Silver Spring, MD

WP 444 Impact of Dwell Time and Ion Flux on Multiple Reaction Ion Monitoring (MRM) Measurement Precision; Behrooz Zekavat¹; Charles Nichols¹; Anabel Fandino¹; Agilent Technologies, Santa Clara, CA

WP 445 Resolution Improvement through Modulation of Collective Ion Motion and Ejection in Quadrupole Ion Trap Mass Spectrometry for Intact Protein; Yi-teng Hsiao¹; Szu-Wei Chou¹; Shih-Chieh Yang¹; Pin-Duo Lee¹; Yi-Kun Lee¹; Yao-Hsin Tseng¹; Chun-Yen Cheng¹; ¹AcroMass Technologies, Inc., Hsinchu, Taiwan

WP 446 A Novel Mass Spectrometry-Based Analytical System for Single-Cell Proteomics and Metabolomics in Mammalian Cells; Yoshihiro Izumi¹; Kousuke Hata¹; Kohta Nakatani¹; Takeshi Hara¹; Shohei Yamamura²; Masaki Matsumoto¹; Takeshi Bamba¹; ¹Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan; ²Health Research Institute, National Institute of Advanced Industrial Science and Technology, Kagawa, Japan

WP 447 Transfer of Plasma-Generated Ions into a Fourier Transform Quadrupole Ion Trap (FT-QIT) with Running RF Trapping Field; Yessica Brachthäuser¹; Chris Heintz²; Alexander Laue¹; Michel Aliman¹; Hin Yiu Chung¹; Thorsten Benter²; ¹Zeiss SMT GmbH, Oberkochen, Germany; ²University of Wuppertal, Wuppertal, Germany

WP 448 Automated Tuning of an Electromagnetostatic Cell for Electron Capture Dissociation with Q-ToF Mass Spectrometers; Blake A. Hakkila¹; Joseph C. Meeuwsen¹,²; Yury V. Vasil'ev¹,²; Joseph S. Beckman¹,²; Valery G. Voinov¹,²; ¹e-MSion, Inc., Corvallis, OR; ²Oregon State University, Corvallis, OR

WP 449 Rectilinear Quadrupole Ion Guides: Transmission as a Function of Mass, RF Amplitude and RF Frequency; Kevin Kuchta¹; Luke J. Metzler²; Michael J. Van Stipdonk²; Randall E Pedder¹; ¹Ardara Technologies, Ardara, PA;

²Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA

WP 450 Developing a Multi-Pass Overtone Mobility
Spectrometry "Ping Pong" Insert to Improve the Drift
Resolution of the Waters HDMS (G1); Kyle Buckley¹; Marc
Legris¹; Arthur Laganowsky²; David H. Russell²; David E.
Clemmer¹; ¹Indiana University, Bloomington, IN; ²Texas A&M
University, College Station, TX

WP 451 Characterization of Ion Funnels: Transmission
Characteristics as a Function of Mass, RF Voltage
and RF Frequency; <u>Luke J. Metzler</u>¹; Kevin Kuchta²;
Michael J. Van Stipdonk¹; Randall E Pedder²; ¹Department
of Chemistry and Biochemistry, Duquesne University,
Pittsburgh, PA; ²Ardara Technologies L.P., Ardara, PA

WP 452 Modifying the Ion Optics and Scan Sequences on a Tribrid MS to Improve Sensitivity, Duty Cycle, and Overall Instrument Ease-of-Use; Graeme McAlister¹; Michael Goodwin¹; Lee Earley¹; Raman Mathur¹; Oliver Lange²; Romain Huguet¹; Vlad Zabrouskov¹; Mike Senko¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bremen, Germany

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WP 453 A Microchannel Thermalization Inlet Design to Eliminate Impact-Induced Molecular Fragmentation in Closed-Source Mass Spectrometers; Brandon Turner¹; Anupriya Anupriya¹; Sandra Osburn-Staker¹; Abraham De la Cruz¹; Eric T. Sevy¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT

WP 454 Concurrent Dual Polarity Ion Mobility (IM) Separations using Traveling Wave-based Structures for Lossless Ion Manipulations (SLIM); Isaac Kwame Attah¹; Yehia M. Ibrahim¹; Sandilya V.B. Garimella¹; Gabe Nagy¹; Randolph V. Norheim¹; Colby E. Schimelfenig¹; Richard D. Smith¹; ¹Pacific Northwest National Laboratory, Richland, WA

WP 455 **Ion Mobility Measurement using a Miniature Dual-Trap Mass Spectrometer**; <u>Jingjin Fan</u>¹; Xinwei Liu¹; Xiaoyu
Zhou¹; Zheng Ouyang¹; ¹*Tsinghua University, Beijing, China*

WP 456 Combining DIUTHAME and Stigmatic-Type Mass Microscope toward Cellular Scale Imaging Mass Spectrometry; Tsuyoshi Hirao¹.²; Yasuhide Naito¹; ¹GPI, Hamamatsu, Japan; ²Hamamatsu Photonics K.K., Hamamatsu, Japan

WP 457 High Sensitivity and Resolution IMS Separations at 100% Ion Utilization Efficiency; Sandilya Garimella¹; Gabe Nagy¹; Yehia M Ibrahim¹; Isaac K. Attah¹; Aneesh Prabhakaran¹; Richard D. Smith¹; **Pacific Northwest National Laboratory, Richland, WA

WP 458 Bridging the Gap Between Gas- and Condensed-Phase Using Dual-Polarity Ion Soft Landing; Pei Su¹; Hang Hu¹; Jonas Warneke¹; Mikhail Belov²; Gordon Anderson³; Julia Laskin¹; ¹Purdue University, West Lafayette, IN; ²Spectroglyph, LLC, Kennewick, WA; ³GAA Custom Engineering, LLC, Benton City, WA

WP 459 Determination of Drugs of Abuse in Human Hair by On-Line Supercritical Fluid Extraction – Supercritical Fluid Chromatography - Mass Spectrometry; Alison P Wicker¹; Blair K Berger¹; Tairo Ogura²; Kenichiro Tanaka²; Masayuki Nishimura³; Vivian chen³; William Hedgepeth³; Kevin A. Schug¹; ¹University of Texas at Arlington, Arlington, TX; ²Shimadzu Corporation, Nakagyo-ku, Japan; ³Shimadzu Scientific Instruments, Inc, Innovation Center, Columbia, MD

WP 460 Implementation of an Ambient-Fourier Transform-Drift
Tube on an Ultra High Mass Range Orbitrap™ Mass
Spectrometer for Analysis of Protein Complexes;
Sarah Sipe¹; James Sanders¹; Tobias Reinecke²; Brian H.
Clowers²; Jennifer S Brodbelt¹; ¹Department of Chemistry,
University of Texas at Austin, Austin, TX; ²Department of
Chemistry, Washington State University, Pullman, WA



- WP 461 Evaluation of a Novel PTR-TOFMS Setup Capable of Extremely Rapid Reagent Ion Switching; Alfons

 Jordan¹; Christian Lindinger¹; Stefan Feil¹; Gernot Hanel¹;
 Lukas Märk¹; Philipp Sulzer¹; ¹IONICON Analytik GmbH.,
 Innsbruck, Austria
- WP 462 Experimental Design of a Rotor-Induced Collision
 Cell (RICC) to Study Molecular Fragmentation During
 Hypervelocity Impacts Prior to Mass Analysis; Abraham
 L De la Cruz Hernandez¹; Friso Van Amerom²; Anupriya
 Anupriya³; Sandra Osburn-Staker⁴; Brandon Turner¹; Eric T.
 Sevy¹; Daniel E. Austin¹; ¹Brigham Young University, Provo,
 UT; ²Mini Mass Consulting, St. Petersberg, Florida; ³Intel,
 Portland, Oregon; ⁴University of Utah, Salt Lake City, UT
- WP 463 Pulse Width Modulation Control of Electron Beam Intensity in Electron Capture Dissociation using Precursor Charge State Information; Anjali Chelur¹; Suya Liu¹; Calin Bradau¹; Pavel Ryumin¹; Thomas J Binko¹; Nick Albeanu¹; Takashi Baba¹; 'SCIEX, Concord, ON
- WP 464 High Resolution Acceptance Phase Plane Analysis of the Rectangular and Sinusoidally Driven Linear RF Quadrupole; Adam P. Huntley¹; Gregory F. Brabeck²; Peter T. A. Reilly¹; ¹Washington State University, Pullman, WA; ²Excellims Corporation, Acton, Massachusetts
- WP 465 SLIMion: An Automated Framework for Performing Multi-Dimensional Parameter Optimizations of Structures for Lossless Ion Manipulations (SLIM) Using SIMION; Ron Danehy!; Ahmed M Hamid¹; Liulin Deng¹; John Daniel Debord¹; ¹MOBILion Systems Inc., Exton. PA
- WP 466 A Novel Instrument Platform for the Investigation of Particle Formation from the Gas Phase; <u>Tina Kasper</u>¹; Martin Hoener¹; Dimitris Papanastasiou²; Alexander Lekkas²; Diamantis Kounadis²; John Orfanopoulos²;

 1 University of Duisburg, Duisburg, Germany; 2 Fasmatech, Athens, Greece
- WP 467 Covalent Modification via Ion/Ion Reactions with Ion Mobility/Mass Spectrometry Structural Analyses;

 Veronica V Carvalho¹; Ian K. Webb¹; IUPUI Department of Chemistry & Chemical Biology, Indianapolis, IN
- WP 468 Development of Colinear Resonance Ionisation Spectroscopy (CRIS) for Sub-ppt quasi-IRMS Based Assays Including Carbon Dating; Giles Edwards^{1, 2}; Ben Cooper¹; Sultan Alsufyani¹; Christopher Ricketts¹; Holly Perrett¹; Cory Binnersley¹; Kieran Flanagan^{1, 2}; ¹The University of Manchester, School of Physics and Astronomy, Manchester, United Kingdom; ²The Photon Science Institute, The University of Manchester, Manchester, United Kingdom
- WP 469 Extended Path Length Ion Mobility with Structures for Lossless Ion Manipulations (SLIM) as an Ultra-Sensitive Pressure Gauge; Gregory Webster¹; Ahmed Mohamed Hamid¹; Daniel DeBord¹; Liulin Deng¹; Kelly Wormwood¹; Anisha Yadav¹; Gordon Anderson²; ¹MOBILion Systems Inc., Exton, PA; ²GAA Custom Engineering, LLC, Benton City, WA
- WP 470 Development of a [CID-TIMS]x[CID-TIMS]-q-CID-TOF HRMS platform for Discovery and Targeted o-mics Studies; Mark E. Ridgeway¹; Melvin A. Park²; Francisco Fernandez Lima³; ¹Bruker Daltonics Inc., Billerica, MA; ¹Bruker Daltonics Inc., Billerica, MA 01821; ³Florida International University, Miami, FL
- WP 471 Phasing two-dimensional (2D) Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS) in both dimensions; Ulviya Abdulkarimova¹; Marc Haegelin²; Fabrice Bray²; Anne Jeannin-Girardon¹; Pierre Collet¹; Christian Rolando²; ¹Université de Strasbourg, Strasbourg, France; ²Université de Lille, Villeneuve d'Ascq, France
- WP 472 Neoteric Approaches to MS Instrumentation Facilitated by Simulation; <u>Jerome Moore</u>; Robot Nose Corporation, Lemont, IL

- WP 473 Ruthenium Catalyzed 2e-/2H+ PCET Characterizing the Catalyst-Substrate Interaction with High-Resolution Mass Spectrometry and Gas-Phase Vibrational Spectroscopy; Fabian S Menges¹; Evan H Perez¹; Mauricio Cattaneo²; James Mayer¹; Mark Johnson¹; ¹Yale University, New Haven, CT; ²Universidad Nacional de Tucumán, Tucumán, Argentina
- WP 474 Improved Integration of a Separation Column to an Ion Source for Liquid Chromatography Mass Spectrometry;

 Michael Fogwill¹; Angela Doneanu¹; Stephen Hattan¹;

 Jason Hill¹; Wade P Leveille¹; Thomas McDonald¹; Joseph Michienzi¹; 'Waters Corporation, Milford, MA
- WP 475 Nano-Scale HPLC System for Isocratic and Gradient Ultra-Nano HPLC Separations; Stan Stearns¹; Jennifer Copeland¹; Huamin Cai¹; Martin Brisbin¹; Alex Plistil¹; Hal Barnett¹; ¹VICI Valco Instrument, Houston, TX
- WP 476 Advanced analytics for regulatory science: Application of an innovative robotic sample separation system coupled with tandem mass spectrometry; <u>Jinhui Zhang</u>¹; Patrick J. Faustino¹; ¹FDA, Silver Spring, MD
- WP 477 Growing MS adoption: A "Self-Driving" Mass Spectrometer Designed for Non-MS Experts; Maggie A.

 Ostrowski¹; F. Robert Ley¹; Kyle Covert¹; Kai Zhang¹; Susan Shen¹; Shane E. Tichy¹; Agilent Technologies, Inc., Santa Clara, CA
- WP 478 Automated and Simultaneous Identification and Quantification in Extractables and Leachables
 Analysis; Andrew Jones¹; Tommy Saunders¹; Ashley
 Baeten²; Yongdong Wang³; ¹Activated Research Company,
 Eden Prairie, MN; ²Abbott, St. Paul, Minnesota; ³Cerno
 Bioscience, Norwalk, CT

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- WP 479 Computational Chemistry and Ion Mobility Mass Spectrometry at High Resolving Power Suggest Prototropism of Cyclic Lipopeptides; Andréa Mccann¹; Christopher Kune¹; Johann Far¹; Philippe Massonnet¹.²; Philippe Jacques²; Marc Ongena³; Loïc Quinton¹; Edwin De Pauw¹; ¹University of Liege, MS Lab GIGA, MolSys Research Unit, Liege, Belgium; ²Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands; ³Terra teaching and research center, Gembloux Agro-Bio Tech, University of Liege, Gembloux, Belgium
- WP 480 Use of DESI with IMS Enhancement in Study of Transferred Material on Paper; Liepin Huang¹; Carrie L Hogue²; Gilbert Castillo²; ¹Corning Inc., Horseheads, NY; ²Corning Inc., Painted Post, 14870
- WP 481 Collision Induced Unfolding Experiments to Decipher the Structural Regions of a Hybrid Monoclonal Antibody.; Thomas Botzanowski¹; Oscar Hernandez-Alba¹; Olivier Colas²; Elsa Wagner-Rousset²; Alain Beck²; Sarah Cianferani¹; ¹Laboratoire de Spectrométrie de Masse BioOrganique, Université de Strasbourg, CNRS, IPHC UMR 7178, Strasbourg, France; ²IRPF, Centre d'Immunologie Pierre-Fabre (CIPF), Saint-Julien-en-Genevois, France
- WP 482 New High Resolution Mass Spectrometry Ion Mobility Applications in the Identification of Challenging Environmental Metabolites; Yelena A. Adelfinskaya¹; David G McCaskill¹; Jesse L Balcer¹; Nick N Wang¹; Jeffery Gilbert¹; Michael W. Madary¹; Pete L. Johnson¹; Suresh Annangudi Palani¹; Scott A. Greenwalt¹; 'Corteva Agriscience, Indianapolis, IN
- WP 483 Characterisation of Intact Hemoglobin Variants Utilising a Cyclic Ion Mobility-Enabled Quadrupole Time-of-Flight (Q-cIM-oaToF) Mass Spectrometer; Ahmad Alkawi¹; James Scrivens¹; Gillian Taylor¹; Safwan Akram¹; Martin Palmer²; Jakub Ujma²; Kevin Giles²; Jonathan P Williams²; Matthew Edgeworth³; ¹Teesside University, Middlesbrough,



- United Kingdom; ²Waters Corportaion, Cheshire, United Kingdom; ³MedImmune, Granta Park, United Kingdom
- WP 484 Copper Complexation Strategies for Differentiating Amino Acid Enantiomers by Ion Mobility; Emanuel Zlibut¹; Jody C. May¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN
- WP 485 Chirality-Regulated Human Serum Albumin-Neuropeptide Interactions Revealed by Ion Mobility-Mass Spectrometry; Jiabao Guo¹; Gongyu Li²; Lingjun Li¹.²; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²School of Pharmacy, University of Wisconsin-Madison, Madison, WI
- WP 486 Structural Analysis of Phosphopeptide Conformers using ECD, TWIMS and Molecular Modelling; Anna L.

 Simmonds¹; Andrea F Lopez-Clavijo²; Peter J Winn¹; John K Heath¹; David H. Russell³; Iain B. Styles¹; Helen J Cooper¹;
 ¹University of Birmingham, Birmingham, United Kingdom;
 ²Babraham Institute, Cambridge, United Kingdom; ³Texas A&M University, College Station, TX
- WP 487 Analysis of Heteroatomic Species in Weathered Crude
 Oil using Ion Mobility Time-of-Flight ESI-MS; Nolan
 Snyder¹; Feiyue Wang¹; Jake Ritchie¹; Diana Saltymakova¹;
 Katarzyna Polcwiartek¹; Durell S. Desmond¹; Casey Hubert²;
 Gary A. Stern¹; Alastair F. Smith²; ¹University of Manitoba,
 Winnipeg, MB; ²University of Calgary, Calgary, AB
- WP 488 Analysis of Gold-Molybdenum Complexes by Nano-Electrospray Ionization-Ion Mobility-Mass spectrometry; Hannah J Harbin¹; Kyle L Wilhelm¹; Dhirgam Humaidy²; Raul Villacob¹; Alice E Bruce²; Mitchell R. M. Bruce²; Touradj Solouki¹; ¹Baylor University, Waco, TX; ²The University of Maine, Orono, ME
- WP 489 Improvement in Quantitative Analysis of Vitamin
 D Metabolites in Blood using Click Derivatization
 Reagents Combined with LC-TimsTOF; Debin Wan¹;
 Xuejun Peng²; Jun yang¹; Bogdan Barnych¹; Nalin Singh¹;
 Bruce D Hammock¹; ¹UC Davis, Davis, CA; ²Bruker
 Daltonics Inc., San Jose, CA
- WP 490 Azobenzene Photoswitches: Observing Molecules Switching Using Ion Mobility Mass Spectrometry; Julien De Winter¹; Agostino Galanti²; Quentin Duez¹; Jérôme Cornil¹; Paolo Samori²; Pascal Gerbaux¹; ¹University of Mons, Mons, Belgium; ²University of Strasbourg, Strasbourg, France
- WP 491 Enhanced Software for the Classification of Charge Multiplexed Collision Induced Unfolding Data; Daniel A. Polasky¹; Sugyan M. Dixit¹; Kathryn D. Kulju¹; Daniel D. Vallejo¹; Ruwan T. Kurulugama²; John C. Fjeldsted²; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Agilent Technologies, Santa Clara, CA
- WP 492 The Benefit of Peptide CCS Value Prediction and Experimental Determination; Sebastian Wehner¹; Favio Salinas²; Stuart Pengelley¹; Heiko Neuweger¹; Heiner Koch¹; Anjali Alving³; Na Parra³; Greig Michael³; Juergen Cox²; Detlev Suckau¹; ¹Bruker Daltonics, Bremen, Germany; ²Max Planck Institute of Biochemistry, Martinsried, Germany; ³Bruker Daltonics Inc., Billerica, MA
- WP 493 Characterization of Derivatized Carbohydrates
 Using High Resolution Cyclic IMS and Tandem-IMS
 Techniques; Kristin McKenna¹; Andrew Baker²; Martin
 Palmer³; Dale Cooper-Shepherd³; Facundo M. Fernandez¹;

 'Georgia Institute of Technology, Atlanta, GA; 'Waters
 Corporation, Pleasanton, CA; 'Waters Corporation,
 Wilmslow, United Kingdom
- WP 494 **Differentiating Commercial Lubricant Oils using Ion- Mobility Enabled Mass Spectrometry**; Jeff Goshawk¹;
 Eleanor Riches¹; Caitlyn Da Costa¹; <u>Gordon Jones</u>¹; ¹Waters
 Corporation, Wilmslow, United Kingdom
- WP 495 Development of a Collisional Cross Section Library using Trapped Ion Mobility Spectrometry (TIMS) and Its Use in Plant Metabolomics; Mark J Schroeder^{1, 2, 3}; Sven

- W. Meyer⁴; Aiko Barsch⁴; Lloyd W. Sumner^{1,2,3}; ¹Department of Biochemistry, University of Missouri, Columbia, MO; ²Bond Life Sciences Center, University of Missouri, Columbia, MO; ³Interdisciplinary Plant Group, University of Missouri, Columbia, MO; ⁴Bruker Daltonik GmbH, Bremen, Germany
- WP 496 De Novo Peptide Sequencing Using TIMS- MS/MS for Amphibian Skin Peptides; Benjamin Bokor¹; Jacob Porter¹; Mario E. Gomez Hernandez¹; Alessandro Catenazzi¹; Francisco A. Fernandez-Lima¹; ¹Florida International University, Miami, FL
- WP 497 Post-ionization separation of isomeric cannabinoids by means of Trapped Ion Mobility-Mass Spectrometry; Arne Behrens¹; Sabrina Kröger¹; Uwe Karst¹; ¹University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany
- WP 498 Atmospheric Pressure Ion-Mobility MS with a Low Entrance Potential; William P. McMahon¹; Joseph E. Lesniewski¹; Kaveh Jorabchi¹; 'Georgetown University, Washington, DC
- WP 499 Trapped Ion Mobility Spectrometry and Surface-Induced Dissociation (TIMS-SID) on a 15 T FT-ICR for Structural Characterization of Native Protein Complexes; Erin Panczyk^{1, 2}; Arpad Somogyi^{2, 3}; Mark E. Ridgeway⁴; Melvin A. Park⁴; Vicki H. Wysocki^{1, 2, 3}; ¹Department of Chemistry and Biochemistry, The Ohio State University, Columbus, OH; ²Resource for Native MS Guided Structural Biology, The Ohio State University, Columbus, OH; ³Campus Chemical Instrument Center, Mass Spectrometry and Proteomics Facility, The Ohio State University, Columbus, OH; ⁴Bruker Daltonics Inc., Billerica, MA
- WP 500 Exploring the Conformational Space of Growth Hormone-Releasing Hormone Analogs using Dopant Assisted Trapped Ion Mobility Spectrometry; <u>Javier Moreno</u>1; Kevin Jeanne Dit Fouque1; Francisco Fernandez-Lima1; 1Florida International University, Miami, FL

LC/MS: CHROMATOGRAPHY AND SOFTWARE I 501-517

- WP 501 Direct LC/MS Analysis Method of Surfactants Contained in Antibody Drugs Using a Polymer-Based Reversed Phase Column; Leah Sullivan¹; Junji Sasuga¹; Hiroki Takenaka¹; Eiji Kagawa¹; Ron Benson¹; ¹Shodex, Showa Denko America, Inc., New York, NY
- WP 502 Mutant KRas Protein and Tryptic Peptides Separation and Characterization Using Enhanced Fluidity Liquid Chromatography Coupled with Tandem Mass Spectrometry; Juan Bian; The Ohio State University, Columbus, OH
- WP 503 Ultra-fast Capillary-Flow LC-MS Profiling of Complex Biological Matrices: Applicable to Large Sample Cohorts; Oleksandr Boychenko¹; Jenny Ho²; Christopher Pynn¹; ¹Thermo Fisher Scientific, Germering, Germany; ²Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- WP 504 The Characterization of Column Heating Effect in Nano-Flow Liquid Chromatography Mass Spectrometry (nanoLC-MS)-Based Proteomics; Linhui Zhai¹; Bolin Li¹; Hao Hu¹; Fang Guo²; Ping Liu¹; Minjia Tan¹; ¹Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China; ²Shanghai Easymass Co., Ltd., Shanghai, China
- WP 505 Characterization of the Merck Sample Collection by UPLC-MS And Evaluation of the Data Using Virscidian; Wilfredo Pinto; Merck, Rahway, NJ
- WP 506
 An Updated Perspective on Deconvoluting Chimeric MS/MS Spectra by LC and Precursor Isolation and Their Subsequent Assignment by CharmeRT; Manuel I. Villalobos Solis^{1, 2}; Richard J. Giannone¹; Robert L. Hettich¹; Paul E. Abraham¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN; ²University of Tennessee, Knoxville, TN



- WP 507 Rapid Separation of Reduced Antibody Chains by Size Exclusion Chromatography Coupled to Electrospray Mass Spectrometry; John H. Robinson¹; John O. Hui¹; Iain D. G. Campuzano¹; ¹Amgen Inc., Thousand Oaks, CA
- WP 508 Instrument Performance Evaluation and Tracking
 Using a Quality Control Standard for Proteomics
 Laboratory; Shenheng Guan^{1,2}; Jonathan Krieger²; Leanne
 Wybenga-Groot²; Bin Ma³; Michael F. Moran^{2,4}; ¹University
 of Waterloo, Waterloo; ²SPARC BioCentre, Hospital for
 Sick Children, Toronto, Ontario; ³University of Waterloo,
 Waterloo, ON; ⁴University of Toronto, Toronto, ON
- WP 509 Characterization of the Activity and Kinetics of Guanine Deaminase; <u>Justin Godinho</u>¹; Ben Libert¹; Barry Boyes¹;

 **Advanced Materials Technology, Wilmington, DE
- WP 510 A new LC-MS Approach for Synthetic Peptide Characterization and Impurity Profiling; Asish
 Chakraborty¹; Nilini Nilini Ranbaduge¹; Ying Qing Yu¹;

 Waters Corporation, Milford, MA
- WP 511 Becoming Street-Smart in the CDMO Space: Utilization of Multiple Technologies to Harmonize Release and Characterization Assays for non-mAb Proteins; Irina
 Perdivara
 Perdivara
 <a href="Margo Wi
- WP 512 Intact Analysis of Biopharmaceuticals by Hydrophobic Interaction/Reversed Phase 2D-LC/MS System; sandeep kondaveeti¹; Dat Phan¹; Bob Giuffre¹; Gregory Staples²; Andrew Coffey³; Suma Ramagiri¹; Priya Jayaraman¹; Jin Zhang¹; ¹Agilent Technologies, Inc., Wilmington, DE; ²Agilent Technologies, Inc., Santa Clara, CA; ³Agilent Technologies, Chruch Stretton, United Kingdom
- WP 513 A Quantitative Compliant Multi Attribute Methodology (MAM) LC/MS workflow; Zoe Zhang¹; Sean McCarthy²; Elliott Jones¹; Todd Stawicki²; ¹Sciex, Redwood City, CA; ²Sciex, Framingham, MA
- WP 514 A Sensitive Microflow LC/MS/MS Method for the Analysis of Corticosteroids in Human Plasma; Ting Liu¹; Wenhai Jin¹; Daniel K Blake²; ¹Sciex, Shanghai, China; ²SCIEX, Warrington, United Kingdom
- WP 515 Homology-Based Peptide Retention Time Prediction for Proteomic RP HPLC-MS Applications; Oleg V. Krokhin¹; Vic Spicer¹; ¹University of Manitoba, Winnipeg, MB
- WP 516 Temperature-Specific Peptide Retention Time Prediction for nano-RP-HPLC in Proteomic Applications; Carina Villacres¹; Benilde Mizero²; Vic Spicer³; Rosa Viner⁴; Julian Saba⁵; Bhavin Patel⁶; Sergei Snovida⁶; Penny Jensen⁶; Andreas Huhmer⁴; Oleg V. Krokhin²; ¾ Manitoba Centre for Proteomics and Systems Biology, University of Manitoba, Winnipeg, Manitoba; ²Department of Chemistry, University of Manitoba, Winnipeg, MB; ¾ Manitoba, Winnipeg, MB; ¾ Manitoba, Winnipeg, Volversity of Manitoba, Winnipeg, MB; ¼ Thermo Fisher Scientific, San Jose, CA; ⑤ Thermo Fisher Scientific, Rockford, IL; ¬Department of Internal Medicine, Winnipeg, MB
- WP 517 Peptide Retention Time Prediction for TMT-Labeled Peptides in RP-HPLC for Proteomic Applications;

 Benilde Mizero¹; Carina Villacres²; Vic Spicer²; Rosa Viner³; Julian Saba; Bhavin Patel⁴; Sergei Snovida⁴; Penny Jensen⁴; Andreas Huhmer³; Oleg V. Krokhin²; ¹Department of Chemistry, University of Manitoba, Winnipeg, MB; ²Manitoba Centre for Proteomics and Systems Biology, University of Manitoba, Winnipeg, Manitoba; ³ThermoFisher, San Jose, CA; ⁴Thermo Fisher Scientific, Rockford, IL

LC/MS: SAMPLE PREPARATION I 518-542

WP 518 Simultaneous Extraction of Proteins, Lipids, and Metabolites for Integrated-omics Approaches for Low Tissue Sampling Volumes; Luke T. Richardson¹; Amy N. W. Schnelle¹; Fabrizio Donnaruma²; Michael E. Pettit¹;

- Shubhneet Warar¹; Nicholas M. von Waaden¹; Kermit K. Murray²; Touradj Solouki¹; ¹Baylor University, Waco, TX; ²Louisiana State University, Baton Rouge, LA
- WP 519 A Comparative Analysis of Two Sample Preparation Methods for the Multi-Omic Analysis of Proteins, Lipids, and Metabolites; Melissa R Pergande^{1, 2}; Sheher Banu Mohsin²; Limian Zhao³; Stephanie M Cologna¹; ¹University of Illinois at Chicago, Chicago, IL; ²Agilent Technologies, Wood Dale, IL; ³Agilent Technologies, Inc., Wilmington, DE
- WP 520 A Robotic System for High Throughput Isolation of Phospholipids from Non-Polar Lipids; Hui Gyu Park¹; Jeffery G. McDonald²; Bonnie M. Thompson²; Gonçalo Vale²; Tom Brenna¹; ¹University of Texas at Austin, Austin, TX; ²University of Texas Southwestern Medical School, Dallas. Texas
- WP 521 Phospholipid Removal from Protein Precipitated Plasma Using In-Line Sample Preparation (ILSP);

 Sharon Lupo¹; Randy Romesberg¹; Xiaoning Lu¹; ¹Restek, Bellefonte, PA
- WP 522 Study of Co-Extracted Matrix Impurities on Coated Solid Phase Microextraction Devices During Short Extractions Out of Plasma; Olga I. Shimelis¹; Katherine K. Stenerson¹; Teresa Marsala¹; Emily R. Barrey¹; Hugh Cramer¹; Cory Muraco¹; ¹MilliporeSigma, Bellefonte, PA
- WP 523 A Sensitive LC-MS/MSMethod for Quantitation of Free and Liposomal Doxorubicin in Dog Plasma; Sheng Wang¹; Jing Huang¹; Yifan Wang¹; Lele Yu¹; Xiaoying Jin¹; Dawei Zhou²; ¹Lab Testing Division of WuXi AppTec, Inc., Suzhou Site, Suzhou, China; ²WuXi AppTec, Cranbury, NJ
- WP 524 LC-MS/MS Method for Determining Cannabidiol in Complex Matrices with a Dual Column-Switching Strategy; Ze Li¹; Peng Wang¹; ¹WuXi AppTec, Plainsboro, NJ
- WP 525 Determination of Tetramethylammonium Hydroxide in Serum by micro Solid Phase Extraction Coupled to Liquid Chromatography-Tandem Mass Spectrometry;

 Chung-Yu Chen¹; Chia-Ying Lin¹; Cheng-Chieh Yen²; Maw-Rong Lee¹; ¹National Chung-Hsing University, Taichung, Taiwan; ²Chung Shan Medical University, Taichung, Taiwan
- WP 526 Development and Implementation of Ultra-Trace Level Detection by LC/MS/MS for Quantitation of Thyroxine Isomers and Metabolites for *in-vitro* Toxicology Screening; Jeremy McFadden¹; Mercedes Biven¹; David Robbins²; Jessica LaRocca¹; Audrey Lehman¹; Bethany Hannas¹; David Hills²; ¹Corteva Agriscience, Indianapolis, IN; ²Eurofins Lancaster Laboratories Professional Scientific Services, Lancaster, PA
- WP 527 Automating the Analysis of Estrogens in Plasma using a Multi-Purpose Auto-Sampler Coupled to Liquid Chromatography Triple Quadrupole Mass Spectrometry; Mary Blackburn; Thermo Fisher Scientific, San Jose. CA
- WP 528 Evolution of Sample Preparation: Workflow Simplification Utilizing Sample Hold-Up Technology in Forensic and Clinical Analyses; Rhys Jones¹; Adam Senior¹; Helen Lodder¹; Lee Williams¹; Geoff Davies¹; Katie-Jo Teehan¹; Alan Edgington¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited, Cardiff, United Kingdom
- WP 529 Determination of Optimal Sample Size with Microelution without Dry Down Using Solid Phase Extraction for a Drugs of Abuse Panel; Jillian Neifeld¹; Jeremy Smith¹; Stephanie Marin¹; Mohamed Youssef¹; Elena Gairloch¹; ¹Biotage, Charlotte, NC
- WP 530 A new device for direct QuEChERS salts extraction:
 Application to Drugs of Abuse in Blood, Urine and Oral
 Fluid; Tiphaine Robin¹; Stephane Moreau²; Franck SaintMarcoux¹; Etienne Maout³, ¹; ¹CBRS, Limoges, France;

 ²Shimadzu Europa GmbH, Duisburg, Germany; ³shimadzu
 france, Paris, France



- WP 531 UHPLC-MS/MS Analysis of Neonicotinoids and their Metabolites in Plant Tissues and Pollen by Modified QuEChERS; Viet D Dang¹; Maura J Hall¹; Ed George²; David J. Borts¹; ¹Iowa State University, Ames, IA; ²ThermoFisher Scientific, San Jose, CA
- WP 532 **Determination of Pesticides in Edible Oils by GC-MS/MS**; Euan Ross¹; Jd De-Alwis¹; <u>Simon Hird</u>¹; Kenneth Rosnack²; ¹Waters, Wilmslow, United Kingdom; ²Waters Corporation, Milford MA
- WP 533 Determination of Pesticides in Dog Collars by Online Supercritical Fluid Extraction Supercritical Fluid Chromatography Mass Spectrometry; William Hedgepeth¹; Yuka Fujita²; ¹Shimadzu Scientific Instruments, Inc., Columbia, MD; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland
- WP 534 Future Directions of Extractable and Leachable (E/L)
 Analysis from Automated Sample Preparation using
 online SPE and Online Solvent Mixing; David A Weil¹;
 James Pyke²; Michael Woodman¹; Gosia Medrecki³; Melissa
 R Pergande⁴; ¹Agilent Technologies, Wood Dale, IL; ²Agilent
 Technologies, Santa Clara, CA; ³Agilent Technologies, Wood
 Dale, IL; ⁴University of Illinois at Chicago, Chicago, IL
- WP 535 Overcoming Recovery Challenges in Hemolyzed Samples for the Determination of Propafenone and 5-Hydroxy Propafenone by LC-MS/MS; Vinicio Vasquez¹; Milton Furtado¹; Mingluan Chen¹; Anahita Keyhani¹; 'Altasciences, Laval, QC
- WP 536 Development and Validation of LC-MS/MS Method for Determining Temozolomide in Mouse Brain Following Intra-Cerebral Microdialysis; Raghavi Kakarla¹; Kimberly Yacoub¹; Baochuan Guo¹; ¹Cleveland State University, Cleveland, OH
- WP 537 Mass Spectrometry Based Analysis of Permethylated N-Glycans Purified and Separated using Microgradient Device; Pavel Rehulka¹; Martina Zahradnikova²; Lukas Uhrik²; Helena Rehulkova¹; Rudolf Nenutil²; Lenka Hernychova²; Milos V. Novotny³; ¹Faculty of Military Health Sci., Univ. of Defence, Hradec Kralove, Czech Republic; ²Regional Centre for Applied Molecular Oncology, Masaryk Memorial Cancer Institute, Brno, Czech Republic; ³Department of Chemistry, Indiana University, Bloomington, IN
- WP 538 Automating Metabolic Stability Assays and Analyses using a Robotic Autosampler and LC/MS/MS Platform;
 Fred D. Foster¹; John R. Stuff¹; Laurel A. Verarelli¹;
 Jacqueline A. Whitecavage¹; ¹Gerstel, Inc., Linthicum, MD
- WP 539 Comparison of SPE Protocols for Phospholipid Removal in Basic Analyte Bioanalytical Quantitation; Melvin Blaze Muttikal Thomas¹; Thomas H Walter¹; Kenneth Berthelette¹; Bonnie A Alden¹; Donna Osterman¹; Kevin Wyndham¹; ¹Waters Corporation, Milford, MA
- WP 540 Cleanup of Pharmaceutical Drugs in Biological Fluids by Automated microSPE Prior to LC/MS; Raquel Gonzalez de Vega¹; Simin Maleknia¹; Matthew Diplock¹; Andrew Minett²; Philip Doble¹; ¹University of Technology Sydney, Sydney, Australia; ²Eprep Pty Ltd, Mulgrave, Australia
- WP 541 Blowing Analytical Precision and Accuracy out of the Water microSPE of Explosives; Matthew Diplock¹; Raquel Gonzalez de Vega1¹; Philip Doble¹; Andrew Minett²; ¹University of Technology Sydney, Sydney, Australia; ²Eprep Pty Ltd, Mulgrave, Australia
- WP 542 Fully Automated Determination of Phosphatidylethanol 16:0/18:1 and 16:0/18:2 in Dried Blood Spots; Marc Joel Luginbuehl¹; Stefan Gaugler²; Wolfgang Weinmann¹;

 ¹Institute of Forensic Medicine Bern, Bern, Switzerland;

 ²CAMAG, Muttenz, Switzerland

LIPIDS: GENERAL 543-564

- WP 543 Mechanism of Prostaglandin E2 Accumulation in Amniotic Fluid during Human Labor; Toshiaki Okuno¹; Nanase Takahashi¹; Takehiko Yokomizo¹; ¹Department of Biochemistry, Juntendo University School of Medicine, Tokyo, Japan
- WP 544 Screening New Reagents for the Paternò-Büchi Reactions for Lipid Analysis by Mass Spectrometry; Jing Zhao¹; Xiaobo Xie¹; Yu Xia¹; ¹Tsinghua University, Beijing, China
- WP 545 Investigating Enzymatic Lipase Activity via Contained-Electrospray Ionization (ESI) Mass Spectrometry as a Function of Secondary Organic Aerosol (SOA) Evolution; Mickey M. Rogers¹; Benjamin J. Burris¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus. OH
- WP 546 Top-Down Shotgun Lipidomics Analysis with Ultra-High Resolution Orbitrap Mass Spectrometry; <u>Kai</u> <u>Schuhmann</u>¹; Konstantin Nagornov²; Anton Kozhinov²; Yury Tsybin²; Andrej Shevchenko¹; ¹MPI-CBG, Dresden, Germany; ²Spectroswiss Sarl, Lausanne, Switzerland
- WP 547 **Quantitative Analysis of Trans-Fatty Acids in Humans**; <u>Heather C Kuiper</u>¹; Na Wei¹; Emily J Mueller¹; Sarah W Kingsley¹; Hubert W Vesper¹; ¹CDC, Atlanta, GA
- WP 548 Analysis of Oxidized Cardiolipins by Solid Phase Extraction and LC/MS; Gaoyuan Liu¹; Richard W Gross²;

 ¹Washington University in Saint Louis, Saint Louis, MO;

 ²Washington University School of Medicine, St. Louis, MO
- WP 549 Acute-phase Serum Lipidome Alterations in a Rodent Model of Closed Head Traumatic Brain Injury; Scott Hogan¹; Kyle Milligan²; Michelle LaPlaca²; Facundo M Fernandez¹; ¹Georgia Institute of Technology, School of Chemistry and Biochemistry, Atlanta, Georgia; ²Georgia Institute of Technology, Department of Biomedical Engineering, Atlanta, Georgia
- WP 550 Comparative Analysis of Nutritional Lipids from Marine Sources by Supercritical Fluid Chromatography with Tandem Mass Spectrometry; Greg Winter¹; Paolo Lecchi¹; Craig Mallon¹; Dominik Burger¹; DSM, Columbia, MD
- WP 551 Serum Lipidomics of Pregnant African American Women Exposed to Environmental Toxicants; Anna A Ivanova¹; Kristal Maner-Smith¹; Dana Boyd Barr¹; Anne L Dunlop¹; Eric A Ortlund¹; ¹Emory University, Atlanta, GA
- WP 552 Analysis of Very Long Chain Fatty Acids by Supercritical Fluid Chromatography-Mass Spectrometry; Paolo Lecchi¹; Gregory Winter¹; Dominik Burger¹; Srujana Beeram¹; ¹DSM Nutritional Products, Columbia, MD
- WP 553 Triglyceride Precursor Pool Enrichment and de novo Lipogenesis in Plasma Lipoproteins Probed by Stable-Isotope GC/MS-MIDA Methodology Using Multiple Tracer-Administration Protocols; Sergiu P. Palii¹; Grace M. Jones¹; Mariel Dologmandin¹; Zachary Woodward¹; David Doud¹; Jean-Marc Schwarz¹.²; ¹Touro University California, Vallejo, CA; ²University of California, San Francisco (UCSF), San Francisco. CA
- WP 554 Discovery of Novel LPA-Binding Proteins Using a Chemical Proteomic Method; Xuejiao Dong¹; Yinsheng Wang¹; ¹UC Riverside, Riverside
- WP 555 Effect of Matrix Type and Storage Conditions on Lipid Profiles of Clinical Blood Samples; Rahul Deshpande¹; Kaitlyn Scola¹; Tim Wood¹; ¹Greenwood Genetic Center, Greenwood, SC
- WP 556 Lipid profiling of Chromochloris zofingiensisin
 Photoautotrophic and Heterotrophic Cultures; Yuntao
 Hu^{1,2}; Melissa S Roth²; Katherine Louie^{1,3}; Benjamin
 Bowen^{1,3}; Krishna Niyogi²; Trent Northen^{1,3}; **ILawrence
 Berkeley Laboratory, Berkeley, CA; **2University of California,
 Berkley, Berkeley, CA; **Joint Genome Institute, Walnut
 Creek, CA



- WP 557 Lipidomic Analyses of Wild Type, Knock-Out, S508D-, and S508A-CEACAM1 Heptocarcinoma Cells; Gabriel B. Gugiu^{1, 2, 3}; Jennifer Chean^{1, 2}; Charng Chen^{1, 2}; John E. Shively^{1, 2}; ¹City of Hope, Duarte, CA; ²Beckman Research Institute, Department of Molecular Imaging and Therapy, Duarte, CA; ³Beckman Research Institute, Department of Shared Resources, Mass Spectrometry and Proteomics Core Facility, Duarte, CA
- WP 558 High Speed Untargeted Lipidomics and Metabolomics LC-MS/MS workflows with Parallel Accumulation Serial Fragmentation (PASEF); Ulrike Schweiger-Hufnagel¹; Aiko Barsch¹; Sven W. Meyer¹; Bruker Daltonics, Bremen, Germany
- WP 559 The Regulation of the Molecular Structural Diversity of Mitochondrial Cardiolipins in Mouse Tissues; Gregor Oemer¹; Jakob Koch²; Mohammed Tauqeer Alam³; Marie-Luise Edenhofer²; Sabrina Sailer⁴; Carolina Doerrier⁵; Ernst R Werner⁴; Katrin Watschinger⁴; Erich Gnaiger⁵; Johannes Zschocke²; Markus A Keller²; ¹Division of Human Genetics, Medical Unversity of Innsbruck, Innsbruck, Austria; ²Division of Human Genetics, Medical Unversity of Innsbruck, Innsbruck, Marwick, Innsbruck, Warwick, Medical School, University of Warwick, Warwick, United Kingdom; ⁴Division of Biological Chemistry, Biocenter, Medical University of Innsbruck, Innsbruck, Austria; ⁵Oroboros Instruments Corporation, Innsbruck, Austria
- WP 560 Fatty Liver is More than Neutral Lipid Accumulation: An Analysis of Human Non-Alcoholic Fatty Liver by Shotgun Lipidomics; Olga Vvedenskaya¹; Oskar Knittelfelder¹; Eduardo Jacobo Miranda Ackerman¹; Josch Pauling²; Judith Wodke³; Jochen Hampe⁴; Andrej Shevchenko⁵; ¹Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany; ²Technische Universität München, Freising, Germany; ³Humboldt University, Berlin, Germany; ⁴Dresden University Clinic, Dresden, Germany; ⁵Max Plank Institute for Molecular Cell Biology and Genetics, Dresden, Germany
- WP 561 Mass Spectrometric Study on the Source of Error in Quantification of Free Fatty Acids; Hyejin Park¹; Tae-Young Kim¹; ¹School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, Gwangju. South Korea
- WP 562 Trapped Ion Mobility Spectrometry (TIMS) and Parallel Accumulation Serial Fragmentation (PASEF) for Nanoflow LC-MS/MS-Based Lipidomics; Catherine G. Vasilopoulou¹; Karolina Sulek²; Andreas-David Brunner¹; Sven W. Meyer³; Ulrike Schweiger-Hufnagel³; Ningombam Sanjib Meitei⁴; Matthias Mann¹.²; Florian Meier¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany; ²NNF Center for Protein Research University of Copenhagen, Copenhagen, Denmark; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴PREMIER Biosoft, Palo Alto. CA
- WP 563 Lipidomics of Dolphin Serum to Assess Physiological and Ecological Changes Following the Deepwater Horizon Oil Spill; Michael P. Napolitano^{1, 2}; Maggie Broadwater¹; Tracey B. Schock^{2, 3}; Ryan Takeshita⁴; Terri K. Rowles⁵; Lori H. Schwacke⁶; *National Oceanic and Atmospheric Administration, Charleston, SC; *Hollings Marine Laboratory, Charleston, SC; *National Institute of Standards and Technology, Charleston, SC; *National Marine Mammal Foundation, Boulder, CO; *5National Oceanic and Atmospheric Administration, Silver Spring, MD; *6National Marine Mammal Foundation, Charleston, SC
- WP 564 Sample Preparation Effects on Retinal Lipid Analysis by MALDI Imaging and LC-MS Technologies; Ankita Kotnala; Vanderbilt University, Nashville, TN

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- WP 565 MxP® Quant 500 Kit Novel Standardized Metabolomics/Lipidomics Analysis Tool for Comprehensive Targeted Profiling; Hai Pham Tuan¹; Ulf Sommer¹; Svenja Heischmann¹; Doreen Kirchberg¹; Xenia Iwanowa¹; Radu Talmazan¹; Barbara Wolf¹; Martin Buratti¹; Rosa Argamasilla Martinez¹; Cornelia Röhring¹; Therese Koal¹; ¹BIOCRATES Life Sciences AG, Innsbruck, Austria
- WP 566 New Features and Functions of the Old "Mustard Oil Bomb" in Single Cell-Types; Shweta Chhajed¹; Craig Dufresne²; Nathalia Tello¹.³; Alice Harmon¹.⁴.⁵; Sixue Chen¹.⁴.⁵; ¹Department of Biology, University of Florida, Gainesville, FL; ²Thermo Fisher Scientific, West Palm Beach, FL; ³SF2UF Bridge Program, University of Florida, Gainesville, FL; ⁴Plant Molecular and Cellular Biology, University of Florida, Gainesville, FL; ⁵Genetics Institute, University of Florida, Gainesville, FL; ⁵nterdisciplinary Center for Biotechnology Research, University of Florida, Gainesville, FL
- WP 567 Effects of Acute Ambient PM2.5 Exposure on Heart in C57BL/6J Diet-Induced Obesity Mouse Model; Yuanyuan Song¹; Yanhao Zhang¹; Zenghua Qi²; Ruijin Li³; Zongwei Cai¹; ¹Hong Kong Baptist University, Hong Kong, China; ¹Guangdong University of Technology, Guangzhou, China; ³Shanxi University, Taiyuan, China
- WP 568 Meta-Analysis of Targeted Metabolomics Data from Heterogeneous Biological Samples Provides Insights into Metabolite Dynamics; Ho-Joon Lee¹; Daniel Kremer¹; Peter Sajjakulnukit¹; Li Zhang¹; Costas Lyssiotis¹; University of Michigan Medical School, Ann Arbor, MI
- WP 569 Targeted Multi-OMICS: Rapid Plasma Profiling of a Bladder and Lung Cancer Human Cohort; Sarah Lennon¹; Billy J Molloy¹; Lee A Gethings¹; Robert S Plumb²; Andrew Peck²; ¹Waters corporation, Wilmslow, United Kingdom; ²Waters Corporation, Milford, MA
- WP 570 An Improved Isotope-Labeling Chemical Derivatization LC/MRM-MS Method for Reliable Quantitation of >70 FAs in Human Serum; Jun Han^{1,2}; Kieran Atkinson¹; Evan Dyson-Loewen¹; Mia Frier¹; Juncong Yang¹; John Ducas³; Robin Ducas³; Erin Weldon⁴; Tom Jelic⁴; R. Antony Shaw⁵; Christoph H. Borchers^{1, 6, 7, 8}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; ²Division of Medical Sciences, University of Victoria, Victoria, BC; 3Faculty of Medicine, Department of Cardiology, University of Manitoba, Winnipeg, Manitoba; 4Faculty of Medicine, Department of Emergency Medicine, University of Manitoba, Winnipeg, Manitoba; 5National Research Council of Canada, Winnipeg, Manitoba; Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 7Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; *Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- WP 571 Quantification of Polar Metabolites in Urine using an Automated Parallel Derivatization Strategy andLC-SWATH-MS; Guenter Boehm¹; Maria Fernanda Cifuentes Girard²; David Ruscic³; Renzo Picenoni¹; Gerard Hopfgartner³; ¹CTC Analytics AG, Zwingen, Switzerland; ²Life Sciences Mass Spectrometry, Department of analytical and Inorganic Chemistry, University of Geneva, Geneva, Switzerland; ³Life Sciences Mass Spectrometry, Department of analytical and Inorganic Chemistry, University of Geneva, Geneva, Switzerland
- WP 572 Isotope-Labeled Metabolic Flux Analysis of the Gut Microbiota-Driven Carnitine Metabolism; Hsin-bai Zou¹; Fang-Wei Kuo²; Qiang Lyu³; Hsin-Yuan Chang³; Cheng-Chih Hsu³; Wei-Kai Wu⁴; ¹Department of Chemistry, National Taiwan University, taipei, Taiwan; ²Institute of



- food science and technology, taipei, Taiwan; ³Department of Chemistry, National Taiwan University, Taipei, Taiwan; ⁴Department of Internal Medicine, National Taiwan University Hospital Bei-Hu Branch, Taipei, Taiwan, taipei, Taiwan
- WP 573 Multiplexed High Throughput LC-MS/MS Method for Targeted Metabolites and Neurotransmitters from Central Nervous System; Juho Heininen¹; Tapio Kotiaho¹; Anu Vaikkinen¹; Risto Kostiainen¹; ¹University of Helsinki, Helsinki, Finland
- WP 574 Derivatisation of Central Metabolites in SUIT-2 Cells
 Using 2-bromo-1-(4-dimethylamino-phenyl)-ethanone
 Enables LC-MS/MS Energy-State Analysis; Cornelius
 C W Willacey¹; Martijn Naaktgeboren¹; Edinson Lucumi
 Moreno¹; Alida S D Kindt¹; Daan van der Es²; Ronan M T
 Fleming¹; Amy C Harms¹; Thomas Hankemeier¹; ¹Analytical
 BioSciences and Metabolomics, Systems Biomedicine and
 Pharmacology, Leiden Academic Centre for Drug Research,
 Leiden University, Leiden, Netherlands; ²Medicinal
 Chemistry, Drug Discovery and Safety, Leiden Academic
 Centre for Drug Research, Leiden University, Leiden, The
 Netherlands. Leiden. Netherlands
- WP 575 Assessment of the Microbiota Metabolome and Its Role in Cardiovascular Diseases; Tuan Hai Pham¹; Ulf Sommer¹; Svenja Heischmann¹; Barbara Wolf¹; Fadi Abdi¹; Therese Koal¹; ¹BIOCRATES Life Sciences AG, Innsbruck, Austria
- WP 576 Quantitative Comparison of the Suppression between HILIC and Reverse Phase Chromatography; Lucas Veillon¹; John N Weinstein¹; Phil Lorenzi¹; Felice A de Jong²; Chris Beecher²; ¹MD Anderson Cancer Center, Houston, TX; ²IROA Technologies LLC, Bolton, MA
- WP 577 **5-plex iDiLeu Enabled Neurotransmitter Absolute Quantitation in the Crustacean Nervous System**;

 <u>Qinjingwen Cao</u>¹; Gongyu Li¹; Amanda R. Buchberger¹;

 Lingjun Li¹; **IUniversity of Wisconsin-Madison, Madison, WI
- WP 578 Rapid Automated Absolute Quantification of Metabolites Using Polly QuantFit to Understand Tumor Nutrient Availability; Abhishek Jha¹; Avijit Zutishi²; Raghav Sehgal²; Shubham Agarwal²; Taranjyot Singh²; Shefali Lathwal²; Swetabh Pathak²; Alex Muir³; Caroline Lewis⁴; Mark Sullivan³; Matthew G. Vander Heiden³; ¹Elucidata, Cambridge, MA; ²Elucidata, Delhi, India; ³Massachusetts Institute of Technology, Cambridge, MA; ⁴Whitehead Intitute, Cambridge, MA
- WP 579 Simultaneous Analysis of Steroids and Lipids in Serum Employing Liquid Chromatography-Ion Mobility Spectrometry-Mass Spectrometry Analysis; Alana Rister¹; Katie L Bidne¹; Jennifer R Wood¹; Eric D. Dodds¹; ¹University of Nebraska Lincoln, Lincoln, NE
- WP 580 Direct Quantification of Polyamines in Arabidopsis thaliana seedlings by LC-MS/MS; Masoud Zabet Moghaddam¹; parvin mirzaei²; mohamed Fokar²; Yehia Mechref³; ¹Texas Tech University, Box 43132 Lubbock, TX; ²Texas Tech University, Lubbock, TX; ³Texas Tech University, Lubbock
- WP 581 Innovative One-Step Protocol for Producing Deuterium-Labeled Metabolites and Their Use for Quantitative LC-HRMS-Based Targeted Metabolomics; Annelaure Damont¹; Yu Min Kiw¹; Kathleen Rousseau¹; Sophie Feuillastre²; Grégory Pieters²; Christophe Junot³; François Fenaille¹; ¹Service de Pharmacologie et Immunoanalyse (SPI), Laboratoire d'Etude du Métabolisme des Médicaments (LEMM), CEA, INRA, Université Paris-Saclay, MetaboHUB-IDF, Gif-Sur-Yvette, France; ²Service de Chimie Bio-organique et de Marquage, Laboratoire de Marquage au Tritium, Département Médicaments et Technologies pour la Santé, Institut Joliot, CEA, Université Paris-Saclay, Gif-Sur-Yvette, France; ³Service de Pharmacologie et Immunoanalyse (SPI), Département Médicaments et

- Technologies pour la Santé, Institut Joliot, CEA, INRA, Université Paris-Saclay, MetaboHUB-IDF, Gif-Sur-Yvette, France
- WP 582 Reovirus-Induced Alterations in the Metabolome of M1 and M2 Macrophages; Michael Giacomantonio¹; Patrick J Murphy¹; Barry Kennedy¹; Shashi Gujar¹.²; ¹Department of Pathology, Dalhousie University, Halifax, NS, Canada, Halifax, NS; ²Department of Microbiology and Immunology, Dalhousie University, Halifax, NS, Canada, Halifax, NS, Canada, Halifax, NS
- WP 583 Profiling of Bile Acids, Histidine, and Histamine in Gastric Juice by LC-MS/MS Combined with Serial Derivatization: Diagnosis of Gastric Cancer; Wonwoong Lee¹; Jinhee Um¹; Keon-hee Ko¹; Bong Chul Chung²; Jongki Hong¹; ¹Kyung Hee University, Seoul, South Korea; ²Korea Institute of Science and Technology, Seoul, South Korea
- WP 584 Rapid LC-MS/MS Method for Targeted Quantitation of Human Performance Metabolites in Saliva; Ethan McBride¹; Richard J Lawrence¹; Kirstin McGee¹; Phillip M Mach¹; Paul S Demond²; Michael W Busch²; John W Ramsay³; Erika K Hussey³; Trevor Glaros¹; Elizabeth S Dhummakupt¹; ¹Research and Technology Directorate, Research Development & Engineering Command (RDECOM) Edgewood Chemical Biological Center (ECBC), Aberdeen Proving Ground, MD; ²Excet, Inc., Springfield, VA; ³U.S. Army Natick Soldier Research, Development & Engineering Center, Natick, MA
- WP 585 Spatial Distribution of Ractopamine Residues in Bovine muscle; Valerie Lindstrom¹; Haley E Davis¹; Jacqueline M Chaparro¹; Keith E Belk¹; Jessica E. Prenni¹; ¹Colorado State University, Fort Collins, CO
- WP 586 Improving the Accuracy of Endogenous tZ-Type
 Cytokinins Determination by Elucidation of the
 Fragmentation Mechanism; Peiyong Xin¹; Jinfang Chu¹;
 ¹National Center for Plant Gene Research (Beijing), Institute
 of Genetics and Developmental Biology, Chinese Academy
 of Sciences, Beijing, China
- WP 587 Measurement of Metabolites in Feces of Japanese Rock Ptarmigans by LC-MS/MS; Takanari Hattori¹; Yukari Oka¹; Shuichi Kawana¹; Koretsugu Ogata¹; Sayaka Tsuchida².³; Atsushi Kobayashi⁴; Yoshiaki Nakamura⁵; Hiroshi Nakamura⁵; ¹Shimadzu Corporation, Kyoto, Japan; ²Kyoto Prefectural University, Kyoto, Japan; ³Chubu University, Kasugai, Japan; ⁴Toho University, Tokyo, Japan; ⁵Hiroshima University, Hiroshima, Japan; ⁵Nakamura Hiroshi International Institute for Ornithology, Nagano, Japan
- WP 588 Rapid Throughput Quantitation of Carboxylic Acid Metabolites Using UHPLC/QqQ-MS to Monitor Diet and the Microbiome; Diane Tu¹; Carol Stroble¹; Matthew J. Amicucci¹; Gege Xu¹; Jennifer T Smilowitz¹; Carlito B Lebrilla¹; ¹University of California, Davis, Davis, CA
- WP 589 A Critical Look at Highly Mulitplexed Targeted Metabolomics: Data Quality Effects from Large Target Lists; Robert Pepin¹; Mathew Ellenberger¹; Daniel Raftery¹. 2; ¹University of Washington, Seattle, WA; ²Fred Hutchinson Cancer Research Center, Seattle, WA
- WP 590 Simultaneous Detection of Tricarboxylic Acid Cycle Intermediates using LC-MS/MS with a Synergi®
 Fusion-RP HPLC Column; Xianrong (Jenny) Wei¹; Ryan Splitstone¹; Sean Orlowicz¹; ¹Phenomenex, Torrance, CA
- WP 591 Comparative Metabolomics of Staphylococcus aureus by HPLC-DAD-MS/MS; Gerson D. López¹; Chad Leidy¹; Chiara Carazzone¹; ¹Universidad de los Andes, Bogotá D.C, Colombia
- WP 592 Development of a UPLC-MS/MS Method to Quantitate Process-Induced Nitrogen Compounds and their Metabolites in Urine Samples; Yi-Chen Sun¹; Hsin-Chang Chen¹; ¹Institute of Food Safety and Health, National Taiwan University, Taipei, Taiwan



- WP 593 Analysis of Endogenous Steroid Hormones in Urine Using High-Resolution LC-MS; Lancia N.F. Darville-bowleg¹; Min Liu¹; Jayden Cline¹; Yessica C. Martinez-Monta¹; Shannan Rich²; John Koomen¹; Lusine Yaghjyan²; Kathleen M Egan¹; ¹Moffitt Cancer Center, Tampa, FL; ²University of Florida, Gainesville, FL
- WP 594 Gut Microbial and Hepatic Metabolism of the Hop Flavonoid, Xanthohumol, in Humans; Wenbin Wu¹; Ines L Paraiso¹; Ralph Reed¹; Jeffrey Morré²; Jan F. Stevens¹; ¹Department of Pharmaceutical Sciences, Linus Pauling Institute, Oregon State University, Corvallis, Oregon; ²Department of Chemistry, Oregon State University, Corvallis, Oregon
- WP 595 Fit-for-Purpose Quantitative LC-MS and CE-MS
 Metabolomics Methods to Inform Alzheimer's Research;
 Kendra J. Adams¹; J. Will Thompson¹; W. Kirby Gottschalk¹;
 Joan G. Wilson¹; M. Arthur Moseley¹; Carol A. Colton¹;
 ¹Duke University School of Medicine, Durham, NC
- WP 596 A Novel and Comprehensive Steroid Assay Including Thyroxin Compounds Using Small Volume Human Serum or Plasma Samples; Gregory Byram¹; Chris Vanselow²; Patrick Fitzgerald¹; Catherine Paige Riley³; Stacy Tremintin²; Oliver Fiehn¹; ¹UC Davis West Coast Metabolomics Center, Davis, CA; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, West Palm Beach, FL
- WP 597 **Probing the Altered Microbiome of ASD for Metabolic**Clues; Emily R. Sekera¹; Troy D. Wood¹; Heather L.
 Rudolph¹; ¹University at Buffalo, Buffalo, NY

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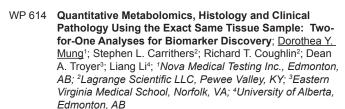
- WP 598 Untargeted Metabolomics Profiling of Longitudinal Urine Samples Collected from Individual Participant of Integrated Personalized Omics Profiling (iPOP) Project; Songjie Chen¹; Liang Liang¹; Yuqin Dai²; Michael Snyder¹; ¹Stanford University, Stanford, CA; ²Agilent, Santa Clara, CA
- WP 599 Using Mass Spectrometry-Based Metabolomics to Explore Polyphenol Profile Diversity among Different Lentil Seed Coat Colors and Patterns; Fatma M.

 Elessawy¹; Derek Wright¹; Albert Vandenberg¹; Anas El-Aneed¹; Randall W. Purves¹.²; ¹University of Saskatchewan, Saskatoon, SK; ²Canadian Food Inspection Agency, Saskatoon, SK
- WP 600 Correcting Metabolomic Data for Source Variances
 Using IROA; Fei Tang¹; Felice de Jong²; Chris Beecher²;
 Markos Leggas¹; ¹University of Kentucky, Lexington, KY;
 ²IROA Technologies LLC, Bolton, MA
- WP 601 Untargeted Profiling of Metabolites, Nutrients, and Toxins in Sera from the Isle of Wight Multigenerational Birth Cohort; Thilani M. Anthony¹; Wilfried J. J. Karmaus²; Su Chen3; Susan Ewart4; Syed Hasan Arshad5, 6, 7; John W. Holloway8; Hongmei Zhang2; A. Daniel Jones1, 9; 1Department of Biochemistry & Molecular Biology, Michigan State University, East Lansing, MI; 2Division of Epidemiology, Biostatistics, and Environmental Health, School of Public Health, University of Memphis, Memphis, Tennessee; 3Department of Mathematical Sciences, University of Memphis, Memphis, Tennessee; ⁴Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University, East Lansing, MI; ⁵Clinical and Experimental Sciences. Faculty of Medicine. University of Southampton, Southampton, United Kingdom; ⁶The David Hide Asthma and Allergy Research Centre, Isle of Wight, United Kingdom; 7NIHR Respiratory Biomedical Research Unit, University Hospital Southampton, Southampton, United Kingdom; *Human Development and Health, University of Southampton, Southampton,

- United Kingdom; ⁹Department of Chemistry, Michigan State University, East Lansing, MI
- WP 602 A Metabolomics Study into during Infection with Influenza Virus by HRAM Q-TOF Analysis; Emily

 Armitage¹; Jonathan Swann²; Mick Bailey³; Ian D Wilson²; Neil J Loftus¹; ¹Shimadzu MS/BU, Manchester, United Kingdom; ²Imperial College London, Department of Surgery and Cancer, United Kingdom; ³School of Veterinary Sciences. University of Bristol. Bristol. United Kingdom
- WP 603 Using IROA-Based Internal Standard Normalization to Minimize Non-IROA Metabolite Variation; Chris Beecher¹; Felice de Jong²; ¹IROA Technologies, Chapel Hill, NC; ²IROA Technologies LLC, Bolton, MA
- WP 604 Regaining the ASHES: Finding Chemical 'Clues' to Mitigate the Impact OF Ash Dieback; John D Sidda¹; Christine M Sambles²; Lijiang Song¹; Murray R Grant¹; ¹University of Warwick, Coventry, United Kingdom; ²University of Exeter, Exeter, United Kingdom
- WP 605 Proteometabolomics of Bortezomib Resistance in Multiple Myeloma; David C. Koomen¹; Joy D. Guingab-Cagmat²; Paula S. Oliveira¹; Bin Fang¹; Min Liu¹; Eric A. Welsh¹; Mark B. Meads¹; Tuan Nguyen¹; Laurel E. Meke²; Steven A. Eschrich¹; Timothy J. Garrett²; John M. Koomen¹; Kenneth H. Shain¹; †H. Lee Moffitt Cancer Center, Tampa, FL; ²University of Florida, Gainesville, FL
- WP 606 Untargeted Metabolomics of Bumble Bee Cold Tolerance Using Stacked Injection of Biphasic Extraction with LC-MS/MS; Mitchell Helling¹; Kennan J. Oyen¹; Michael E. Dillon¹; Franco Basile¹; ¹University of Wyoming, Laramie, WY
- WP 607 Methanol Quenching Versus Flash Freezing for Metabolomics Profiling of Wheat Leaves; Marie J Andales¹; Linxing Yao²; Corey D. Broeckling¹; Kaitlyn Maloley¹; *Proteomics & Metabolomics Facility, Colorado State University, Fort Collins, CO; *Proteomics and Metabolomics Facility of Colorado State University, Fort Collins, CO
- WP 608 A Metabolomic SWATH-MS Approach Applied to PBMCs from First Psychotic Episode Patients; Margarida
 Coelho¹; Vera M Mendes¹; Cátia Santa¹; Manuel Coroa²;
 Sofia Morais²; Inês Baldeiras¹; Nuno Madeira²; Antonio
 Macedo²; Bruno Manadas¹; ¹Center for Neuroscience and
 Cell Biology, Cantanhede, Portugal; ²Psychiatry department,
 CHUC, Coimbra, Portugal
- WP 609 Development and Application of a Novel Metabolomics
 Platform Based on Capillary Electrophoresis Coupled
 with a High-Resolution Mass Spectrometry; Kazunori
 Sasaki¹; Hitoshi Sagawa¹; Makoto Suzuki¹; Kaori Abe¹;
 Satoshi Ito²; Tsutomu Negama²; Moon-II Kang¹; Kenjiro
 Kami¹; ¹Human Metabolome Technologies, Tsuruoka,
 Japan; ²Sekisui Medical Company, Chuo-ku, Japan
- WP 610 Comparison of Data-Dependent Acquisition Methods on an Orbitrap ID-X; Kevin Y Cho¹; Fuad J Naser¹; Michaela Schwaiger-Haber¹; Miriam Sindelar¹; Gary J Patti¹; ¹Washington University in St. Louis, St. Louis, MO
- WP 611 A Systematic Approach to Development of Analytical Scale and Microflow-based LC-MS Metabolomics Methods to Support Drug Discovery and Development; Sarah Geller¹; Harvey Lieberman¹; Alla Kloss¹; Alexander R Ivanov²; ¹Sanofi, Waltham, MA; ²Department of Chemistry and Chemical Biology, Northeastern University, Boston. MA
- WP 612 Metabolomics Analysis of Respirofermentative
 Phenotypes in a Crabtree-Positive and -Negative Yeast;

 <u>April Miguez</u>¹; Mark Styczynski¹; ¹Georgia Institute of
 Technology, Atlanta, GA
- WP 613 Separation and Analysis of Low Molecular
 Weight Organic Acid Metabolites by Mixed-Mode
 Chromatography Coupled to Mass Spectrometry; Kerri
 Smith¹; Paul D Rainville¹; **Waters Corporation, Milford, MA



WP 615 MDM2 Copy Number Aberrations Alter Ceramide Glycosylation in Liposarcoma Tumors, Impacting Drug Response; Andrew Patt¹; Bryce Demoret¹; Andrew Patterson²; Philip Smith²; Ewy Mathe¹; James Chen¹; ¹The Ohio State University, Columbus, OH; ²Pennsylvania State University, State College, PA

WP 616 Analysis of Volatile Organic Profiles in Stem Cells by Comprehensive Two-Dimensional Gas Chromatography with Time-of-Flight Mass Spectrometry; Christopher A.

Heist¹; Jean-marie D. Dimandja²; Milad Navaei¹; ¹Georgia Tech Research Institute, Atlanta, GA; ²Georgia Institute of Technology, Department of Mechanical Engineering,

WP 617 Stable Isotope Label-Supported IM-QRAI Methods for Metabolomics; Max Feuerstein¹; Ruwan T. Kurulugama²; John C. Fjeldsted²; Tim Causon¹; Stephan Hann¹; *Institute of Analytical Chemistry, Department of Chemistry, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria; *Agilent Technologies, Inc., Santa Clara, CA

WP 618 Integrating 4D Peak Picking of LC-TIMS-MS/MS Data into GNPS Feature Based Molecular Networking for Metabolomics and Lipidomics Analysis; Florian Zubeil¹; Nikolas Kessler¹; Heiko Neuweger¹; Sven W. Meyer¹; Ulrike Schweiger-Hufnagel¹; Aiko Barsch¹; ¹Bruker Daltonik GmbH, Bremen, Germany

WP 619 Robust and Sensitive Untargeted Microflow Metabolomics with OptiFlow™ Turbo V Source; Khatereh Motamedchaboki¹; <u>Carmai Carmai²</u>; Lekha Sleno³; Vivaldy Prinville³; ¹Sciex, Redwood City, CA; ²SCIEX, Concord, ON; ³Universite du Quebec a Montreal, Montreal, Québec

WP 620 Development of 4-Channel Chemical Isotope Labeling LC-MS for Comprehensive Profiling of the Human Tear Metabolome; Kevin Hooton¹; Gavin SW Tan².³.⁴.⁵; Lei Zhou².⁴.⁵; Liang Li⁶; ¹Nova Medical Testing Inc., Edmonton, AB; ²Singapore Eye Research Institute, Singapore, Singapore; ³Singapore National Eye Center, Singapore, Singapore; ⁴Duke-NUS Medical School, Singapore, Singapore; ⁵National University of Singapore, Singapore; ⁵University of Alberta, Edmonton, AB

WP 621 HILIC-HR-MS for (untargeted) Metabolomics in Microorganisms – the Optimal Method for Polar Compounds in an Industrial Setting?; Leon Coulier¹; Wouter Coppes¹; Raymond Ramaker¹; Sandra Pous-Torres¹; ¹DSM Biotechnology Center, Delft, Netherlands

WP 622 Nutrient Addition Effect on Four Setaria Accessions in Marginal Soil: Deciphering Plant-Ectorhizosphere's Relationships under Nutrient Limitation; Matthew J. Peterson¹; Pubudu P. Handakumbura¹; Zachary R. Russell¹; Christer Jansson¹; Young-Mo Kim¹; Sarah J. Fansler¹; Montana L. Smith¹; Jason G. Toyoda¹; Rosalie K. Chu¹; Bryan A. Stanfill¹; Steven C. Fransen²; Kim K. Hixson¹; Stephen J. Callister¹; **Pacific Northwest National Laboratory, Richland, WA; **Washington State University Irrigation Agriculture Research and Extension Center, Prosser, WA

WP 623 Unifying Ionization Efficiencies: Quantitative Comparison of Diverse Data Sets and Validation of Prediction Models; Pila Liigand¹; Jaanus Liigand¹; Karl Kaupmees¹; Anneli Kruve¹; ¹University of Tartu, Institute of Chemistry, Tartu, Estonia

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WP 624 Investigation of the Formation and Structure Characteristics of miR-92a G-quadruplex by ESI-MS;
Min Xi^{1,2}; Jiang Zhou¹; Yizhou Li²; ¹College of Chemistry and Molecular Engineering, Peking University, Beijing, China;
²School of Pharmaceutical Sciences, Chongqing University, Shapingba, China

WP 625 Nucleotide Composition Analysis of Unknown Synthetic Oligo Products; Roger G Moore¹; Denise A Keen¹; Piotr Swiderski¹; Marcin Kortylewski¹; Markus Kalkum¹; ¹City of Hope, Duarte, CA

WP 626 Compliant-Ready Workflow for Mass Confirmation Of Oligonucleotide and Related Impurities; Andrew Tudor¹; Maria Basanta-sanchez²; Alessio Zammataro³; Barry Dyson³; Laetitia Denbigh³; ¹waters, Wilmslow, United Kingdom; ²Waters Corporation, Pleasanton, CA; ³Waters Corporation, Wilmslow, United Kingdom

WP 627 Binding of Phenanthroline-Neomycin Conjugates with Different G-Quadruplex DNA Investigated by ESI Mass Spectrometry and Isothermal Titration Calorimetry; Mandeep Singh¹; Vanessa Marie Rangel¹; Ryan Hekman¹; Craig Vierra¹; Liang Xue¹; ¹University of the Pacific, Stockton, CA

WP 628 DNA/RNA Adducts Formation from Bisphenol F
3,4-Quinone Metabolite; Wang Xiaoxiao¹; Zhao Hongzhi²;
Cai Zongwei²; ¹State Key Laboratory of Environmental and
Biological Analysis, Department of Chemistry, Hong Kong
Baptist University, Hong Kong, China; ²State Key Laboratory
of Environmental and Biological Analysis, Department of
Chemistry, Hong Kong Baptist University, HongKong, China

WP 629 Automatic Top-Down Spectral Annotation of Modified Oligonucleotides; Maria Basanta-sanchez¹; Iggy Kass²; Catalin Doneanu²; ¹Waters Corporation, Pleasanton, CA; ²Waters Corporation, Milford, MA

WP 630 Discovery and Identification of an Unknown DNA Adduct in HeLa Cells Exposed to Colibactin-Producing E.coli using Untargeted DDA-CNL/MS3 Adductomic Analysis; Peter W Villalta¹; Matthew R Wilson²; Yindi Jiang²; Alessia Stornetta¹; Paul D Boudreau²; Andrea Carra¹; Caitlin A Brennan³; Eunyoung Chun³; Lizzie Ngo⁴; Leona D Samson⁴; Bevin P Engelward⁴; Wendy S Garrett^{3, 5, 6}; Emily P Balskus²; Silvia Balbo^{1,7}; ¹University of Minnesota Masonic Cancer Center, Minneapolis, Minnesota; 2Department of Chemistry and Chemical Biology, Harvard University, Cambridge, Massachusetts; 3Department of Immunology and Infectious Diseases and Department of Genetics and Complex Diseases, Harvard T. H. Chan School of Public Health, Boston, Massachusetts; 4Department of Biological Engineering, MIT, Cambridge, Massachusetts; 5Broad Institute of MIT and Harvard, Cambridge, Massachusetts; ⁶Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts; 7Division of Environmental Health Sciences, University of Minnesota, Minneapolis, Minnesota

WP 631 Method Development for Metabolite and Impurity Profiling of Oligonucleotide Therapeutics; Kaoru Karasawa¹; Lyle Burton²; Eva Duchoslav²; ¹SCIEX, Shinagawa-ku, Japan; ²SCIEX, Concord, ON

WP 632 Comparison between ISD by MALDI Tof and CID by ESI ion trap FTICR ofNF-kB Decoy Oligodeoxynucleotide and its metabolites; Zenzaburo Tozuka¹; Akihiro Kunisawa²; Junko Ilda²; Ryuichi Morishita³; Shohei Shioyama⁴; ¹Grad. Sch. Pharm. Sci./ Osaka University, Suita, Osaka, Japan, Suita, Japan; ²Anal. Innov. Res. Lab. Grad. Sch. Eng./ Osaka University, Suita, Japan; ³Grad. Sch. Med. Sci./ Osaka University, Suita, Japan; ⁴JCL Bioassay Corporation, Nishiwaki, Japan

WP 633 Study of the Reduction of Azidothymidine (AZT) Using Electrochemistry Coupled to a Mass Spectrometer;

ATLANTA

- Raquel Teijeiro¹; Francesca Cogliandro¹; Elvira Gomez¹; <u>Jef Rozenski</u>¹; ¹Rega Institute, Leuven, Belgium
- WP 634 Identification and Characterization of Urinary Nucleosides using Compound Discoverer 3.0 and Fragment Identification Search (FISh); Robert Ross¹; Ruoxia Zhao¹; Ningxi Yu¹; Andrew Wood¹; Manasses Jora¹; Ralf Tautenhahn²; Patrick A Limbach¹; ¹University of Cincinnati, Cincinnati, OH; ²Thermo Fisher Scientific, San Jose. CA
- WP 635 A Method for the Automated Determination of Early Eluting Oligonucleotide Drug Impurities Using IP-RPLC HRMS; Stilianos G. Roussis¹; Claus Rentel¹; ¹lonis Pharmaceuticals, Inc., Carlsbad, CA
- WP 636 Comparison of an Automated versus Manual SPE Sample Preparation Method for Improved Throughput during siRNA LC-MS Analysis; Babak Basiri¹; Thuy Tran¹; Mark Boggeri²; Mei Han¹; Fang Xie¹; Brooke Rock¹; ¹Amgen Inc., South San Francisco, CA; ²Tecan SP, Inc., Baldwin Park, CA
- WP 637 Probing the Role of Specific Amino Acid Residues that Contribute to the Novel Ribonuclease Activity of Cusativin by LC-MS; Priti Thakur¹; Patrick A. Limbach²; Balasubrahmanyam Addepalli²; ¹University of Cincinnati, Cincinnati, Ohio; ²University of Cincinnati, Cincinnati
- WP 638 A Highly Selective and Sensitive Analytical Method Using LC-MS/MS for Phosporothioate Oligonucleotides; Yasuko Tsukazaki¹; Naoto Senda¹; Mariko Harada-Shiba²; Fumito Wada²; Noriyuki Iwasaki³; Kaoru Karasawa³; ¹Shin Nippon Biomedical Laboratories, Ltd., Tsukuba, Japan; ²National Cerebral and Cardiovascular Center Research Institute, Suita, Japan; ³SCIEX, Shinagawa-ku, Japan
- WP 639 Charge Deconvolution and Automatic Sequence
 Matching for Oligonucleotides; Wilfred Tang¹; Marshall
 Bern¹; Rose D Lawler¹; James Moore¹; David Garby²;
 Nicholas Skizim²; ¹Protein Metrics Inc., Cupertino, CA;

 ²GreenLight Biosciences, Inc., Medford, MA
- WP 640 Detection of the Altered tRNA Modification Profiles in Primary and Metastatic Melanoma by LC-MS;

 Congliang Sun¹; Zalfa Abdel-Malek¹; Patrick A Limbach¹; Balasubrahmanyam Addepalli¹; ¹University of Cincinnati, Cincinnati, OH
- WP 641 Strategies for Bioanalysis of an Oligonucleotide and Chain-Shorted Metabolites from Human Plasma Employing LC-UV/MS/MS Detection; Ying Peng¹; Noah Post²; Moo-young Kim¹; Shabana Khatri²; Shannon Hall²; Fumin Li¹; ¹PPD, Middleton, WI; ²Ionis Pharmaceuticals, Inc., Carlsbad, CA

PEPTIDES: PTM IDENTIFICATION 642-675

- WP 642 Glycoproteomic Analysis using 213 nm Ultraviolet Photodissociation Mass Spectrometry; Edwin Escobar¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- WP 643 Simultaneous Glyco- and Phosphopeptide Enrichment by Phytic Acid-Modified Titanium(IV) Immobilized Metal Affinity Chromatography (PA-Ti-IMAC); Dylan Nicholas Tabang¹; Yusi Cui¹; Jillian Johnson²; Lingjun Li¹. ²; ¹Department of Chemistry, University of Wisconsin, Madison, WI; ²School of Pharmacy, University of Wisconsin, Madison. WI
- WP 644 Identification of Glutamic Acid Isomers Produced
 During Deamidation Through RDD Diagnostic
 Fragments; Jacob W Silzel¹; Yana Lyon¹; Dylan Riggs¹;
 Ryan R. Julian¹; 'UC Riverside, Riverside, CA
- WP 645 Evaluation of an Automated, Acidic pH Protein
 Digestion for Reduced Levels of Artificial Deamidation
 in Biotherapeutic Peptide Mapping Studies; Tom
 Buchanan¹; Ken Cook¹; Sara Carillo²; Silvia Millan Martin²;
 Dan Bach Kristensen³; Kevin Meyer⁴; Marc Geunder⁵;

- Rowan Moore¹; ¹Thermo Fisher Scientific, Runcorn, United Kingdom; ²National Institute for Bioprocessing Research and Training, Dublin, Ireland; ³Symphogen, Ballerup, Denmark; ⁴Perfinity, West Lafayette, Indiana; ⁵Thermo Fisher Scientific, Reinach, Switzerland
- WP 646 Proteomic Analysis of Arginine-Rich RNA Binding Proteins by Electron Transfer Dissociation Mass Spectrometry; Sean R Kundinger¹; Isaac Bishof¹; Duc M. Duong¹; Nicholas T. Seyfried¹; ¹Emory University, Atlanta, GA
- WP 647 Quantitative Proteomic Analysis of Histone-PTMs in Breast Cancer Stem Cells by Multiple Reaction Monitoring; Seung Ju Moon¹; Byoung-Kyu Cho¹; Nu-Ri Im¹; Eugene C. Yi¹; ¹Department of Molecular Medicine and Biopharmaceutical Sciences, Graduate School of Convergence Science and Technology, Seoul National University, Seoul, South Korea
- WP 648 Novel Rabbit Monoclonal Antibodies for Profiling of Serl Thr O-GlcNAc modified proteins; Matthew D. Fry¹; Rami Najjar¹; Yiying Zhu¹; Devin K Schweppe²; Steven Gygi²; Matthew P Stokes¹; ¹cell Signaling Technology, Danvers, MA; ²Harvard Medical School, boston, MA
- WP 649 Combining Proteomics Strategies to Study
 Polyglutamylated Peptides for Tubulin Analysis; Thibault
 Chaze¹; Mathieu Dupré¹; Elise Warter²; Serge Bonnefoy²;
 Jujimon A.s³; Carsten Janke³; Philippe Bastin²; Mariette
 Matondo¹; Julia Chamot-Rooke¹; ¹Mass Spectrometry
 for Biology Unit, Institut Pasteur, CNRS USR2000, Paris,
 France; ²Trypanosome Cell Biology Unit, Institut Pasteur,
 INSERM U1201, Paris, France; ³Regulation of Microtubule
 Dynamics and Functions Unit, Institut Curie, CNRS
 UMR3348, Orsay, France
- WP 650 Delineation of Glycopeptides and D-Amino Acid Containing Peptides (DAACPs) with Variant PTM Structure or Localization by High-Resolution FAIMS and ETD; Matthew A Baird¹; Alexandre A Shvartsburg¹; ¹Wichita State University, Wichita, KS
- WP 651 Large-Scale Profiling of Mannose-6-phosphate Glycoproteome from Human Cells by Ti(IV)-IMAC;

 Danqing Wang¹; Junfeng Huang²; Yuan Liu²; Yusi Cui¹;

 Jillian Johnson²; Lingjun Li¹.²; ¹Department of Chemistry,

 University of Wisconsin-Madison, Madison, WI 53706;

 2School of Pharmacy, University of Wisconsin-Madison,

 Madison, WI 53705
- WP 652 Optimized EThcD Fragmentation Method for Confirmation of Isoaspartic Acid Peptides; Raghothama Chaerkady¹; Ben Niu¹; Keith Rickert¹; Sonja Hess¹;

 'MedImmune, Gaithersburg
- WP 653 Expanding the Glycoforms Detected in Complex Glycopeptide Datasets; Katalin F. Medzihradszky¹; Peter R. Baker²; Adam Pap¹; Zsuzsanna Darula¹; Robert Chalkley²; ¹Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary; ²UCSF, San Francisco, CA
- WP 654 Highly Efficient and Precise Glycoproteomic Analysis with Intelligent Technology; Weiqian Cao¹; Wenfeng Zeng²; Mingqi Liu¹; Chao Liu²; Biyun Jiang¹; Pan Fang¹; Huali Shen¹; Simin He²; Pengyuan Yang¹; ¹Fudan University, Shanghai, China; ²Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
- WP 655 A Novel, Fast Post Translational Modification Localization Algorithm for Targeted DIA Outperforming DDA on a Controlled Sample Set; Oliver M Bernhardt¹; Christian D. Kelstrup²; Tejas Gandhi¹; Lynn Verbeke¹; Alexander Hogrebe³; Dorte B. Bekker-Jensen²; Jesper V. Olsen³; Lukas Reiter¹; ¹Biognosys AG, Schlieren, Switzerland; ²Novo Nordisk Foundation Center for Protein Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; ³Novo Nordisk Foundation Center for Protein Research, Faculty



WP 656 Finding the Sweet Spot in SAX-ERLIC Mobile Phase for Simultaneous Enrichment of Glyco and Phosphopeptides; Yusi Cui¹; Ka Yang²; Dylan Nicholas Tabang²; Junfeng Huang²; Weiping Tang²; Lingjun Li²; ¹University of Wisconsin-Madison, Madison, WI; ²University of Wisconsin, Madison, Madison, WI

WP 657 RDD-MS Reveals the Isomerization Rate of Amyloid Beta and a Novel Cause for Alzheimer's Disease; Ryan R. Julian¹; Dylan Riggs¹; Tyler Lambeth¹; ¹University of California, Riverside, Riverside, CA

WP 658 Verification of Sulfotyrosine and 4-Hydroxyproline in Biotherapeutics; Oksana Tyshchuk¹; Christoph J. Gstöttner²; Dennis Funk³; Simone Simone Nicolardi²; Stefan Frost³; Felix Schumacher³; Manfred Wuhrer²; Michael Molhoj³; Vincent Larraillet³; ¹Roche Diagnostics GmbH, Penzberg, Germany; ²Leiden University Medical Center, Center for Proteomics and Metabolomics, Leiden, Netherlands; ³Roche Pharmaceutical Research and Early Development (pRED), Roche Innovation Center Munich, Germany

WP 659 Intergrated Mass Spectrometry Method Development for Arginine methylation Analysis; Chao Peng¹; Ping wu²;

¹National Center for Protein Science (Shanghai), Institute of Biochemistry and Cell biology, SIBS, CAS, Shanghai, China;
²National facility for Protein Science, Shanghai, China

WP 660 Comparison of Enrichment Strategies for the In-Depth Proteomics Analysis of ADP-Ribosylation Sites;

Alexandra F. Stripp¹; Sara C. Larsen¹; Ivo A. Hendriks¹;

Michael L. Nielsen¹; ¹Novo Nordisk Foundation Center for Protein Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

WP 661 Investigating Crosstalk between endogenous SUMOylation and ADP-Ribosylation in the Cellular Response to Oxidative Stress; Ivo A. Hendriks¹; Michael L. Nielsen¹; ¹Novo Nordisk Foundation Center for Protein Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

WP 662 Identification and Quantitation of Phosphopeptide
Positional Isomers using Trapped Ion Mobility
Spectrometry and PASEF; Chris Adams¹; Michael
Krawitzky¹; Katherine Tran²; Baozhen Shan²; Zac Anderson²;
Charles Farnsworth³; Matthew P Stokes³; Kimberly Lee³;
Shourjo Ghose⁴; Matthew Willetts⁴; Gary Kruppa⁴; ¹Bruker
Daltonics, San Jose, CA; ²Bioinformatics Solutions Inc.,
Waterloo, ON; ³Cell Signaling Technology, Danvers, MA;
¹Bruker Daltonics Inc., Billerica, MA

WP 663 Characterization and Discrimination of Sulfopeptides and Phosphopeptides in Positive Mode Mass Spectrometry; Maia Kelly¹; Justin Lawrie¹; Jiantao Guo¹; Eric D. Dodds¹; ¹University of Nebraska - Lincoln, Lincoln, NF

WP 664 Supercharging of Palmitoylated Peptides for Improved Electron Capture/Transfer Dissociation Tandem Mass Spectrometry; Nhat H.V. Le¹; John E. Crellin¹; Gabriela Grigorean¹; Brent R. Martin¹; Kristina Hakansson¹;

1 University of Michigan, Ann Arbor, MI

WP 665 Direct Identification and Site-Specific Profiling of S-Palmitoylation by Liquid Chromatography/Tandem Mass Spectrometry; John E. Crellin¹; Nicholas B. Borotto¹; Krisitina Hakansson¹; Brent R. Martin¹; ¹University of Michigan, Ann Arbor, MI

WP 666 Identification of γ-Carboxyglutamic Acid Modified Proteins in Triple Negative Breast Cancer Cells by Immunocapture and Data Dependent nanoLC-MS/MS; James McCardle^{1, 2}; Sarah Beaudin²; Leila Kokabee²; JoEllen Welsh^{1, 2}; *1School of Public Health, Rensselaer, NY; *2University at Albany-SUNY, Renssealer, NY 12144

WP 667 Identification of Human Chorionic Gonadotropin Glycoforms in Two Populations Using Improved Bottom-Up Analysis; Nicolas Eskenazi¹; Chiara Giangrande¹; Joêlle Vinh¹; ¹SMBP, ESPCI, PSL University, Paris, France

WP 668 Identifying the Range of Protein Post-Translational Modifications that have Temporal Rhythms in the CAM Plant Kalanchoe; Cheng Chen¹; Paul Abraham¹.²; Robert Hettich¹.²; ¹University of Tennessee, Knoxville, TN; ²Oak Ridge National Laboratory, Oak Ridge, TN

WP 669 Comprehensive Profiling of ADP-Ribosylation Sites Using Complementary Proteolytic Digestion and Precursor Fragmentation Strategies; Sara C Larsen¹; Ivo A. Hendriks¹; Michael L. Nielsen¹; ¹University of Copenhagen NNF CPR, Copenhagen N, Denmark

WP 670 Unstructured Regions are Hotspots of Arginine Dimethylation in Neurodegeneration-Linked Proteins;
Jeremy D. O'Connell¹; Janos Demeter¹; Marcus Kelly¹;
Nancie A. Mooney¹; Ran Cheng¹; Peter K. Jackson¹;
¹Stanford University, Palo Alto, CA

WP 671 Screening Spectra from Dimethylated Peptides Improve the Identification Rate of SUMOylation Sites by Orbitrap Mass Spectrometer; Fu-An Li¹; Yu-Hsiang Cheng¹; ¹Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

WP 672 **Database Search Strategies for Sulfopeptide Identification**; Hye Kyong Kweon¹; Andy T. Kong²;
Katherine E. Hersberger¹; Shijiao Huang¹; Yanzhuang
Wang¹; Alexey I. Nesvizhskii²; Philip C. Andrews¹; <u>Kristina</u>
<u>Hakansson</u>¹; ¹University of Michigan, Ann Arbor, MI;

²University of Michigan Medical School, Ann Arbor, MI

WP 673 Assessment of Chromatographic Separation and Fragmentation Behavior of Isobaric Phosphopeptides Using Data Independent Acquisition Mass Spectrometric Approaches; Christian A Doerig¹; Ludovic Gillet¹; Ulrike Kusebauch²; Dave Lee³; Robert L Moritz²; Anthony D Whetton³.⁴; Paola Picotti¹; Ruedi Aebersold¹.⁵; ¹Department of Biology, Institute of Molecular Systems Biology, ETH Zurich, Zurich, Switzerland; ²Systems Biology, Seattle, WA; ³Stoller Biomarker Discovery Centre, University of Manchester, Manchester, United Kingdom; ⁴The School of Medical Sciences and Manchester Academic Health Sciences Centre, University of Manchester, Manchester, United Kingdom; ⁵Faculty of Science, University of Zurich, Zurich, Switzerland

WP 674 Pinpointing Isomerization Sites in Human Lens Crystallin using IMS-MS; Hoi Ting Wu¹; Ryan R. Julian¹; ¹University of California, Riverside, Riverside, CA

WP 675 Identification of Cross-Linked Peptides and Oxidation Products in Lysozyme Subjected to Photo-Oxidation and Peroxyl Radical Oxidation; Michele Mariotti¹; Eduardo Fuentes-Lemus²; Camilo López Alarcón²; Per Hägglund³; Michael Jonathan Davies³; ¹University of Copenhagen, Copenhagen, Denmark; ²University of Chile, Santiago, Chile; ³University of Copenhagen, Denmark

PEPTIDES: TARGETED AND QUANTITATIVE ANALYSIS 676-703

WP 676 Blood Brain Barrier (BBB) Penetration of Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP) Glycosylated Peptides by 'Shotgun Microdialysis' Coupled with LC-MS3; Chenxi Liu¹; Mitchell J Bartlett²; Christopher Robert Apostol¹; Lajos Szabo¹; Robin Polt¹; Torsten Falk²; Michael L Heien¹; ¹Department of Chemistry and Biochemistry, The University of Arizona, Tucson, Arizona; ²Department of Neurology, The University of Arizona, Tucson, Arizona, Tucson, Arizona

WP 677 Targeted Quantification of Detergent-Insoluble RNA-Binding Proteins in Alzheimer's Diseases; Qi Guo¹; Eric B Dammer¹; maotian zhou¹; Marla Gearing¹; James J.

ATLANTA

- Lah¹; Allan I. Levey¹; Nicholas Seyfried¹; ¹Emory University, Atlanta, GA
- WP 678 Quantification of a Novel Peptide, CPT31, in Rat and Monkey Plasma by LC-MS; China Y. Lim¹; Sarah Meghan Kriger¹; Brandon Wilcock¹; Vamshi Manda¹; Brett Welch²; Erik Kish-Trier³; Scott Reuschel¹; Troy Voelker¹; ¹Covance, Salt Lake City, UT; ²Navigen, Inc., Salt Lake City, UT; ³ARUP Laboratories, Salt Lake City, UT
- WP 679 A Comparison Between MRM and PRM for the Quantitation of LEAP2 in Serum; Chelsea C. Boo¹; Ranjitha Gaddipati¹; Joseph S. Grimsby¹; Sonja Hess¹; ¹MedImmune, Gaithersburg, MD
- WP 680 Developing a Targeted Method for Monitoring Cytosolic Iron-Sulfur Cluster Assembly Pathway; Xiaorui Fan¹;
 William D. Barshop¹; Ajay A. Vashisht¹,²; Stephanie Leal³;
 James A. Wohlschlegel¹; ¹UCLA, Los Angeles, CA; ²The Genomics Institute of the Novartis Research Foundation,
 San Diego, CA; ³California State University-Long Beach,
 Long Beach, CA
- WP 681 Sub-Picogram Level Quantitation of Desmopressin in Small Volumes of Human Plasma Using a Trap-Elute Micro LC-MS System; Rahul Baghla¹; Khatereh Motamedchaboki¹; Remco van Soest¹; Lei Xiong¹; ¹Sciex, Redwood City, CA
- WP 682 A Potential Reference Measurement Procedure for Quantification of α-Synuclein in Biological Fluids; Julia Mateyka¹; Adam Cryar¹; Giles Drinkwater¹; Milena Quaglia¹; Guglielmo Verona²; Vittorio Bellotti²; Sylvain Lehmann³; ¹LGC Group, Teddington, United Kingdom; ²UCL, London, United Kingdom; ³CHU Montpellier, Montpellier, France
- WP 683 A Software Platform for Peptide Synthesis Quality Control by both LC-free MALDI-TOF and LC-ESI-QTOF Molecular Weight Determination; Anjali Alving¹; Eckhard Belau²; Waltraud Evers²; Anja Resemann²; Wulff Niedner²; Detlev Suckau²; ¹Bruker Daltonics Inc., Billerica, MA; ¹Bruker Daltonics, Bremen, Germany
- WP 684 Factors that Influence the Recovery of Hydrophobic Peptides during LC-MS Sample Handling; Moon Chul Jung¹; Kim Haynes¹; Markus Wanninger¹; ¹Waters Corporation, Milford, MA
- WP 685 Absolute Quantification of Targeted Host Cell Proteins (HCPs) in Biotherapeutics by Liquid Chromatography-Multiple Reaction Monitoring (LC-MRM) Method;

 Baibhav Rawal¹; Xnliu Gao²; Yan-Hui Liu²; ¹Merck & Co., Kenilworth, NJ; ²Merck & Co. Inc., Kenilworth, New Jersey
- WP 686 Sequential Windowed Acquisition of Reporter
 Masses for Quantitation-First Proteomics; William D.

 Barshop¹; Hee Jong Kim¹; Shima Rayatpisheh¹; James A.

 Wohlschlegel¹; ¹University of California Los Angeles, Los
 Angeles, CA
- WP 687 Gonadotropin-Releasing Hormones (GnRH)
 Quantitation in Brain and Plasma by LC-HRMS/MS;
 Claudio Medana¹; Federica Dal Bello¹; Michael Zorzi¹; Elisa
 Pastorello¹; Paolo Giacobini²; ¹University of Turin, Torino,
 Italy; ²Inserm, Lille, France
- WP 688 Developing Fit-for-Purpose LC-MS Based Quantitative Assays to Support Drug Discovery Activities for Cyclic Peptides; Rena N Zhang¹; Michelle R Robinson²; Komal Kedia²; Daniel Spellman²; ¹Merck & Co., Inc, West Point, PA; ²Merck & Co., Inc., West Point, PA
- WP 689 Detecting Low Abundance Proteins in the Complex Background of the Cochlea by Mass Spectrometry;
 Miguel Ramirez; Northwestern University, Chicago, IL
- WP 690 Quantification and Evaluation of Sample Preparation Techniques in the Determination of Dynorphin Opioid Peptides by LC-MS/MS (MRM); Karthik Chandu¹; Tony L Sahley²; Michael D Hammonds²; Masaru Miyagi³; David J Anderson⁴; ¹Cleveland State University, Cleveland, OH; ²School of Health Sciences; Cleveland State University,

- Cleveland, OH; ³Department of Pharmacology; Case Western Reserve University, Cleveland, OH; ⁴Department of Chemistry; Cleveland State University, Cleveland, OH
- WP 691 The Role of the Cytoplasmic Capping Enzyme on the Proteome Diversity; Bernice A. Agana¹; Sophie R. Harvey¹; Daniel R. Schoenberg¹; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH
- WP 692 Assay of Human Insulin by Liquid Chromatography High Resolution Mass Spectrometry; Kui Zeng¹; Jingyue Yang¹; Connie Ruzicka¹; ¹FDA, Saint Louis, MO
- WP 693 Retention Time Correction Method Utilizing Unspecified Peaks in MS Scans; Philip M Remes¹; Ping Yip¹; Romain Huguet¹; ¹Thermo Fisher Scientific, San Jose, CA
- WP 694 Targeted Top-down Mass Spectrometry for Characterization and Quantitation of Crustacean Hyperglycemic Hormones (CHHs) and CHH Precursor-Related Peptides; Yang Liu¹; Gongyu Li¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- WP 695 Investigations of Caenorhabditis elegans egl-3
 Mutants Reveal an Important Role in Neuropeptide
 Processing and a Significant Impact on Nocifensive
 Responses; Bruno Nkambeu¹; Jennifer Ben Salem¹.²; Dina
 N Arvanitis²; Francis Beaudry¹; ¹Universite de Montreal,
 St-Hyacinthe, QC; ²Institut des Maladies Métaboliques et
 Cardiovasculaires, INSERM UMR1048, Toulouse, France
- WP 696 Development of a high throughput hybrid MS assay for human insulin in clinical samples, using surrogate matrices; Michael A. Blackburn¹; Stuart McDougall¹; Stephen Gray¹; ¹Arcinova, Northumberland, United Kingdom
- WP 697 Verification of the Bladder Cancer Biomarker
 Candidates in Clinical Urine Specimens by a SISCAPAMRM Assay; Yi-Ting Chen¹; Meng-Kai Chou¹; Yung-Chin
 Hsiao¹; Ying-Hsu Chang²; Chien-Lun Chen²; Jau-Song Yu¹;
 Yu-Sun Chang¹; ¹Chang Gung University, Taoyuan, Taiwan;
 ²LinKou Chang Gung Memorial Hospital, Taoyuan, Taiwan
- WP 698 Podocalyxin and Podocin Multiplex Urine Analysis using Tandem Mass Spectrometry for the Evaluation of Podocyturia in Patients; <u>Tristan Martineau</u>¹; Michel Boutin¹; Anne-Marie Côté¹; Daniel Bichet²; Bruno Maranda¹; Christiane Auray-Blais¹; <u>*Université de Sherbrooke</u>, Sherbrooke, QC; <u>*Pôpital du Sacré-Cœur, Université de Montréal, Montréal, QC</u>
- WP 699 A Comparative Study on Peptide Quantitation between Traditional LC-MS/MS and microLC-MS/MS for Discovery DMPK; Yuanqiang Su¹; Meijuan He¹; Xinxin Wen¹; Xiaotong Li¹; Cheng Chen¹; Weimin Hu¹; Weiqun Cao¹; Lili Xing¹; Xin Zhang¹; Yi Tao¹; ¹WuXi AppTec, Shanghai, China
- WP 700 Towards Turnkey Targeted Proteomics Solutions using Internal Standard Triggered Acquisitions on Modified Orbitrap Mass Spectrometers; Sebastien Gallien^{1, 2}; Aaron S. Gajadhar³; Bhavin Patel⁴; Markus Kellmann⁵; Tabiwang N. Arrey⁵; Alexander Harder⁵; Romain Huguet³; Graeme McAlister³; Derek Bailey³; Shannon Eliuk³; Emily I. Chen¹; Yue Xuan⁵; Andreas Huhmer³; ¹Thermo Fisher Scientific, Precision Medicine Science Center, Cambridge, MA; ²Thermo Fisher Scientific, Paris, France; ³Thermo Fisher Scientific, Rockford, IL; ⁵Thermo Fisher Scientific, Bremen, Germany
- WP 701 Comparison of Targeted Proteomics Approaches on a TIMS-Q-TOF; Antoine Lesur¹; Pierre-Olivier Schmit²; Joseph Longworth¹; Gunnar Dittmar¹; ¹LIH, Luxembourg Institute of Health, Strassen, Luxembourg; ²Bruker Daltonique S.A., Wissembourg, France
- WP 702 Targeted Membrane Protein Quantification for Therapeutic Target Identification; Lei Guo; Sanofi, Cambridge, MA

WP 703 Development of a Very Sensitive LC-MS Assay to Quantitate Ultra Low Levels of GLP-1 Targeted Peptide Mimetics; Jennifer Luong¹; Jeremy Brassard¹; Alyssa Kabat¹; Eric Schnieder²; Allysen Meymaris¹; Steven Wiltshire¹; Jakal Amin¹; ¹Charles River Laboratories, Worcester, MA; ²ProLynx LLC, San Francisco, CA

PROTEINS: COMPLEXES/NON-COVALENT INTERACTIONS I 704-720

- WP 704 In-situ Chemical X-linking MS for Antibody-tractable
 Antigen identification; Kang Hyun Kim¹; Jung Hyeon
 Lee²; Seung Ju Moon¹; Kristine M. Kim²; Eugene C. Yi¹;
 ¹Department of Molecular Medicine and Biopharmaceutical
 Sciences, Graduate School of Convergence Science and
 Technology, Seoul National University, Seoul, South Korea;
 ²Division of Biomedical Convergence, College of Biomedical
 Science, Kangwon National University, Chuncheon, South
- WP 705 Multiplexed TMT-Based Interactomics Reveals
 Coordination of Proteostasis Network Remodeling
 and Mechanisms of Protein Quality Control; Madison T
 Wright'; Lars Plate'; 'Vanderbilt University, Nashville, TN
- WP 706 Revealing the Molecular Makeup of Rationally Designed Heteroligomeric Assemblies of Stable Protein 1;

 Nicholas Demarais; University of Auckland, Auckland, New Zealand
- WP 707 Thyroglobulin as a Model for Analysis of Protein Quality Control Dynamics; Madison T. Wright¹; Lars Plate¹;

 1 Vanderbilt University, Nashville, TN
- WP 708 TRIM28 as a Candidate Mutant p53 Interacting Partner in Cancer Cells; Mariel R Mendoza¹; Katherine Alexander¹; Enrique Lin Shiao¹; Charly Ryan Good¹; Benjamin A. Garcia¹; Shelley L. Berger¹; ¹University of Pennsylvania, Philadelphia
- WP 709 Analysis of the Lysosomal Membrane Interactome via Cross-Linking Mass-Spectrometry; Jasjot Singh¹; Srigayatri Ponnaiyan¹; Fatema Akter¹; Dominic Winter¹; ¹University of Bonn Institute of Biochemistry and Molecular Biology, Bonn, Germany
- WP 710 FBXO11 Network Identifies Novel Disease-Relevant Interaction with the Ubiquitin-Specific Protease USP28;

 Jonathan St-Germain¹; Etienne Coyaud¹; Estelle Laurent¹;
 Faith Yeung¹; Brian Raught¹; ¹Princess Margaret Cancer Centre, Toronto, ON
- WP 711 **Chaperone Activation and Client Binding of** a 2-Cysteine Peroxiredoxin as Determined by Crosslinking Combined with MS and Cryogenic Electron Microscopy; Karl A. T. Makepeace^{1, 2}; Filipa Teixeira^{3, 4, 5, 6}; Eric Tse⁷; Helena Castro^{4, 5}; Ben A. Meinen^{4,} 8; Leslie B. Poole9; James C. Bardwell3, 8; Ana M. Tomás4, ^{5, 6}; Evgeniy V. Petrotchenko¹⁰; Daniel R. Southworth⁷; Ursula Jakob³; Christoph H. Borchers^{1, 2, 10, 11}; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; ²Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; 3Department of Molecular, Cellular, and Developmental Biology, Ann Arbor, Michigan; 4i3S - Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Porto, Portugal; 5IBMC - Instituto de Biologia Molecular e Celular, Universidade do Porto, Porto, Portugal; 6ICBAS – Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto, Porto, Portugal; ⁷Department of Biochemistry and Biophysics, Institute for Neurodegenerative Diseases, University of California, San Francisco, CA; 8Howard Hughes Medical Institute, University of Michigan, Ann Arbor, Michigan; 9Wake Forest Baptist Medical Center, Winston-Salem, NC; 10 Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC: 11 Gerald Bronfman Department of Oncology. Jewish General Hospital, McGill University, Montreal, QC

- WP 712 Mass Spectrometry-Based Protein Footprinting Probes the Conformational Changes during Aβ42 Aggregation upon Binding to Novel Small Molecule Inhibitors; Saketh Chemuru¹; George Mathai²; Jong Hee Song¹; Michael L Gross¹; ¹Washington University, St.louis, MO; ²Sacred Heart College, Cochin, India
- WP 713 On the Possibility of an Idiosyncratic Role of Heparin as Anticoagulant: *in vitro* Deactivation of Factor Xa via Heparin-Assisted Autolysis; Chendi Niu¹; Cedric E. Bobst¹; Sergey Savinov¹; Igor A. Kaltashov¹; University of Massachusetts Amherst, Amherst, MA
- WP 714 Native Top Down Analysis of 184-218 kDa Protein
 Complexes Reveals the First Pentameric Viral Fibrils;
 Matthew V. Holt¹; Tao Wang¹; Nicolas Leon Young¹; Baylor
 College of Medicine, Houston, TX
- WP 715 Rapid and Automatable Desalting of Protein Complexes by Size Exclusion Chromatography for On-line Detection by Native Mass Spectrometry; Zachary VanAernum^{1, 2}; Florian Busch^{1, 2, 3}; Benjamin J. Jones^{1, 2}; Mengxuan Jia^{1, 2}; Vicki Wysocki^{1, 2, 3}; ¹Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio; ²Resource for Native Mass Spectrometry Guided Structural Biology, Columbus, OH; ³Campus Chemical Instrument Center, The Ohio State University, Columbus. Ohio
- WP 716 Investigating the Glycan Ligands of Siglecs through MS-Based Shotgun Glycomics; Heajin Park¹; Elena N Kitova¹; Jaesoo Jung¹; Emily Rodrigues¹; Matthew S. Macauley¹; John Klassen¹; ¹University of Alberta, Edmonton, AB
- WP 717 A Cross-Linking-Aided IP/MS Workflow Reveals Extensive Intracellular Trafficking in Time-Resolved, Signal-Dependent EGFR Proteome; Yue Chen¹; Mei Leng¹; Yankun Gao²; Jongmin Choi¹; Dongdong Zhan²; Jun Qin¹.²; Sung Yun Jung¹; Yi Wang¹,²; ¹Department of Biochemistry and Molecular Biology, Baylor College of Medicine, Houston, TX; ²National Center for Protein Sciences (Beijing), State Key Laboratory of Proteomics, Institute of Lifeomics, Beijing, China
- WP 718 Characterization of Essential Reprogramming Factors' Interaction Partner Dynamics during Cellular Reprogramming towards Pluripotency through Multiple Optimized Proteomics Approaches; Weixian Deng¹; William Barshop¹; **IUCLA**, Los Angeles**, CA**
- WP 719 Tandem Ion Mobility Coupled with Mass Spectrometry for Gas Phase Protein Unfolding Studies; LeRoy B Martin¹; Martin Palmer²; Dale A Cooper-Shepherd²; James I Langridge²; ¹Waters Corporation, Beverly, MA; ²Waters Corporation, Wilmslow, United Kingdom
- WP 720 Characterization of Protein Biotinylation Sites by Peptide-Based Immunoaffinity Enrichment; Yiying Zhu¹; Matthew D. Fry¹; Alissa J. Nelson¹; Jianmin Ren¹; Vicky Yang¹; Michael C. Palazzola¹; Charles L. Farnsworth¹; Matthew P. Stokes¹; Kimberly A. Lee¹; ¹Cell Signaling Technology, Danvers, MA

PROTEOMICS: QUANTITATIVE III 721-744

- WP 721 Integrated Quantitative Proteomics in Cardiac Regeneration for Cardiac Systems Biology; <u>Trisha Tucholski</u>¹; Ling Gao²; Kyle Brown¹; Yanlong Zhu¹; Jake Melby¹; Jianyi Zhang²; Ying Ge¹; ¹University of Wisconsin, Madison, WI; ²University of Alabama at Birmingham, Birmingham, AL
- WP 722 A "GeLC-MS"-Based Method for Label-Free Quantitative Proteomics of Bronchoalveolar Lavage Fluid following Diisocyanate Exposure; Brandon F. Law¹; Chen-Chung Lin¹; Justin M. Hettick¹; ¹NIOSH, Morgantown, WV



- WP 724 Development of Label Free Quantitative Method for Proteomics and its Validation through Interlab Study: Ki Na Yun^{1, 2}; Geul Bang^{1, 3}; Gun Wook Park¹; Heeyoun Hwang¹; Hongkyeong Jung¹; Hye-Jung Kim⁴; Eugene Lee⁵; Yong-In Kim⁵; Jeong Hee Moon⁶; Sungho Yun⁷; Jong Shin Yoo¹; Jin Young Kim¹; ¹Biomedical Omics Group, Korea Basic Science Institute, Cheongju, South Korea; ²Department of Chemistry, Sogang University, Mapo-gu, South Korea; 3College of Pharmacy, Korea University, Jochiwon, South Korea; 4New Drug Development Center, KBIO Osong Medical Innovation Foundation, Cheongju, South Korea; 5Korea Research Institute of Standards and Science, Yuseong-gu, South Korea; 6Disease Target Structure Research Center, KRIBB, Yuseong-gu, South Korea; ⁷Drug and disease target research team, Korea Basic Science Institute, Cheongju, South Korea
- WP 725 Isotope Dilution Mass Spectrometry for Quantification of Influenza Proteins in Various Influenza Virus Preparations and Vaccines; Wanda I Santana¹; Lidoshka Marc¹; Hans C Cooper¹; John R Barr¹; Tracie L Williams¹; ¹Centers for Disease Control and Prevention. Atlanta. GA
- WP 726 A Proteomic-Based Pathway Analysis Identifies
 Bmi1 as a Potential Modulator for Tumor Growth and
 Invasion in Triple Negative Breast Cancer; JungHun
 Lee¹; Bobae Shim²; Hyeyoon Kim¹,²; Han Suk Ryu²; Dohyun
 Han¹; ¹Proteomics core facility, Biomedical Research
 Institute, Seoul National University Hospital, Seoul, South
 Korea; ²Department of Pathology, Seoul National University
 Hospital, Seoul National University College of Medicine,
 Seoul, South Korea
- WP 727 Proteomics Investigation of Induced Obstructive Sleep Apnea (OSA) in Rat Atria using Mass Spectrometry;

 Devika Channaveerappa¹; Jacob C. Lux¹; Madhuri

 Jayathirtha¹; Cristiana Dumbraveanu¹; Brian K. Panama²;

 Costel C. Darie¹; ¹Clarkson University, Potsdam, NY;

 ²Masonic Medical Research Laboratory, Utica, NY
- WP 728 Quantitative Proteomics of Acetomicrobium hydrogeniformans OS1: Converting Glucose to H2;
 Janine Y. Fu¹; Lauren Cook¹; Farzaneh Sedighian¹; Matthew Maune²; Ralph S. Tanner²; Michael J. McInerney²; Joseph A. Loo¹; Robert P. Gunsalus¹; Rachel R. Ogorzalek Loo¹;
 ¹University of California Los Angeles, Los Angeles, CA;
 ²University of Oklahoma, Norman, OK
- WP 729 A Comprehensive Characterization of Proteome in Sz. Pombe DJ-1 Homologs: a Preliminary Study; aline De Lima Leite^{1, 2}; Kaleb Jones¹; Eli Riekeberg¹; Mark Wilson^{1, 2}; Robert Powers^{1, 2, 3}; ¹University of Nebraska Lincoln, Lincoln, NE; ²Nebraska Center for Integrated Biomolecular Communication, University of Nebraska-Lincoln, Lincoln, Nebraska; ³Redox Biology Center, University of Nebraska-Lincoln, Lincoln, Nebraska
- WP 730 Meltome Atlas Thermal Proteome Stability across the Tree of Life; Anna Jarzab1; Nils Kurzawa2; Thomas Hopf3; Matthias Moerch⁴; Jana Zecha¹; Niels Leijten⁵; Eva Musiol⁶; Melanie Maschberger³; Gabrielle Stoehr³; Charlotte Daly¹; Tobias Schmidt¹; Julia Mergner¹; Britta Spanier⁷; Angel Angelov4; Thilo Werner8; Marcus Bantscheff8; Mathias Wilhelm¹; Martin Klingenspor⁶; Simone Lemeer⁹; Wolfgang Liebl4; Hannes Hahne3; Mikhail Savitski10; Bernhard Kuster1; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; 2Genome Biology Unit, EMBL Heidelberg, Heidelberg, Germany; 3OmicScouts GmbH, Freising, Germany; ⁴Department of Microbiology, Technical University of Munich, Freising, Germany; ⁵Netherlands Proteomics Center, Utrecht, Netherlands: ⁶Chair of Molecular Nutritional Medicine, Technical University of Munich, Freising, Germany; ⁷Molecular Nutrition Unit. Technical University of Munich. Freising. Germany; & Cellzome, a GSK company, Heidelberg, Germany; 9Netherlands Proteomics Center, Utrecht,

- Netherlands; ¹⁰Genome Biology Unit, EMBL Heidelberg, Germany, Heidelberg, Germany
- WP 731 Doxorubicin-Induced Changes in the HLA Peptidome Determined using Tandem Mass Tags; Patrick Murphy¹; Prathyusha Konda¹; Joao A. Paulo²; Heiko Schuster³; Daniel J Kowalewski³; Youra Kim¹; Derek R Clements¹; Michael Giacomantonio¹; Stefan Stevanović³; Steven P Gygi²; Shashi Gujar¹; ¹Dalhousie University, Halifax; ²Harvard Medical School, Boston, MA; ³Tuebingen University, Tuebingen, Germany
- WP 732 Various Gonadotrohin Amounts Have Different Influence on the Secretom of human Granulosa and KGN Cells; Tanja Panic-Jankovic¹; Ulrike Resch²; Goran Mitulovic¹; 1Medical University of Vienna, Vienna, Austria; 2Medical University of Vienna, Vienna, Austria
- WP 733 Quantitative Analysis of Chromatin Bound Metabolic Enzymes by High Resolution Mass Spectrometry;

 Katja Parapatics¹; Jung-Ming George Lin².³; Sara Sdelci²; Andre C. Müller²; Stefan Kubicek².³; ¹CeMM-Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria; ²CeMM-Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria; ³Christian Doppler Laboratory for Chemical Epigenetics and Antiinfectives, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria
- WP 734 Data Analysis for Accurate Label-Free Quantitation:
 Detection of and Correction for Co-Eluting Peptides;
 Wenzhu Zhang¹; Brian T. Chait¹; ¹The Rockefeller
 University, New York, NY
- WP 735 Optimizing Injection Time Predictions to Improve Isobaric Reagent Reporter Ion Yield during Multiplexed Quantitative Proteomic Experiments; Craig Braun¹; Ryan Kunz¹; Alison Erickson¹; Steven P Gygi²; Brian Erickson¹; ¹/Q Proteomics LLC, Cambridge, MA; ²Harvard Medical School, Boston, MA
- WP 736 Reporter Ion Cross-Channel Signals in TMT

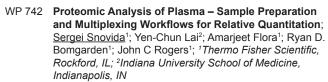
 Multiplexing for the Carrier/Reference Strategy; Paul

 Stemmer¹; Nicholas J. Carruthers¹; Joseph A Caruso¹;

 David M. Lubman²; Zhijing Tan²; ¹Wayne State University,

 Detroit, MI; ²University of Michigan, Ann Arbor, MI
- WP 737 MRM Based Characterization of the Effect of HIV Infection and Methamphetamine Exposure on Human Monocyte Derived Macrophages; Sarah C. Zieschang¹; Shulei Lei¹; Emma Harwood¹; Katarzyna Lech¹.²; Spencer Marshall Jaquet¹; Brenda Morsey¹; Howard S. Fox¹; Pawel Ciborowski¹; ¹University of Nebraska Medical Center, Omaha, NE; ²Faculty of Chemistry, Warsaw University of Technology, Warsaw, Poland
- WP 738 MS Based Proteomics Reveals Differentially Regulated Proteins in Temozolomide Resistant Glioma; Milan V.

 Teraiya¹.²; Helene Perreault¹; Vincent C. Chen³; ¹University of Manitoba, Winnipeg, MB; ²Brandon University (Visiting Student), Brandon, Manitoba; ³Brandon University, Brandon, Manitoba
- WP 739 Quantitative Proteomics of Differential Protein Expression in USP24 Depleted Systems; <u>Joanne Y Chan</u>^{1, 2}; John Le²; Lihua Jiang¹; Ruiqi Jian¹; Michael Snyder¹; Feng Gong²; ¹Stanford University, Stanford, CA; ²University of Miami Miller School of Medicine, Miami, FL
- WP 740 Targeted Proteomic Analysis of Small GTPases in Murine Adipogenesis; Yen-Yu Yang¹; Ming Huang²; Yinsheng Wang²; ¹University of California Riverside, Riverside, CA; ²University of California, Riverside, Riverside, CA
- WP 741 A Filter-Assisted Approach for Rapid Proteomic Sample Quality Estimation; <u>Jair T Montford</u>¹; Wenjing Peng¹; Jingfu Zhao¹; Aiying Yu¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX



- WP 743 Benchtop Instrument for Performing Hands-Free, Standardized Sample Preparation for Quantitative Proteomic Analyses; <u>Greg A. Foster</u>¹; Woong Kim¹; Ryan D. Bomgarden²; Suzanne M. Smith²; Daniel Lopez-Ferrer¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Rockford, IL
- WP 744 A Standardized Workflow for Tandem Mass Tags™ (TMT™) Based Proteomic Quantification Yields Improved Performance, Reproducible Quantitation, and Throughput Efficiency; Aaron Robitaille¹; Ryan D. Bomgarden²; Amarjeet Flora²; Sergei Snovida²; Rosa Viner¹; Daniel Lopez-Ferrer¹; Andreas Huhmer¹; John C Rogers²; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Rockford, IL

SMALL MOLECULES: QUANTITATIVE ANALYSIS 745-769

- WP 745 High-Throughput Quantitative Measurement of Acetylsalicylic Acid, Salicylic Acid and Omeprazole in Human Plasma using LC-MS/MS; Jingduan Chi¹; Fumin Li¹; ¹PPD Inc, Madison, WI
- WP 746 Multivariate Approach to On-Line Supercritical Fluid Extraction Supercritical Fluid Chromatography Mass Spectrometry Method Development; Alison P Wicker¹; Kenichiro Tanaka²; Masayuki Nishimura³; Vivian Chen³; Tairo Ogura²; William Hedgepeth³; Kevin A. Schug¹; ¹University of Texas at Arlington, Arlington, TX; ²Shimadzu Corporation, Nakagyo-ku, Japan; ³Shimadzu Scientific Instruments, Inc. Innovation Center, Columbia, MD
- WP 747 Electrochemistry-Assisted Absolute Quantitation by Mass Spectrometry; Pengyi Zhao¹; Hao Chen¹; ¹New Jersey Institute of Technology, Newark, NJ
- WP 748 Development and Validation of a Simple and Rugged LC-MS/MS Method to Measure 17-Desacetyl Norgestimate in Human Plasma; Nick Peng¹; Ben Gaboury¹; Ardeshir Khadang¹; 'Axis Clinicals, Dilworth, MN
- WP 749 High Throughput MS Testing of APX001A in Rat Tissues; China Y. Lim¹; Nidhi Jaiswal¹; Ben Johnson¹; Lucie Loukotkova¹; Robert Mansbach²; Karen J. Shaw²; Scott Reuschel¹; Troy Voelker¹; ¹Covance, Salt Lake City, UT; ²Amplyx Pharmaceuticals, San Diego, CA
- WP 750 Determination of Latanoprost and Latanoprost Free Acid in Plasma by LC-MS/MS Using Electrospray and UniSpray; Matej Simek^{1, 2}; Tereza Foglová¹; Petr Šulc¹; Martina Hermannová¹; Vladimír Velebný¹; ¹Contipro, Dolni Dobrouc, Czech Republic; ²Palacký University, Olomouc, Czech Republic
- WP 751 Overcoming Challenges to Develop a Robust Method for Quantifying Urinary Mono-Hydroxylated Polycyclic Aromatic Hydrocarbons (OH-PAHs) by On-Line SPE-LC-MS; Yuesong Wang¹; Erin N. Pittman¹; Debra A. Trinidad¹; Hei Sio Ao¹; Antonia M. Calafat¹; Julianne C. Botelho¹; ¹CDC, Atlanta, GA
- WP 752 Development and Validation of an Analytical Method for Quantitation of Emtricitabine, Tenofovir, and Efavirenz in Mouse Tissues by UPLC-MS/MS; Jennifer A. Gilliam¹; Melanie A. Rehder Silinski¹; Brenda L. Fletcher¹; Reshan A. Fernando¹; Veronica G. Robinson²; Suramya Waidyanatha²; ¹RTI International, Research Triangle Park, NC; ²Division of the National Toxicology Program, NIEHS, Research Triangle Park, NC.
- WP 753 Ultrasensitive Quantification of Fluticasone Propionate and Salmeterol from Human Plasma Using UPLC/MS/

- MS; Michael D Jones¹; Nikunj Tanna¹; ¹Waters Corporation, Milford, MA
- WP 754 Development of a Rapid Method for the Quantification of Fidaxomicin from Biological Samples; Anthony Haag¹.

 2; Kathleen M Hoch¹.²; Sigmund J Haidacher¹.²; †Baylor College of Medicine, Houston, TX; ²Texas Children's Hospital, Houston, Texas
- WP 755 Analysis of Propylene Glycol in Rat Plasma after Derivatization using Liquid Chromatography Coupled with Tandem Mass Spectrometric Detection (LC-MS/MS); Changyu Quang¹; William C. Nethero¹; Donald B. Giroux¹; Liam Moran¹; Elizabeth A Groeber¹; ¹Charles River, Ashland. OH
- WP 756 Delivery Efficiency of Aerosolized Epoprostenol to the Lung through a Mechanical Ventilator Circuit; Paul S. Soma¹; Nicholas J. Wallbillich¹; Jhaymie L. Cappiello²; Gary L. Glish¹; ¹University of North Carolina at Chapel Hill, Chapel Hill, NC; ²Duke University Hospital, Durham, NC
- WP 757 Trace Level Analysis of Dithiothreitol in Complex Proteins by LC/MS/MS Analysis; Jeffrey M. Selenka¹; Christopher G. Ciptadjaya¹; Thomas Leitzinger¹; Jie Ding¹; PPD, Middleton, WI
- WP 758 A Rapid and Sensitive LC-MS/MS Method for Quantitative Analysis of GSK-3 Inhibitors in Mouse Plasma; Ruhan Wei¹; David Wald²; Aimin Zhou¹; ¹Cleveland State University, Cleveland, OH; ²Case Western Reserve University, Cleveland, OH
- WP 759 Using Labeling Probes and Isotope Tagging for Detection and Quantification of Short Chain Fatty
 Acids by LCMS in Biological Samples; Rikard Fristedt;
 Chalmers University of Technology, Gothenburg, Sweden
- WP 760 Investigation of Structure-Dependent Detection
 Limits for Phthalates, Nitrosamines, Alkylphenols and
 Aminoglycosides Extracted from Complex Sample
 Matrix Using LC-MS/MS; Peijun Tu; Intertek, Allentown, PA
- WP 761 Quantification of Tapentadol and Metabolites in Urine by Liquid Chromatography-Mass Spectrometry; Suraj Saraswat¹; Kamisha L Johnson-Davis^{1, 2}; ¹ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT; ²University of Utah Health Sciences Center, Department of Pathology, Salt Lake City, UT
- WP 762 Development of a Sensitive and Rugged LC(HILIC)-MS/MS Method for Pantothenic Acid in Human Plasma and Whole Blood Samples; Xiaodong Zhu¹; Jingguo Huo¹; Thomas Lloyd¹; Edward Wells¹; ¹Worldwide Clinical Trials, Austin, TX
- WP 763 Method Validation for the Determination of Novel Psychoactive Substances in Human Urine by Liquid Chromatography/High Resolution Mass Spectrometry; Amber Awad¹; Ana Celia Grenier¹; Lawrence J Andrade¹; ¹Dominion Diagnostics, North Kingstown, RI
- WP 764 A Fast and Simple Analysis of a Wide Range of Polar Compounds in Spent Media using Ultivo LC/TQ; Jennifer Cottine Hitchcock¹; Jordy J. Hsiao¹; Yanan Yang¹; ¹Agilent Technologies, Santa Clara, CA
- WP 765 Separation Efficiencies of PFP Columns in Reversed Phase Chromatography; Koji Suzuki¹; Hiroshi Oikawa¹; Nozomi Murayama¹; Hiromi Miyagawa¹; Masatoshi Akitake¹; Bruno Ogawa¹; Natsuki Saotome¹; Yukio Otsuka¹; Hideo Matsuoka¹; Atsushi Sato¹; ¹GL Sciences, Saitama, Japan
- WP 766 Quantitative Variability of Fat-Soluble Vitamins, Hormones, and Mycotoxin Content in Caged, Cage-Free, free-Range, Pasture Raised, and Home Raised chicken eggs; Jamie L. York¹; Kevin A. Schug¹; ¹The University of Texas at Arlington, Arlington, TX
- WP 767 LC/MS/MS Analysis for Restricted Chemicals in Textiles; Tetsuo Tanigawa¹; Natsuyo Asano²; Jun Watanabe²; Yin Ling Chew¹; Jun Xiang Lee¹; Jie Xing¹; Zhaoqi Zhan¹; ¹Shimadzu (Asia Pacific) Pte Ltd., Singapore, Singapore; ²Shimadzu Corporation, Nakagyo-ku, Japan



- WP 768 Modified Mass Barcoded AuNPs Signal Amplification for the Detection of Amphetamines with Laser Desorption Ionization Time-of-Flight Mass Spectrometer; <u>Liu-ti Wang</u>¹; He-Hsuan Hsiao¹; 'Department of Chemistry, National Chung Hsing University, Taichung City, Taiwan
- WP 769 A HILIC-MS Method to Quantitate a Phospholipid Adjuvant for Vaccines; Bin Deng¹; Carol Claus¹; Eric Yang¹; ¹Sanofi Pasteur, Toronto, ON

TOXICOLOGY 770-789

- WP 770 Untargeted Profiling of Toxicologically Relevant
 Metabolites: Case Study of Reactive Aldehydes; Loïc
 Mervant¹¹²; Robin Costantino³; Jean-François Martin³;
 Laurent Debrauwer³; Françoise Guéraud²; Emilien L

 Jamin³; ¹MetaboHUB-MetaToul, Toulouse, France; ²Toxalim
 (Research Centre in Food Toxicology) University of
 Toulouse, INRA, Toulouse, France; ³MetaboHUB-MetaToul,
 Toulouse. France
- WP 771 Optimization of Collision Cell Potentials for Analysis of Opiates and their Glucuronyl Metabolites in a Triple Quadrupole Mass Spectrometer; Bennett Kalafut¹;

 Jianyun Zhao¹; Harald Oser¹; ¹Thermo Fisher Scientific, San Jose, CA
- WP 772 Glucuronide Hydrolysis Optimization for Drugs Screening in Urine Using LDTD-MS/MS at 8 seconds per sample; <u>Serge Auger</u>¹; Pier-Luc Plante²; Jean Lacoursière¹; Pierre Picard¹; ¹Phytronix Technologies, Quebec, QC; ²Université Laval, Quebec, Quebec
- WP 773 Quantitative Swab Touch Spray Mass Spectrometry for Oral Fluid Drug Testing; Nicolas M. Morato¹; Valentina Pirro¹; Patrick W. Fedick¹; Stuart A. Kushon²; R. Graham Cooks¹; *Purdue University, West Lafayette, IN; *Neoteryx, Torrence. CA
- WP 774 Urine Pain Panel Drug Screen for 42 Analytes with Enzyme Hydrolysis and an Internal Hydrolysis Indicator in Each Patient Sample; Stephen D Merrigan¹; Gwendolyn A McMillin¹.²; ¹ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT; ²University of Utah Health Sciences Center, Department of Pathology, Salt Lake City, UT
- WP 775 Advancing Forensic DUID Screening with Mass Spectrometry; Oscar Cabrices¹; Pierre Negri²; Dean Fritch³; Melanie Stauffer³; Nadine Koenig³; Derrick Schollenberger³; Jennifer Gilman³; Adrian Taylor⁴; ¹SCIEX, Redwood Shores, CA; ²SCIEX, Redwood City, CA; ³Health Network Laboratories, Allentown, PA; ⁴SCIEX, Concord, ON
- WP 776 Streamlining Unknown Screening for Postmortem
 Analysis; Adrian Taylor¹; Oscar Cabrices²; Xiang He²;
 Dean Fritch³; Nadine Koenig³; Melanie Stauffer³; Derrick
 Schollenberger³; ¹SCIEX, Concord, ON; ²SCIEX, Redwood
 Shores, CA; ³Health Network Laboratories, Allentown, PA
- WP 777 Monitoring the Human Serum Albumin Adductome for Contact Allergens; Lorena Ndreu¹; Alister James Cumming²; Johan Eriksson¹; Margareta Törnqvist¹; Isabella Karlsson¹; ¹Department of Analytical Chemistry and Environmental Sciences (ACES), Stockholm University, Stockholm, Sweden; ²Department of Biochemistry and Biophysics, Stockholm University, Stockholm, Sweden
- WP 778 Mass Spectrometric Identification and Estrogenic Potential of cyclic Phenone Metabolites Formed in in vitro Assays with Fish Liver Slices; Jose Serrano¹; Richard C Kolanczyk²; Mark A Tapper²; Barbara R Sheedy²; Tylor J Lahren²; Patricia A Kosian²; Alena Kubatova³; ¹USEPA.ORD/NHEERL, Duluth, MN; ²USEPA.ORD/NHEERL, Duluth, Minnesota; ³University of North Dakota Department of Chemistry, Grand Forks, North Dakota

- WP 779 UHPLC-nanoESI-MSnMethod for Quantification of DNA Adducts from Meat Carcinogens Implicated in Colorectal Cancer; Dmitri Konorev¹; Lihua Yao¹; Robert Turesky¹; ¹Masonic Cancer Center, U of MN, Minneapolis
- WP 780 Evaluating the Tolerance Mechanism of Zebrafish Embryo to Spermidine Carbon Quantum Dots by Proteomics Analysis; YuJu Chen¹; Pang-Hung Hsu²; Han-Jia Lin²; ¹National Yang-Ming University, Taipei, Taiwan; ²National Taiwan Ocean University, Keelung, Taiwan
- WP 781 Presumptive and Definitive Analysis of Urine
 Antidepressants by Prelude LX-4 MD™ and Sciex
 4500 LC-MS/MS; Anita Dermartirosian¹; Edith Shahbol¹;
 Karin Thomassian¹; Shaun Rezaei¹; Asad Shah¹; ¹Quest
 Diagnostics, Inc., Valencia, CA
- WP 782 Quantitation of Total Carbamazepine and Carbamazepine Epoxide in Serum/Plasma on HPLC-MS/MS; Diane Ly¹; Kamisha L. Johnson-Davis¹.²; ¹ARUP Institute for Clinical and Experimental Pathology, Salt Lake City, UT; ²University of Utah Health Sciences Center, Department of Pathology, Salt Lake City, UT
- WP 783 Toxicological and Biochemical Changes Induced by Sub-Acute Exposure of Wistar Rats to Silver Nanoparticles using Soft Landing Ion Mobility Instrument; Subhayu Nayek¹; Guido F. Verbeck¹; ¹University of North Texas, Denton, TX
- WP 784 Small Molecules Automated Extraction from Human Breast Milk Using the Extrahera and the EVOLUTE Express CX Prior to LC-MS/MS Analysis; Mohamed Youssef1; Stephanie Marin1; Jillian Neifeld1; Jeremy Smith1; Mario Merida1; Elena Gairloch1; 1Biotage, Charlotte, NC
- WP 785 Quantitative Proteomic Analysis of Cardiac Endothelial Cells Treated with Doxorubicin; Xinzhu Pu¹; Steve Nick¹-²; Matthew Turner¹; Laura Bond¹; Kenneth Cornell¹; ¹Boise State University, Boise, ID; ²University of Arizona, Tucson,
- WP 786 Effects of DDE/Dieldrin on the Steroid Hormone
 Profile in Largemouth Bass (Micropterus Salmoides)
 Plasma; Mohammad-Zaman Nouri¹; Kevin J. Kroll¹; Nancy
 D. Denslow¹; ¹Department of Physiological Sciences and
 Center for Environmental and Human Toxicology, University
 of Florida. Gainesville. FL
- WP 787 Alternative Forensic Matrices: Evaluation of Simplified Workflow for Drugs of Abuse Extraction from Nail Samples Prior to LC-MS/MS Analysis; Katie-Jo Teehan¹; Lee Williams¹; Rhys Jones¹; Geoff Davies¹; Adam Senior¹; Helen Lodder¹; Alan Edgington¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited, Cardiff, United Kingdom
- WP 788 Using a LC/MSD XT Single Quadrupole and HILIC-Z
 Column for Sensitive and Reliable Detection of Potential
 Genotoxic Impurities; Patrick M Batoon¹; Kyle Covert²;

 ¹Agilent Technologies Inc., Santa Clara, CA; ²Agilent
 Technologies, Inc., Santa Clara, CA
- WP 789 Method Validation for Trace Phentermine in the Presence of High Methylamphetamine Concentration and Other Analytes in Human Urine by LC-MS/MS;

 Jianmei Wang¹; Jeremy Delao¹; ¹Spectrum Diagnostic Laboratories, Arlington, TX

THURSDAY POSTERS



Set up all Thursday posters 7:00 - 8:00 am

Odd-numbered posters present 10:30 - 11:30 am PLUS 12:30 - 2:30 pm

Even-numbered posters present 10:30 am - 12:30 pm PLUS 1:30 – 2:30 pm

Remove all Thursday posters 2:30 - 3:00 pm

Ambient Ionization: Applications II	001-032
Ambient Ionization: Fundamentals	
and Instrumentation	033-059
Carbohydrates II	060-085
Data-Dependent Acquisition	086-092
Data-Independent Acquisition	093-111
Disease Biomarkers II	
Drug Discovery/DMPK/ADME II	
Drug Metabolism: Quantitative Analysis	
Elemental Analysis: ICP/MS	
Elemental Analysis: Isotope Ratio MS	176
Exposomics Methodologies and Research	
Results	177-181
Food "omics" MS Characterization of Food	
and Nutritional Supplements II	
Glycoproteins II	204-224
Imaging MS: Disease Markers II	
Imaging MS: Method Development II	
Informatics: General, SRM, and DIA	
Ion Mobility: Applications III	273-294
Ion Mobility: Fundamentals	
Isotope Labeling and Fluxomics Applications	
LC/MS: Chromatography and Software II	
LC/MS: Sample Preparation II	
Lipids: ID and Structural Analysis	
MALDI: Applications	
MALDI: Fundamentals and Instrumentation	418-421
MALDI: Sample Preparation	
Metabolomics: Clinical Applications	
Metabolomics: General II	450-478
Metabolomics: Sample Preparation	479-482
Metabolomics: Untargeted Metabolite	
Profiling III	483-512
Microorganisms: Identification and	
Characterization	
Nanomaterials	
Nanoscale and Microfluidic Separations and MS	
Natural Products	
Nucleic Acids and Oligonucleotides II	
Peptides: Fragmentation Mechanisms	
Proteins: Complexes/Non-covalent Interactions II	618-635
Proteins: Conformation Analysis and	
Structural Biology	
Proteins: General and Membrane	
Proteins: PTMs II	
Proteomics: New Approaches II	
Proteomics: Quantitative IV	
Small Molecules: Quantitative Analysis II	750-777

AMBIENT IONIZATION: APPLICATIONS II 001-032

- ThP 001 Molecular Profiling of Cyanobacteria under Environmental Stimuli Using Laser Ablation Electrospray Ionization Coupled with Ion Mobility Separation Mass Spectrometry; Gessica Vasconcelos¹; Sylwia A Stopka²; Boniek G Vaz¹; Akos Vertes²; ¹Federal University of Goias, Goiania, Brazil; ²George Washington University, Washington, DC
- ThP 002 Accelerated Energetic Syntheses through the Use of Confined Volume Systems Generated by Ambient Ionization Sources; Patrick W Fedick; Naval Air Warfare Center, Weapons Division, Research Department, Chemistry Division, China Lake, CA
- ThP 003 Highly Sensitive and Rapid Screening for Pesticides using Direct Analysis in Real Time Triple Quadrupole Mass Spectrometry; He Cui¹; Yongyi Jiang²; Kerry Song³; Xiuzhen Yin¹.⁴; Tingting Han²; Jiale Xu³; Xiaokun Duan³; Charles C. Liu³; ¹Qingdao Customs District, Qingdao, China; ²Qingdao Future Test, Qingdao, China; ³ASPEC Technologies, Beijing, China; ⁴Qingdao University of Science and Technology, Qingdao, China
- ThP 004 Detection of Ricin and Abrin Toxin by Laboratory-Based and Portable Direct Analysis in Real-Time Mass Spectrometry (DART-MS); Jennifer W Sekowski¹; Debora Van Der Riet-van Oeveren²; Ad De Jong²; Alex Fidder²; Paul S Demond¹; Jacquelyn V Harris¹; Daan Noort²; ¹U.S. Army RDECOM Chemical & Biological Center, Aberdeen Proving Ground, MD; ²The Netherlands Organization, Rijswijk, Netherlands
- ThP 005 Solvent-Assisted Paper Spray Ionization Mass Spectrometry (SAPSI-MS) for the Analysis of Biomolecules and Biofluids; Alessandro Quaranta¹; Nicoló Riboni¹; Hitesh V Motwani¹; Nicklas Österlund¹; Astrid Gräslund¹; Federica Bianchi²; Leopold L Ilag¹;

 1 Stockholm University, Stockholm, Sweden; University of Parma, Parma, Italy
- ThP 006 Improved Sensitivity for Saccharides via In-Source Derivatization Using Coaxial Contained Electrospray Mass Spectrometry; Derik R. Heiss^{1, 2}; Abraham K. Badu-Tawiah³; ¹The Ohio State University, Columbus, OH; ²Battelle Memorial Institute, Columbus, OH; ³The Ohio State University, Columbus, OH
- ThP 007 Cross-Continental, Multisite Round Robin REIMS Study for the Evaluation of REIMS Fundamentals and Technology; Julia Balog¹; Pierre-Maxence Vaysse²; Tiffany Porta Siegel²; Martin Kaufmann³; Ala Amgheib⁴; Viktoria Varga¹; Andras Marton¹; Steven D Pringle⁵; John Rudan³; Ron M. A. Heeren²; Zoltan Takats⁴; ¹Waters Research Center, Budapest, Hungary; ²Maastricht Multimodal Molecular Imaging (M4I) Institute, Division of Imaging Mass Spectrometry, Maastricht, Netherlands; ³Queen's University, Kingston, ON; ⁴Imperial College, London, United Kingdom; ⁵Waters Corporation, Wilmslow, United Kingdom
- ThP 008 Molecular Characterization of Terminal Structures for Polycarbonates Using a Thermal Desorption/Pyrolysis DART-MS; Kenichi Yoshizawa¹; Chikako Takei¹; Sayaka Nakamura²; Hiroaki Sato²; ¹BioChromato, Inc., Fujisawa, Japan; ²National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan
- ThP 009 Improved Rapid Untargeted Screening Method for Veterinary Drug Residues in Animal Tissues Using Liquid Microjunction Surface Sampling Probe Mass Spectrometry; Laura Burns¹; David J. Borts¹. ²; ¹Interdepartmental Toxicology Program, Iowa State University, Ames, Iowa; ²Department of Veterinary Diagnostic & Production Animal Medicine, Iowa State University, Ames, IA



- ThP 010 Flavor release monitoring using direct analysis in realtime mass spectrometry on differentiate with respect to time; Motoshi Sakakura¹; Teruhisa Shiota¹; Takehito Sagawa²; ¹AMR, Inc., Tokyo, Japan; ²S&B foods Inc., Tokyo, Japan
- ThP 011 Revealing Photo-Thermal Stability of Pharmaceuticals and the Degradation Mechanism by Microwave Plasma Torch Mass Spectrometry; Shuanglong Wang¹; Wei Liu¹; Huanwen Chen¹; ¹East China University of Technology, Nanchang, China
- ThP 012 Electroextraction (EE) Coupled with Paper Spray Mass Spectrometry (PS-MS) for Selective and Sensitive Analyses of Target Analytes in Complex Samples; Rodinei Augusti¹; Victoria Silva Amador¹; Juliane Soares Moreira¹; Denise Versiane Monteiro de Sousa¹; Ricardo Mathias Orlando¹; ¹Federal University of Minas Gerais, Belo Horizonte, Brazil
- ThP 013 A Robust, Long-Lasting Microspray Metal Emitter with Nanospray Sensitivity for Proteomics; Sau Lan Staats¹; Anna Stoltzfus¹; Andris Suna¹; **Phoenix S & T, Inc, Chadds Ford. PA
- ThP 014 Quantitative Analysis of Linezolid in Human Plasma by DART-MS and its Application to a Pharmacokinetic Study; Lei Yin^{1,2,3}; Yixuan Feng^{1,2}; Jin Tong^{1,2}; Zhiqiong Guo^{1,2}; Yuyao Zhang^{1,2}; Xiaokun Duan⁴; Lifeng Xu⁴; Charles C. Liu⁴; Jingkai Gu^{*1,2}; ¹Jilin University, Changchun, China; ²Beijing Institute of Modern Drug Metabolism, Beijing, China; ³University of Arizona, Tucson, AZ; ⁴ASPEC Technologies, Beijing, China
- ThP 015 Reaction Acceleration at the Surface of Droplets;

 Yangjie Li¹; Zhenwei Wei¹; Yong Liu²; R. Graham Cooks¹;

 Department of Chemistry, Purdue University, West
 Lafayette, IN; 2Merck & Co., Inc., Rahway, NJ
- ThP 016 A Comparative Profiling of DHA-rich Oil Products by DESI and DART Mass Spectrometry; Kerry Song¹; Jiale Xu¹; Wen Zhou²; Jiang Zhou²; Wei Chen¹; Xiaokun Duan¹; Charles C. Liu¹; ¹ASPEC Technologies, Beijing, China; ²Peking University, Beijing, China
- ThP 017 Repeatability and Practicality of PESI/MS/MS-Based in vivo Real-Time Monitoring System for Hepatic/Brain Metabolites in Living Mice; Kei Zaitsu^{1, 2}; Yumi Hayashi^{1, 3}; Tasuku Murata⁴; Kazumi Yokota⁴; Tomomi Ohara²; Hitoshi Tsuchihashi²; Akira Ishii²; Koretsugu Ogata⁴; Hiroshi Taninata⁴; *In Vivo Real-Time Omics Laboratory, Institute for Advanced Research, Nagoya University, Nagoya, Japan; *Department of Legal Medicine and Bioethics, Nagoya University Graduate School of Medicine, Nagoya, Japan; *Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan; *Shimadzu Corporation, Kyoto, Japan
- ThP 018 Using Rapid Evaporative Ionisation Mass Spectrometry (REIMS) to Improve Efficiency and Add Capability in Pharmaceutical R&D; Paul Abu-Rabie; GSK R&D, Stevenage, United Kingdom
- ThP 019 Pre-Concentration and a Special Scan Function for More Sensitive and Stable Ambient Ionization Mass Spectrometry; Taoqing Wang¹; Linfan Li²; Mengtian Li¹; Huishan Li¹; Jae C Schwartz²; Anyin Li¹; Nicolas Heath¹; ¹University of New Hampshire, Durham, NH; ²Thermo Fisher Scientific, San Jose, CA
- ThP 020 Coated Blade Spray-High-Resolution Mass Spectrometry: A Versatile Tool for Sample Profiling and Screening of Controlled Substances in Complex Matrices; German Augusto Gómez-ríos¹; Robert Cody²; Nathaly Reyes-garcés¹; Frances Carroll¹; Gary Stidsen¹; David Bell¹; ¹Restek Corporation, Bellefonte, PA; ²JEOL USA, Inc., Peabody, MA

- ThP 021 Extractable Analysis of Heart Stem Using HPLC Q-Tof Mass Spectrometry Coupled with High Resolution Database and Library; Chang Jiang; , Chengdu, China ThP 022 Ion-Neutral Complex Mediated Benzyl Cation Transfer
- ThP 022 Ion-Neutral Complex Mediated Benzyl Cation Transfer and Proton Transfer of Protonated Benzyl Phenyl Sulfonein the Gas Phase; Yin Qi; Zhejiang University, Hangzhou, China
- ThP 023 Rapid Characterization of Saponins in Ginseng Species Roots by Liquid Extraction Surface Analysis Mass Spectrometry; Mei Tian¹; Yuangui Yang¹; Linnan Li¹; Li Yang¹.²; Xiaokun Duan³; Kerry Song³; Shujie Zou³; Echo Jia³; Charles.C Liu³; Zhengtao Wang¹.²; ¹Shanghai University of Traditional Chinese Medicine, Shanghai, China; ²Shanghai R&D Center for Standardization of Chinese Medicines, Shanghai, China; ³ASPEC Technologies, Beijing, China
- ThP 024 Analysis of Immunosuppressant Drugs directly from Whole Blood using PaperSpray Technology; Cornelia Leonie Boeser¹; Neloni R. Wijeratne¹; Mary L. Blackburn¹;

 1Thermo Fisher Scientific, San Jose, CA
- ThP 025 Sticky Paper Spray Ionization for Analysis of Powdered Analyte Grains; Praneeth Hettikankanange¹; Grant Klingler¹; Mason Laikupu¹; Daniel Austin¹; ¹Brigham Young University, Provo, UT
- ThP 026 Mechanistic Study of Organometallic Reactions by Online Mass Spectrometry Monitoring System; Xin Yan;
 Texas A&M University, College Station, TX
- ThP 027 Strain-Level Differentiation of Bacteria by Paper Spray Mass Spectrometry; Casey A. Chamberlain¹; Vanessa Y. Rubio¹; Timothy J. Garrett¹; ¹University of Florida, Gainesville. FL
- ThP 028 Areca Alkaloids Measured from Buccal Cells Using DART-MS Serve as Accurate Biomarkers for Betel Nut Chewing; Adrian Franke¹; Laura Biggs²; Joanne Y. Yew³; Jennifer F Lai⁴; ¹Univ of Hawaii Cancer Ctr, Honolulu, HI; ²University of Guam, Mangilao, Guam; ³Pacific Biosciences Research Center, University of Hawaii, Honolulu, hawaii; ⁴University of hawaii Cancer Center, Honolulu, Hawaii
- ThP 029 Microdroplet Fusion Chemistry for Charge State Reduction in Synthetic and Biological Polymers via Bipolar Dual Spray; John R Stutzman¹; Ryan M Bain¹; Sebastian Hagenoff²; William Hunter Woodward¹; John P O'Brien³; Michael Lesniak¹; ¹The Dow Chemical Company, Midland, MI; ²The Dow Chemical Company, Stade, Germany; ³The Dow Chemical Company, Lake Jackson, TX
- ThP 030 Application of the Micro Flow Ion Source with Cartridge Columns for Fast LC-MS/MS Analysis of Vitamin D Metabolites; Tomasz Bienkowski¹; Michał Szumski¹.²; Irmina Tomaszewska¹; Konrad Piotr Kowalski¹; Przemysław Kalicki¹; Michał Książkiewicz¹; ¹MS Ekspert Sp. z o.o, Gdańsk, Poland; ²Nicolaus Copernicus University, Torun, Poland
- ThP 031 Quality Control Aspects of the REIMS Technology;

 Andras Denes Marton¹; Richard Schäffer¹; Viktoria Varga¹;

 Tamas Karancsi¹; Lajos Godorhazy¹; Steven D Pringle²;

 Julia Balog¹.³; ¹Waters Research Center, Budapest,

 Hungary; ²Waters Corporation, Wilmslow, United Kingdom;

 ³Imperial College, London, United Kingdom
- ThP 032 SpiderMass Real-Time, Mini Invasive Analysis of Cancer: Towards in vivo Molecular Diagnostics of the Future; Nina Ogrinc¹; Philippe Saudemont¹; Yves-Marie Robin²; Julia Balog³; Dominique Tierny⁴; Jean-Pascal Gimeno¹; Zoltan Takats⁵; Michel Salzet¹; Isabelle Fournier¹; ¹PRISM Inserm U1192 University of Lille, Villeneuve D'ascq Cedex, France; ²Pathology Department, Centre Oscar Lambret, Lille, France; ³Waters Research Center, Budapest, Hungary; ⁴OCR, Villeneuve d'Ascq, France; ⁵Imperial College London, London, United Kingdom



AMBIENT IONIZATION: FUNDAMENTALS AND INSTRUMENTATION 033-059

- ThP 033 Unique Ion/Molecule Chemistry of N-Alkanes in the Flowing Atmospheric Pressure Afterglow Ionization Source; Brian Molnar¹; Sunil P Badal¹; Jacob T Shelley¹;

 ¹Rensselaer Polytechnic Institute, Troy, NY
- ThP 034 Visualization of Charged Droplets Ambient
 Gas Interactions and Entrainment Flows in
 Nanoelectrospray; Joel Chapman¹; Peter Kottke¹; Andrei
 Fedorov¹; ¹Georgia Institute of Technology, Atlanta, GA
- ThP 035 Wire Desorption-Glow Discharge/Electrospray Ionization/Mass Spectrometry for Rapid Characterization of Compounds with a Broad Range of Polarity and Boiling Point; Yuanlong Wang¹; Junsheng Zhang¹; Lin Liu¹; Liping Huang¹; Jentaie Shiea²; Wenjian Sun¹; ¹Shimadzu Research laboratory (Shanghai) Co. Ltd., Shanghai, China; ²Department of Chemistry, National Sun Yat-sen University, Kaohsiung, Taiwan
- ThP 036 Direct Mass Spectrometry Analysis Using In-Capillary Dicationic Ionic Liquid-Based *in situ* Dispersive Liquid-Liquid Microextraction and Sonic-Spray Ionization;

 Yueguang Lv¹; Qiang Ma¹; ¹Chinese Academy of Inspection and Quarantine, Beijing, China
- ThP 037 The Effects of Gas Flows and Discharge Pulse on Explosives Detection Using a Dielectric Barrier Discharge Ionization Source; Vadym Berkout; Smiths Detection, Edgewood, MD
- ThP 038 Atmospheric Pressure Dark-Current Argon Discharge Ionization with Comparable Performance to Direct Analysis in Real Time Mass Spectrometry; Teruhisa Shiota¹; Kanako Sekimoto²; Motoshi Sakakura¹; Mitsuo Takayama²; ¹AMR, Inc., Tokyo, Japan; ²Yokohama City University, Yokohama, Japan
- ThP 039 Sampling and Ionization Process in Scanning Probe Electrospray Ionization; Yoichi Otsuka¹; Bui Kamihoriuchi¹; Aya Takeuchi¹; Futoshi Iwata²; Takuya Matsumoto¹; ¹Osaka University, Toyonaka, Japan; ²Shizuoka University, Hamamatsu, Japan
- ThP 040 Inlet Ionization for High Speed Mass Spectrometry;

 Ellen Inutan^{1, 2}; Chuping Lee¹; Eric Davis¹; Georgios

 Makris¹; Frank Yenchick¹; Robert Roose¹; Sarah Trimpin¹.³;

 ¹Wayne State University, Detroit, MI; ²MSU-Iligan Institute

 of Technology, Illigan City, Philippines; ³Cardiovascular

 Research Institute, Wayne State University School of

 Medicine, Detroit, MI
- ThP 041 Surface Acoustic Wave Nebulization (SAWN) and Charge Independent Nano Electromechanical Mass Sensing (NEMS-MS) of Multi Mega-Dalton Particles; Szu-Hsueh Lai¹; Bogdan Vysotskyi²; Luis A Cubero Montealegre²; Martial Defoort²; Kavya Clement¹; Mohammad Abdul Halim¹; Sergio Dominguez-Medina¹; Sebastien Hentz²; Christophe Masselon¹; ¹Univ. Grenoble Alpes, CEA, Inserm, BIG-BGE, Grenoble, France; ²Univ. Grenoble Alpes, CEA, LETI, Grenoble, France
- ThP 042 An Optimized Jet Nebulization Geometry for LCMS; Chuck Jolliffe¹; Harikrishnan Sukumar¹; Marius Radu¹; Reza Javahery¹; ¹PerkinElmer Inc., Woodbridge, ON
- ThP 043 Fast Screening of Pesticides in Foods and Agricultural Products with Probe Electrospray Ionization (PESI)

 Tandem Mass Spectrometry; Zhenhe Chen¹; Satoshi Yamaki¹; Jing Dong¹; Yuki Hashi²; Naoki Hamada¹;

 ¹Shimadzu (China) Co., LTD., Beijing, China; ²Shimadzu (China) Co.,LTD., Shanghai, China
- ThP 044 Liquid Ionization with High-Repetition Rate μJ-Laser-Induced Airborne Plasma for Direct Mass-Spectrometric Analysis; Yi You¹; Andreas Bierstedt¹; Sebastian van Wasen¹; Gaby Bosc-Bierne¹; Michael G. Weller¹; Jens Riedel¹; 'Federal Institute for Materials Research and Testing (BAM), Berlin, Germany

- ThP 045 Solvent Assisted Surface Probe-Nanoelectrospray: A Modular Liquid-Extraction Based Tool for Combined Top-Down & Bottom-Up Proteomic Surface Analysis; Raul Villacob¹; Luke T. Richardson¹; Matthew Mulloy¹; Touradj Solouki¹; ¹Baylor University, Waco, TX
- ThP 046 Laser Desorption REIMS the Fundamentals and How they Dictate Applications and Automation; Emrys A Jones¹; Daniel Simon²; Tamas Karancsi²; Danielle McDougall³; Csaba Hajdu²; Richard Schaffer²; Julia Balog²; Steven D Pringle⁴; Zoltan Takats⁵; ¹Waters, Wilmslow, United Kingdom; ²Waters Research Center Kft., Budapest, Hungary; ³Manchester Institute of Biotechnology, University of Manchester, United Kingdom; ⁴Waters Corporation, Wilmslow, United Kingdom; ⁵Imperial College, London, United Kingdom
- ThP 047 Systematic CFD Study of Gas Transport in a Desorption Cell Coupling AFM and AP MS in a Multimodal Imaging Platform; Matthias Lorenz¹; Ryan Wagner²; Roger Proksch²; Olga S Ovchinnikova³; ¹University of Tennessee / Oak Ridge National Laboratory, Oak Ridge, TN; ²Oxford Instruments, Santa Barbara, CA; ³Oak Ridge National Laboratory, Oak Ridge, TN
- ThP 048 An Interface for Reproducible, Multi-shot Direct
 Analysis of Solid-phase Microextraction Samples; G.
 Asher Newsome¹; Alba Alvarez-Martin¹; Gwénaëlle Kavich¹;

 1Smithsonian Institution Museum Conservation Institute,
 Suitland, MD
- ThP 049 Internal Energy Deposition in Infrared Matrix-Assisted Laser Desorption Electrospray Ionization with and without the Use of Ice as a Matrix; Anqi Tu¹; David C. Muddiman¹.²; ¹FTMS Laboratory for Human Health Research, Department of Chemistry, North Carolina State University, Raleigh, NC; ²Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
- ThP 050 Two-Laser Ablation Electrospray Ionization Mass Spectrometry; Kelcey B. Hines¹; Remilekun O. Lawal¹; Fabrizio Donnarumma¹; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA
- ThP 051 in vivo Analysis of Plant Sap by Direct Sampling and Capillary Microsampling Electrospray Ionization Mass Spectrometry; Tina Tran¹; Laith Z. Samarah¹; Akos Vertes¹; ¹George Washington University, Washington, DC
- ThP 052 Key Factors Influencing Nano-Electrospray Ionization Efficiency of Tryptic Peptides from Fused Silica Emitters During Reversed-Phase Liquid Chromatography Separations; Joshua A Silveira¹; Gary Schultz²; Wei Wei³; Aran Paulus³; Eloy R. Wouters³;

 1 Thermo Fisher Scientific, San Jose, CA; 2 Munson Technology, Ithaca, NY; 3 Thermo Fisher Scientific, San Jose, CA
- ThP 053 The Effect of High Mass Resolving Power by Involving Sample Morphology in Linear TOF; Yi-Hong Cai;
 Genomics Research Center Academia Sinica, Taipei,
 Taiwan
- ThP 054 Characterization of a Novel Plasma-Ionization Source for Real-Time Breath Analysis; Christopher Gongar¹; Michael Wei¹; Robin H.J Kemperman¹; Richard A. Yost¹;

 1 University of Florida, Gainesville, FL
- ThP 055 Reactions and Fragmentation in a Microwave Plasma Jet Ambient Ionization Source; Kenyon Evans-Nguyen¹; Abigail Smola¹; Kayla M Whitehouse¹; Tiffany Matyja¹; Micheala Le Gendre¹; 'University of Tampa, Tampa, FL
- ThP 056 Strategies to Improve Protein Analysis by Desorption Electrospray Ionization; Andre Venter¹; Elahe Honarvar¹; Roshan Javanshad¹; Tara Maser¹; Frank Martin Beranek¹; ¹Western Michigan University, Kalamazoo, MI
- ThP 057 Development of a Cryo-Stage for LESA Mass Spectrometry – Towards Truly Native Surface Sampling of Proteins; Bin Yan¹; Adam J. Taylor¹; Josephine Bunch¹.²;

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- ¹National Physical Laboratory, Teddington, United Kingdom; ²Imperial College, London, United Kingdom
- ThP 058 Trace Level Detection of Gas Impurities Using
 Atmospheric Pressure Ionization Mass Spectrometry;
 Gregory Thier¹; Luke Kephart¹; Brian Regel¹; ¹Extrel CMS,
 Pittsburgh, PA
- ThP 059 Investigation of Gas Flow Effects and Space Charge in Atmospheric Pressure Interfaces; Philipp Krah¹; Laurent Bernier¹; Stephan Rauschenbach²; Julius Reiss¹; ¹Technical University Berlin, Berlin, Germany; ²University of Oxford, Oxford, United Kingdom

CARBOHYDRATES II 060-085

- ThP 060 High-Throughput Clinical Glycomics with Ultra High Resolution MALDI-FTICR-MS Reveals Pancreatic Cancer Disease Signatures; Gerda C.M. Vreeker¹; Randa g.h. Sawires¹; Simone Nicolardi¹; Marco R. Bladergroen¹; Jan Nouta¹; Wilma E. Mesker¹; Yuri E.M. van der Burgt¹; Rob A.E.M. Tollenaar¹; Manfred Wuhrer¹; ¹Leiden University Medical Center. Leiden. Netherlands
- ThP 061 Automatically Glycan Structural Determination with Logically Derived Sequence Tandem Mass Spectrometry; Chi-kung Ni¹; Shih-Pei Huang¹; Chia Yen Liew¹; Hsu-Chen Hsu¹; ¹Academia Sinica, Taipei, Taiwan
- ThP 062 Discrimination of Glycan Epimers via Generation of Unique Parent-Structure-Dependent Product Ions by Free Radical Chemistry and Mass Spectrometry; Jinshan Gao¹; Kimberly Fabijanczuk¹; Kaylee Gaspar¹; Rayan Murtada¹; ¹Montclair State University, Montcalir, NJ
- ThP 063 Laser Induced Fluorescence Imaging of the Electrospray for Quantitative N-Glycosylation Analysis of Monoclonal Antibodies by Capillary Electrophoresis Mass Spectrometry; Andras Guttman; Sciex, Brea, CA
- ThP 064 A Multi-Dimensional HPLC-MS Method for Heparin/ Heparan Sulfate Oligosaccharide Fraction; Hao Liu¹; Apoorva Joshi²; Pradeep Chopra²; Geert-Jan Boons^{2, 3}; Joshua S Sharp⁴; ¹University of Mississippi, Oxford, MS; ²University of Georgia, Athens, GA; ³Utrecht Univeristy, Utrecht, Netherlands; ⁴University of Mississippi, Oxford, MS
- ThP 065 Structure Modeling of Isomeric Ions of Pyridinylboronic Esters of Momo-, Di- and Oligosaccharides from IMS Q-TOF and Tandem Mass Spectrometry; Jun J Hu¹; Qidi Wu¹; Chengyi Xie¹; ¹Ningbo University, Ningbo, China
- ThP 066 Development of a Multiplatform Mass Spectrometry-Based Workflow for the In-Depth Structural Elucidation of Oligosaccharides and Polysaccharides; Juan J.

 Castillo¹; Ace G Galermo²; Matthew J Amicucci³; Eshani Nandita³; Carlito B Lebrilla³; ¹University of Davis, Davis, CA; ²University of California, Davis, Davis, CA; ³UC Davis, Davis, CA
- ThP 067 Detailed Glycosylation Analysis: Leukemic KG1a Cells as a Case Study Using Sequential Mass Spectrometry;

 David Ashline¹; Vernon Reinhold¹; ¹University of New Hampshire, Durham, NH
- ThP 068 Definitive Structural Assignment of Isomeric Glycans by Trapped Ion Mobility-Electronic Excitation Dissociation Tandem Mass Spectrometry; Juan Wei¹; Yang Tang¹; Mark E. Ridgeway²; Pengyu Hong³; Catherine E. Costello¹; Cheng Lin¹; ¹Boston University, Boston, MA; ²Bruker Daltonics Inc., Billerica, MA; ³Brandeis University, Waltham, MA
- ThP 069 Automated Identification and Quantitation of 2-AA
 Derivatized N-Glycans from Infliximab Using UHPLCOrbitrap-MS Analysis with SimGlycan Software;
 Ningombam Sanjib Meitei¹.²; Himani Gupta²; Arun Apte¹;
 Phil Widdowson³; Silvia Millán⁴; Sara Carillo⁴; Jonathan
 Bones⁴; Rowan Moore³; ¹PREMIER Biosoft, Palo Alto, CA;
 ²PREMIER Biosoft, Indore, India; ³Thermo Fisher Scientific,
 Hemel Hempstead, United Kingdom; ⁴National Institute for
 Bioprocessing Research and Training, Dublin, Ireland

- ThP 070 Characterization of Glycan Isomers Using Magnetic Carbon Nanoparticles as a MALDI Co-Matrix; Alireza
 Banazadeh¹; Mona Goli¹; Wenjing Peng¹; Reed Nieman¹; Hans Lischka¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- ThP 071 Isomeric Linkage Determination of Sialic acid on O-Glycopeptides Using O-Protease and LC-MS/MS;

 Jieqiang Zhong¹; Yifan Huang¹; Wenjing Peng¹; Yehia
 Mechref¹; ¹Texas Tech University, Lubbock
- ThP 072 Deciphering Key Protein Binding Elements within Short- and Medium-Length Heparin Oligomers Using Multidimensional Chromatography Followed by MS Analysis; Cedric Bobst¹; Igor A. Kaltashov¹; ¹University of Massachusetts Amherst, Amherst, MA
- ThP 073 Analysis of the CHO-S Glycocalyx via Electrospray Ionization with Tandem Mass Spectrometry; Amanda J
 Pearson¹; Elyssia S. Gallagher²; ¹Baylor Univeristy, Waco,
 TX; ²Baylor University, Waco
- ThP 074 A Novel Approach Coupling Electrophoresis with Mass Spectrometry for Identification and Characterization of Multicomponent Glycosaminoglycan Drugs; Anran Sheng¹; Xiaohui Xu¹; Lianli Chi¹; ¹Shandong university, Qingdao, China
- ThP 075 Simultaneous Determination of 18 Monosaccharide
 Using High Performance Anion-Exchange
 Chromatography Coupled with Pulsed Amperometric
 Detection and Tandem Mass Spectrometry; Feng Feng¹;
 Feng Zhang¹; ¹Institute of Food Safety, Chinese Academy of Inspection and Quarantine, Beijing, China
- ThP 076 Precise Sequencing of Glycosaminoglycan
 Tetrasaccharides by Reversed Phase Ion Pairing LC/MS
 and MSn Spectra Matching; Qing Guo¹; Vernon Reinhold¹;

 ¹University of New Hampshire, Durham, NH
- ThP 077 LC-MS/MS Approach for the Exploration of Glycosylation as a Gatekeeper for Successful Xeno Transplantation; Myung Jin Oh^{1,2}; Nari Seo^{1,2}; Jaekyoung Ko^{1,2}; Jinyoung Park^{1,2}; Xi-jun Yin³; Jjin-dan Kang³; Hyun Joo An^{1,2}; †Chungnam national university, Daejeon, South Korea; ²Asia-Pacific Glycomics Reference Site, Daejeon, South Korea; ³Yanbian University, Yanji, China
- ThP 078 GlyLipSILC Glycolipid Stable Isotope Labeling in Cell Cultures; Andrew Cho¹; Wenjing Peng¹; Yifan Huang¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- ThP 079 Investigation of Ganglioside Isomers to Reveal the Biological Mechanism of Breast Cancer Brain Metastasis Using Nano-ZIC-HILIC-LC-MS; Yifan Huang¹; Jieqiang Zhong¹; Wenjing Peng¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- ThP 080 Relative Quantification of Glycans in Yeast Using Metabolic Isotope Labeling with Isotopic Glucose by Mass Spectrometry; Jae-min Lim¹; Ji-yeon Kim²; Soo-hyun Choi²; ¹Changwon National University, Changwon, South Korea; ²Changwon National University, Changwon, South Korea
- ThP 081 Post-Column Chiral Addition Method for the Separation and Resolution of Common Monosaccharides; Zachary Wooke¹; Gabe Nagy¹; Lauren Barnes¹; Matthew Laing¹; Nicola L. B. Pohl¹; ¹Indiana University Bloomington, Bloomington, IN
- ThP 082 Multiplex Stable Isotope Dimethyl Labeling Coupled with MALDI-MS for Quantitative N-Glycomics; He Zhu¹; Cheng Ma¹; Peng George Wang¹; ¹Georgia State University, Atlanta. GA
- ThP 083 An Investigation of Ion Adduction for Enhancing Trisaccharide Isomer Separation and Collision Cross Section Identification through TWIMS Analysis; <u>Jessica Minnick</u>¹; Eric D. Dodds¹; ¹University of Nebraska Lincoln, Lincoln, NE
- ThP 084 Separation and Identification of Sulfated Glycosaminoglycans in Urine using Capillary



Electrophoresis and Tandem Mass Spectrometry; <u>Patience Sanderson</u>¹; Xiaorui Han²; Fuming Zhang²; Robert Linhardt²; I. Jonathan Amster¹; ¹University of Georgia, Athens, GA; ²Rensselaer Polytechnic Institute, Troy, NY

ThP 085 A Method for the Rapid Determination of Polysaccharide Structures; Eshani Nandita¹; Matthew J. Amicucci¹; Ace G. Galermo¹; Juan J. Castillo¹; Carlito B. Lebrilla¹; ¹UC Davis, Davis, CA

DATA-DEPENDENT ACQUISITION 086-092

- ThP 086 Deep Quantitative Phosphoproteomics by Data Independent Acquisition Mass Spectrometry; Reta Birhanu Kitata¹; Chia-Feng Tsai²; Pei-Yi Lin¹; Wai-Kok Choong³; Yun-Chien Chang¹; Bo-Shiun Chen¹.⁴; Alexey I. Nesvizhskii⁵; Ting-Yi Sung³; Yu-Ju Chen¹; ¹Institute of Chemistry, Academia Sinica, Taipei City, Taiwan; ²Pacific Northwest National Laboratory, Richland, WA; ³Institute of Information Science, Academia Sinica, Taipei City, Taiwan; ⁴Department of Chemistry, National Taiwan University, Taipei City, Taiwan; ⁵Department of Computational Medicine and Bioinformatics and Department of Pathology, Ann Arbor, Michigan
- ThP 087 Machine Learning on SpectroMine Results Applied to an Efficient Large-Scale Library Generation Experiment; Lynn Verbeke¹; Jan Muntel¹; Timothy Man¹; Tejas Gandhi¹; Aljaz Baumkircher¹; Oliver M. Bernhardt¹; Ian Lienert¹; Roland Bruderer¹; Lukas Reiter¹; ¹Biognosys AG, Schlieren, Switzerland
- ThP 088 Identification of Off-Target Protein-Small Molecule Interactions Using Cellular Thermal Shift Assay (CETSA) and Phase-Constrained Spectrum Deconvolution (ФSDM) MS Data Acquisition; Clifford Phaneuf¹; Antonius Koller²; Konstantin Aizikov³; Dmitry Grinfeld³; Arne Kreutzmann³; Daniel Mourad³; Oliver Lange³; Alexander A Makarov³; Lilu Guo¹; Harvey Lieberman¹; Aharon Cohen¹; Alexei Belenky¹; Alexander R Ivanov²; ¹Sanofi, Waltham, MA; ²Northeastern University, Boston, MA; ³Thermo Fisher Scientific, Bremen, Germany
- ThP 089 Peptide Identification Improvement on a Trapped-Ion-Mobility quadrupole-Time-Of-Flight Mass Spectrometer (TIMS-QTOF) by Optimized Parallel Accumulation Serial Fragmentation (PASEF) Acquisition; Markus Lubeck¹; Jens Decker¹; Andreas Germanus¹; Michael Krause¹; Stephanie Kaspar-Schoenefeld¹; Victor Fursey²; Oliver Raether¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ¹Bruker Daltonics Inc., Billerica, MA
- ThP 090 Mapping Protein Interactions Using Data-Dependent Acquisition without Dynamic Exclusion; Shen Zhang¹;
 Brett Larsen²; Cassandra Wong²; Anne-Claude Gingras²;
 ¹Lunenfeld-Tanenbaum Research Institute, Sinai Health
 System, Toronto; ²Lunenfeld-Tanenbaum Research
 Institute, Sinai Health System, Toronto, ON
- ThP 091 Development of Screening Method for Targeted and Undiscovered Per- and polyfluoroalkyl Substances in Surface Water on Q-TOF Mass Spectrometer; Jun Xiang Lee¹; Jie Xing¹; Shiau Hang Tee²; Timothy Yan Ann Lim³; Zhaoqi Zhan¹; ¹Shimadzu Asia Pacific, Singapore, Singapore; ²School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link SPMS-04-01, Singapore 627371, Singapore, Singapore; ³National University of Singapore, Singapore
- ThP 092 Mass Fractionation in the Survey Data Improve Protein Identification in Data Dependents Acquisition for Complex Proteome Samples; Faraz Rashid¹; Dipankar Malakar¹; Nirpendra Singh²; Manoj Pillai¹; ¹SCIEX, Gurgaon, India; ²Advanced Technology Platform Centre,RCB, Faridabad, India

DATA-INDEPENDENT ACQUISITION 093-111

- ThP 093 Quantitative Proteomic and Phosphoproteomic Elucidation of Cancer Aneuploidy; Alison M. Taylor¹; Wenxue Li²; Sejal Jain¹; Matthew Meyerson¹; Yansheng Liu². ³; ¹Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA; ²Yale Cancer Biology Institute, West Haven, CT; ³Department of Pharmacology, Yale University School of Medicine, New Haven, CT
- ThP 094 Ultra-High Resolution 2D-FTMS for Truly DIA Analysis of Challenging Systems; Christopher Andrew Wootton¹; Tomos E. Morgan¹; Bryan P. Marzullo¹; Yuko P. Y. Lam¹; Diana C. Palacio Lozano¹; Alina Theisen¹; Anisha Haris¹; Mark P. Barrow¹; Peter B. O'Connor¹; 'University of Warwick, Coventry, United Kingdom
- ThP 095 Low ppm Detection of Host Cell Proteins (HCPs) in Biotherapeutics with Optimised Orbitrap-Based UHPLC HRAM MS; Amy J Claydon¹; Tom Buchanan¹; Philip J. Widdowson¹; Janusz Debski¹; Andrew Williamson²; Rowan Moore²; **Thermo Fisher Scientific, Runcorn, United Kingdom; **Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- ThP 096 Accelerating DIA Studies to Extend Workflow Utility,
 Using Ultra-Fast Microflow LC Gradients; Christie
 Hunter¹; Nick Morrice²; Zuzana Demianova³; ¹SCIEX,
 Redwood City, CA; ²SCIEX, Warrington, United Kingdom;
 ³SCIEX, Darmstadt, Germany
- ThP 097 SWATH-MS for Quantification of Mass Isotopologue Distribution of Cellular Metabolites and Fragments Labeled with Isotopic 13C Carbon in Cyanobacteria; Damini Jaiswal¹; Charulata B Prasannan^{1,2}; John I Hendry¹; Pramod P Wangikar^{1,2,3}; ¹Department of Chemical Engineering, Indian Institute of Technology Bombay, Mumbai, India; ²DBT-Pan IIT Center for Bioenergy, Indian Institute of Technology Bombay, Mumbai, India; ³Wadhwani Research Center for Bioengineering, Indian Institute of Technology Bombay, Mumbai, India
- ThP 098 Designing Data Independent Acquisition Methods for Orbitrap Instruments; Léon Reubsaet^{1, 2}; Michael Sweredoski²; Annie Moradian²; Spiros D Garbis²;

 ¹Department of Pharmaceutical Chemistry, School of Pharmacy, University of Oslo, Oslo, Norway; ²California Institute of Technology, Pasadena, CA
- ThP 099 Rapid Proteome Analysis with Data-Independent Acquisition and Super-Rsolution Orbitrap Mass Spectrometry; Florian Meier¹; Arne Kreutzmann²; Daniel Mourad²; Konstantin Aizikov²; Dmitry Grinfeld²; André C Michaelis¹; Oliver Lange²; Alexander A Makarov²; Matthias Mann¹.³; ¹Max Planck Institute of Biochemistry, Martinsried, Germany; ²Thermo Fisher Scientific, Bremen, Germany; ³NNF Center for Protein Research University of Copenhagen, Copenhagen, Denmark
- ThP 100 Assessment of Type 2 Diabetes Based upon Quantification of Plasma Proteomes; Zhilong Lin^{1, 2}; Guixue Hou^{1, 2}; Siqi Li^{1, 2}; Rongli Zhao^{1, 2}; Huanzi Zhong^{1, 2}; Fangming Yang^{1, 2}; Huanming Yang^{1, 3}; Siqi Liu^{1, 2}; Yan Ren^{1, 2}; †BGI-Shenzhen, Shenzhen, China; ²China National GeneBank, Shenzhen, China; ³James D. Watson Institute of Genome Sciences, Hangzhou, China
- ThP 101 Identification and Quantification of Host Cell Proteins in Recombinant Therapeutic Proteins Using Data-Independent Acquisition Mass Spectrometry; Hongbin Zhu¹; David Keire¹; Hongping Ye¹; ¹FDA, St. Louis, MO
- ThP 102 Cysteine-DIA the Use of Cysteine-Containing Peptides to Increase the Protein Coverage in DIA; Muhammad Tahir¹; Arkadiusz Nawrocki¹; Martin Røssel Larsen¹; ¹Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark



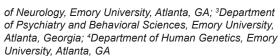
- ThP 103 Effect of Aerobic Exercise on PBMC Protein Profile in Insulin Resistant (IR) and Insulin Sensitive (IS)

 Participants; Kevin Paul Erazo Castillo¹; Sara Ahadi¹; Kevin Contrepois¹; Fredrik Edfors¹; Daniel Hornburg¹; Si Wu¹; Francois Haddad¹; Michael Snyder¹; ¹Stanford University, Stanford, CA
- ThP 104 Characterization of the Insolublome in Aging and Age-related Diseases Using Mass Spectrometry with Data-Independent Acquisitions (DIA/SWATH); Xueshu Xie¹; Manish Chamoli¹; Dipa Bhaumik¹; Kathleen Dumas¹; Renuka Sivapatham¹; Suzanne Angeli¹; Anja Holtz¹; Julie Andersen¹; Birgit Schilling¹; Gordon J. Lithgow¹; ¹Buck Institute, Novato, CA
- ThP 105 Elucidation of Organic Micropollutants Biodegradation
 Using Data-Independent Acquisition as Part of a
 Drinking Water Filter Process; Morgan Solliec¹; Veronika
 Storck¹; Benoit Barbeau¹; ¹Polytechnique Montréal,
 Montréal, QC
- ThP 106 Relative Quantitation of Aqueous Humor Proteins in a Juvenile Rabbit Model of Lensectomy Using Data Dependent and Data Independent Acquisition; Theodore R. Keppel¹; Jonathon B. Young¹; Christine M.B. Skumatz¹; Alexander E. Salmon¹; Rebekah L. Gundry¹; Iris S. Kassem¹; ¹Medical College of Wisconsin, Milwaukee, WI
- ThP 107 Employing Scanning SWATH to Support High Flow Proteomics Sample Acquisition; Nic Bloomfield¹; Gordana Ivosev¹; Fras Wasim¹; Stephen Tate¹; Christoph B Messner²; Vadim Demichev²; Spyros Vernardis²; ¹SCIEX, Concord, ON; ²The Francis Crick Institute, London, United Kingdom
- ThP 108 HLA-DO / H2-O Modulates the Diversity of the MHC class II Self Peptide Repertoire; Padma P Nanaware¹; Mollie M Jurewicz¹; John D Leszyk¹; Scott A Shaffer¹; Lawrence Stern¹; ¹University of Massachusetts Medical School, Worcester, MA
- ThP 109 Targeted Detection of Enzyme Active-site Peptides via Data-Independent Selective Infrared Multiphoton Dissociation Liquid Chromatography/Mass Spectrometry; Nicholas Borotto¹; Melanie Cheung-Seekit¹; Chunyi Zhao²; Andrew H. Lowell¹; Jennifer Schmidt¹; Kinshuk Srivastava³; Brandon T. Ruotolo⁴; David H. Sherman¹; Brent R Martin⁴; Kristina Hakansson¹; ¹University of Michigan, Ann Arbor, MI; ²University of Michigan, Ann Arbor, MI; ⁴Univeristy of Michigan, Ann Arbor, MI
- ThP 110 Use of DIA SWATH to Determine the Operational Envelope of a Synthetic Gene Circuit in Vibrio Natriegens; Mary Ashley Rimmer¹; W Judson Hervey, Iv²; Dagmar H Leary²; Robert G Egbert³; Enoch Yeung⁴; Gary J Vora²; ¹NRC Post-doctoral Fellow, US Naval Research Laboratory, Washington, D.C.; ²Center for Bio/Molecular Science & Engineering, US Naval Research Laboratory, Washington, D.C.; ³Pacific Northwest National Laboratory, Richland, WA; ⁴University of Santa Barbara, Santa Barbara, CA
- ThP 111 Fiber Supplements Induce Protein Variation on a
 Diverse Cohort: A Pilot Study; Jeniffer Quijada¹; Samuel
 M. Lancaster¹; Brittany Ann Lee¹; Daniel Hornburg¹; Sara
 Ahadi¹; Si Wu¹; Michael Snyder¹; ¹Stanford University
 School of Medicine, Stanford, CA, 94305

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- ThP 113 Identification of Candidate Biomarkers for Early Prediction of Prostate Cancer Progression Using Targeted Proteomics on Organ-confined Primary Tumors; Yuqian Gao¹; Yi-Ting Wang¹; Hui Wang¹; Denise Young²; Yongmei Chen²; Yingjie Song²; Athena A. Schepmoes¹; Thomas L. Fillmore¹; Tujin Shi¹; Wei-Jun Qian¹; Richard D. Smith¹; Sudhir Srivastava³; Jacob Kagan³; Albert Dobi²; Inger L. Rosner²; Isabell A. Sesterhenn⁴; Shiv Srivastava²; Gyorgy Petrovics²; Karin D. Rodland¹; Jennifer Cullen²; Tao Liu¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Walter Reed National Military Medical Center, Bethesda, MD; ³National Cancer Institute, Bethesda, MD; ⁴Joint Pathology Center, Silver Spring, MD
- ThP 114 Early Detection Hepatocellular carcinoma via MRM-MS with a Serum Protein-based Multi-marker panel: A Large-Scale Multicenter study; Injoon Yeo1; Hyunsoo Kim^{2, 3, 4}; Ji Hyeon Lee⁵; Young-Suk Lim^{6, 7}; Youngsoo Kim^{2, 5, 8}; ¹Departments of Biomedical Engineering, Seoul National University College of Medicine, Seoul, South Korea; ²Departments of Biomedical Engineering, Seoul National University College of Medicine, Jongro-gu, South Korea; ³Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, South Korea; ⁴Institute of Medical and Biological Engineering, Medical Research Center, Seoul National University College of Medicine, Seoul, South Korea; 5Department of Biomedical Sciences, Seoul National University College of Medicine, Jongro-gu, South Korea; 6Department of Gastroenterology, University of Ulsan College of Medicine, Seoul, South Korea; 7Liver center, Asan Medical Center, Seoul, South Korea; 8 Institute of Medical and Biological Engineering, Medical Research Center, Seoul National University College of Medicine, Jongro-gu, South Korea
- ThP 115 LESA Sampling of Human Non-Alcoholic Fatty Liver
 Disease Tissue for the Profiling of Liver Fatty Acid
 Binding Protein; James W Hughes¹; Iain B Styles¹; Patricia
 F Lalor¹; Helen J Cooper¹; ¹University of Birmingham,
 Birmingham, United Kingdom
- ThP 116 Top-Down Mass Spectrometry of Appendix Derived Synuclein Proteoforms and Their Role in Parkinson Disease; Bryan A Killinger¹; Zachary Madaj¹; Jacek W Sikora²; Nolwen Rey^{1, 3}; Alec J Haas¹; Yamini Vepa¹; Daniel Lindqvist^{4, 5}; Honglei Chen⁶; Paul M Thomas²; Patrik Brudin¹; Lena Brudin; Neil L Kelleher²; Viviane Labrie^{1, 7}; ¹Center for Neurodegenerative Science, Van Andel Research Institute, Grand Rapids, Michigan; ²Proteomics Center of Excellence, Northwestern University, Chicago, ILLINOIS; 3Paris-Saclay Institute of Neuroscience, Centre National de la Recherche Scientifique, Gif-sur-Yvette, France; ⁴Department of Clinical Sciences, Psychiatry, Faculty of Medicine, Lund University, Lund, Sweden; 5Psychiatric Clinic, Lund, Division of Psychiatry, Lund, Sweden; Department of Epidemiology and Biostatistics, College of Human Medicine, Michigan State University, East Lansing, Michigan; 7Centre for Addiction and Mental Health, Toronto, Ontario
- ThP 117 Identifying Neoantigens for Personalized Cancer Vaccines by Personalized de novo Peptide Sequencing;
 Rui Qiao¹; Ngoc Hieu Tran¹; Lei Xin²; Xin Chen²; Baozhen Shan²; Ming Li¹; ¹University of Waterloo, Waterloo, ON;
 ²Bioinformatics Solutions Inc., Waterloo, ON
- ThP 118 Novel Method for Screening of ADA-SCID in DBS, in Addition to 2nd Tier Methodology; Jessica B Hendricks; Centers for Disease Control and Prevention, Atlanta, GA
- ThP 119 Sex-Specific Protein Differences Linked to Alzheimer's Disease Risk Uncovered by a Coexpression-Regression Framework; Erica S Modeste¹; Eric B. Dammer¹; Duc M Duong¹; James J. Lah²; Allan I. Levey²; Aliza Wingo³; Thomas S Wingo^{2, 4}; Nicholas T. Seyfried^{1, 2}; **Department of Biochemistry, Emory University, Atlanta, GA; **2Department*



- ThP 120 Examining the Relationship between Diabetic Pregnancies and Kidney Disease in Offspring Using Urine Proteomics; Paulos Chumala¹; Tess Kelly¹; Brooke Thompson¹; Robin Erickson¹; Joshua Lawson¹; Roland Dyck¹; George S. Katselis¹; ¹University of Saskatchewan, Saskatoon, SK
- ThP 121 Combined Proteomic Analysis of Tissue and Matched Non-Depleted Serum in Identifying Potential Biomarkers for the Early Diagnosis of Prostate Cancer; Antigoni Manousopoulou¹; Margaritis Avgeris²; Brett Lomenick³; Stavros Tyritzis⁴; Andreas Scorilas²; Michael J. Sweredoski³; Annie Moradian³; Spiros D. Garbis³; ¹City of Hope, Duarte, CA; ²University of Athens, Athens, Greece; ³California Institute of Technology, Pasadena, CA; ¹Karolinska Institutet, Department of Oncology-Pathology, Stockholm, Sweden
- ThP 122 A Rapid, Solid-Phase Slide Approach for N-Glycan Profiling of Serum and Other Biofluids Using MALDI Imaging Mass Spectrometry Workflows; Calvin

 Blaschke¹; Alyson Black¹; Connor A West¹; Peggi M Angel¹; Anand Mehta¹; Richard R Drake¹; ¹Medical University of South Carolina. Charleston. SC
- ThP 123 Proteomics-Based Identification of Biomarkers for Non-Alcoholic Fatty Liver Disease; Bhuvaneswari Palaniappan¹; Janakipriya U Kathirvelu¹; Esther E Jebarani¹; Adaikkalam Vellaichamy¹; ¹Anna University, Chennai, India
- ThP 124 Influence of Traumatic Brain Injury on Bile Acid Profiles in the Brains of Rats; Amy N. W. Schnelle¹; Luke T. Richardson²; Fabrizio Donnaruma³; Ashok K. Shetty⁴; Kermit K Murray³; Touradj Solouki²; ¹Baylor University, Waco; ²Baylor University, Waco, TX; ³Louisiana State University, Baton Rouge, LA; ⁴Texas A&M Health Science Center, Temple, TX
- ThP 125 The Role of Extracellular Matrix in Mouse and Human Corneal Neovascularization; Cinzia Magagnotti¹; Marco Barbariga¹; Fabiana Vallone¹; Ettore Mosca²; Philippe Fonteyene¹; Federica Chiappori²; Luciano Milanesi²; Paolo Rama¹; Giulio Ferrari¹; Annapola Andolfo¹; ¹OSR, Milan, Italy; ²CNR, Milan, Italy
- ThP 126 The Role of Lipids in the Inception, Maintenance and Complications of Dengue Virus Infection; Carlos Fernando Odir Rodrigues Melo¹; Jeany Delafiori¹; Mohamad Ziad Dabaja¹; Diogo Noin de Oliveira¹; Tatiane Melina Guerreiro¹; Tatiana Elias Colombo²; Maurício Lacerda Nogueira²; Jose Luiz Proenca-Modena³.⁴; Rodrigo Ramos Catharino¹; ¹Innovare Biomarkers Laboratory, Campinas, Brazil; ²School of Medicine from São José do Rio Preto, São José do Rio Preto, Brazil; ³Laboratory of Study of Emerging Viruses, Campinas, Brazil; ⁴Bioagents, Campinas, Brazil
- ThP 127 A Multi-Omics Approach to Investigate the Plasma Proteome and Determine the Mechanistic Processes Involved in Different Respiratory Disease Conditions;

 <u>Chris Hughes</u>¹; Lee Gethings¹; Adam King¹; Robert Plumb²;

 **Waters, Wilmslow, United Kingdom; **Waters Corporation, Milford, MA
- ThP 128 Corrections for Racemization of L- and G-Glutamic Acid during 150°C Vapor-Phase Acid Hydrolysis Using differentially Labelled Internal Standards; Adrian R.

 Woolfitt¹; Anne E Boyer¹; Maria I Solano¹; Renato Lins²; John R. Barr¹; ¹CDC, Atlanta, GA; ²Battelle Atlanta Analytical Services, Atlanta, GA
- ThP 129 Primary Metabolomic and Lipidomics Profiling of Blood Plasma of Pregnant Patients with Systemic Lupus Erythematosus; Eun Mi Lee¹; Seung Mi Lee²; Soo Jin Park¹; Joong Shin Park²; Do Yup Lee¹; ¹Kookmin University,

- Seoul, South Korea; ²Seoul National University College of Medicine. Seoul. South Korea
- ThP 130 Improving the Diagnosis, Treatment, and Prevention of Diseases through Accurate and Reliable Laboratory Measurements with CDC Clinical Standardization Programs; Uliana Danilenko¹; Otoe Sugahara¹; Nasim Khoshnam¹; Lynn Collins¹; Krista Poynter¹; Ashley Ribera¹; Candice Ulmer¹; Hui Zhou¹; Hubert W Vesper¹; ¹CDC, Atlanta. GA

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- ThP 132 Identification of Potential Reactive Metabolite Protein Adducts Using a LC-MS Based Non-Targeted Global Metabolic Profiling Approach; Xiaomeng Shen¹; zhican wang¹; Ruta Phadnis¹; Dan A Rock¹; Brooke M Rock¹; ¹Amgen Inc.. South San Francisco. CA
- ThP 133 Unique Cysteine Conjugate Cyclization to Form Thiazolidine Metabolite of ABBV-4083; <u>Jianwei Shen</u>; AbbVie Inc., North Chicago, IL
- ThP 134 Leaching of a Plasticizer from Rubber Stoppers in Injectable Packaging Systems; Travis M Falconer¹; Allison M Taylor¹; ¹US Food & Drug Administration, Cincinnati, OH
- ThP 135 Tandem Mass Spectrometry Molecular Networking as a Strategy on Analyzing One-Pot Combinatorial Synthesis; Jiying Pei¹; Hsin-Hsiang Chung²; Chih-Yao Kao²; Tsung-Shing Andrew Wang²; Cheng-Chih Hsu²;

 ¹Guangxi University, Nanning, China; ²Department of Chemistry, National Taiwan University, Taipei, Taiwan
- ThP 136 A Sensitive and Selective LC-UV-MS Method for Determining Genotoxic Impurities in Drugs; Sylvia Grosse¹; Mauro De Pra¹; Frank Steiner¹; Kai Scheffler¹; Martin Samonig¹; ¹Thermo Fisher Scientific, Germering, Germany
- ThP 137 Quantitation of a Novel EphA2-Antibody Directed Nanotherapeutic in Tumor Bearing Mice by LC-MS/
 MS Analysis; Sarah A Schihl¹; John H Wilton¹; Andrew Sawyer²; Alexander Koshkaryev²; James Suchy²; Daryl C Drummond²; ¹Roswell Park Comprehensive Cancer Center, Buffalo, NY; ²Merrimack Pharmaceuticals, Cambridge, MA
- ThP 138 Assessing the Similarity between Non-biological Complex Drugs (NBCDs) by Using High Dimensional LC-MS Data Coupling with Hypothesis Testing; Pinhsuan Wang1; Hsin-yi Wu2; Chia-Lung Shih1; Victor Zgoda3; Mi-Chia Ma⁴; Chin-Shang Li⁵; Lung-Cheng Lin⁶; Pao-Chi Liao1; 1Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan; 2Mass Spectrometry Division, Instrumentation Center, College of Science, National Taiwan University, Taipei, Taiwan; 3Orekhovich Institute of Biomedical Chemistry, Moscow 119121, Russia, Moscow, Russia; ⁴Department of Statistics, National Cheng Kung University, Tainan, Taiwan; 5School of Nursing, The State University of New York, University at Buffalo, NY; ⁶ScinoPharm Taiwan, Ltd., Tainan, Taiwan
- ThP 139 Limited Proteolysis Coupled to Mass Spectrometry, a Novel Drug Target Deconvolution Strategy; Nigel Beaton¹; Roland Bruderer¹; Ilaria Piazza²; Paola Picotti²; Lukas Reiter¹; ¹Biognosys AG, Schlieren, Switzerland; ²ETH Zurich, Zurich, Switzerland
- ThP 140 Determination of Erythrocyte Membrane-Coated IR780 and DTX co-loading Polymeric Nanoparticles by LC-MSMS after Oral Administration in Rats; Qian Yang¹; Li Xiang²; ¹School of Pharmacy, Chengdu Medical College, Chengdu, China; ²PerkinElmer, Chengdu, China

ATLANTA

- ThP 141 Generic LC-MS Based Drug Assay to Measure Multiple Checkpoint Modulator Nanobody Levels in Mouse Syngeneic Tumor Models; Rameh Hafezi¹; Anandi Sawant²; Grigori Ermakov¹; Daniela Tomazela³; Xibei Dang¹; Dewan Hossain²; Alissa Chackerian²; Jeanne Baker³; Edward Bowman²; Wolfgang Seghezzi¹; Maribel Beaumont¹; ¹Department of Bioanlytics; PPDM, Merck & Co, Palo Alto, CA; ²Department of Discovery Oncology, Merck & Co, Palo Alto, CA; ³Department of Biology Discovery; CBLSO, Merck & Co, Palo Alto, CA
- ThP 142 Sub-pico gram Level Quantitation of Tiotropium Using the SCIEX Triple Quad™ 6500+ LC-MS/MS System;

 Rajendra Prasad Thatipamula¹; Dilipkumar Reddy Kandula¹; Manoj Pillai¹; Darshan Engineer²; Chandrika Nippani²; Salman Bagwan²; Bobby Virasingh²; ¹SCIEX INDIA, Gurugram, India; ²Phenomenex India Pvt Ltd, Hyderabad, India
- ThP 143 Quantification of Barnidipine in Human plasma usingTargeted LC-MS/MS; Chandrasekar Madhappan¹; Dilipkumar Reddy Kandula¹; Manoj Pillai¹; ¹SCIEX INDIA, Guruaram. India
- ThP 144 UHPLC-MS-MS Quantification of EC-18 in Rat, Dog and Monkey Plasma and Lymph and Human Plasma, and its Absorption and Pharmacokinetics; Soyoun Ahn¹; Ho-Hyun Yang²; Dong-Sub Jung¹; Chang-Hyun Yoo¹; Jae-Yong Lee²; Byoung-Gon Moon¹; Do Young Lee¹; Ki Young Sohn¹; *

 *IEnzychem Lifesciences, Seoul, South Korea; *2L2 Science Co., Ltd, Ansan, South Korea*
- ThP 145 An Ultrasensitive sub pg/mL Analysis of Tiotropium in Human Plasma by LC-MS/MS Using a Simple and Straight Forward Approach; Henk Van Der Lijke¹; Benjamin Steenge¹; Ben van Baar¹; ¹QPS Netherlands B.V., Groningen, Netherlands
- ThP 146 Application of Affinity Selection Mass Spectrometry in High-Throughput Binder Confirmation; Eric Shi¹; Cynthia Chiu¹; Steve Skinner¹; Jeffrey Messer¹; Eleanor Watts¹; Joseph Franklin¹; Jennifer Summerfield¹; Kenneth Lind¹; Cecil Rise¹; Gang Yao¹; ¹GSK, Cambridge, MA
- ThP 147 Evaluation of HRMS for Integrated Qualitative and Quantitative Analysis of Uridine and Its Metabolites in Adipocyte, Macrophage and Glioblastoma Cells; Anthony Triola¹; Eloisa Franco¹; Vedanga Arekar¹; Yuriko Root¹; Anima Ghosal¹; Dil Ramanathan¹; **IKean University, Union, NJ
- ThP 148 Bioanalysis of Tegaserod and Its Acyl Glucuronide Metabolite-M29.0 in Human Plasma (K2-EDTA) by LC-MS/MS; Zhixin Miao¹; Jeffrey Gus¹; Cynthia Carrasco¹; Edward Wells¹; ¹Worldwide Clinical Trials, Austin, TX
- ThP 149 Ultra-Fast Analysis of Intact Proteins Using SPE-TOF; Caroline S. Chu¹; Andy Gieschen²; Kevin McCann³; ¹Agilent Technologies, Santa Clara, CA; ²Agilent Technologies, Inc., Santa Clara, CA; ³Agilent Technologies, Wood Dale, IL
- ThP 150 LC-MS/MS with In-Source Collision Induced Dissociation for Direct Measurement of the 21 kDa Dendrimer Prodrug OP-101 in Human Urine; Dale Schoener¹; Jeff Cleland²; Forrest Helfrich¹; Karla Read¹; Jennifer Zarzoso¹; Rangaramanujam M. Kannan^{2, 3}; Mike Buonarati¹; **Intertek Pharmaceutical Services, San Diego, CA; **2Orpheris, Redwood City, CA; **3Center for Nanomedicine, Johns Hopkins School of Medicine, Baltimore. MD
- ThP 151 High Sensitivity Identification of Drug Metabolites with Increasing Ionization Efficiency using A Novel LC-ESI Interface and Q-TOF; Yohei Arao¹; Jeff Dahl¹; Yuka Fujito¹; ¹Shimadzu Scientific Instruments, Inc., Columbia, Maryland
- ThP 152 Cytochrome P450 Reaction Phenotyping by Targeted/ Non-targeted Metabolomics Workflow and Accurate Mass and High Resolution LC-QTOF-MS; Wei Chen¹; Bih Hsu¹; Patrick Lin¹; Xuejun Peng²; Guillaume Tremintin²;

¹Pharmaout Laboratory Inc., Fremont, CA; ²Bruker Daltonics, San Jose, CA

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 Qiangen Wu¹; Matthew S. Bryant¹; ¹Division of Biochemical
 Toxicology, National Center for Toxicological Research, US
 Food and Drug Administration, Jefferson, AR
- ThP 154 Strategies to Improve Stability of Glucuronide Metabolites During Extraction: A Case Study of Morphine Bioanalysis by LC-MS/MS; Moo-young Kim¹; Sara Clemens¹; Fumin Li¹; ¹PPD, Middleton, WI
- ThP 155 Development and characterization of an enzyme formulation for sulfatase and glucuronidase hydrolysis in a single step; Jose Luis Callejas¹; <u>Jack Andrews</u>¹; Maria Nunez¹; ¹Kura Biotec, Rancho Dominguez, CA
- ThP 156 Evaluation of msWing, a Novel Microsampling Device, for Rodent Serial Sampling in Toxicokinetic Studies; Lingling Xue¹; Ming Wang¹; Michelle Mulholland²; Jack Valentine²; Kathy Keebler²; Brian Hange²; Justina Thomas¹; Janet Oscar²; Yang Xu¹; Guangping Bi¹; Ken Anderson¹; Suman Mukherjee²; James Schiller¹; ¹Merck & Co. Inc.; Pharmacokinetics Pharmacodynamics and Drug metabolism; West Point, Pennsylvania 19486, West Point, PA; ²Merck & Co. Inc.; Safety Assessment and Laboratory Animal Resources; West Point, Pennsylvania 19486, West Point, PA
- ThP 157 Evaluation of Lidocaine Content and Delivery from Latex Elastrator Bands Using LC-MS, GC-MS and HPLC Techniques; James Saville¹; Tyler Trefz¹; Ori Granot¹; Nick Allan²; Merle Olson²; Richard Terry³; Jeremy E. Wulff¹; ¹University of Victoria, Chemistry Department, Victoria, BC; ²Chinook Contract Research Inc., Airdrie, AB; ³Richard Terry Innovations LLC., Conyers, GA
- ThP 158 Determining Pharmacokinetics of Cysteamine Using Polly QuantFit: An automated and Rapid Absolute Quantification Workflow; Swetabh Pathak¹; Raghav Sehgal¹; Surbhi Poddar¹; Shubham Agarwal¹; Taranjyot Singh¹; Shefali Lathwal¹; Abhishek Jha²; Shawn M. Davidson³; ¹Elucidata, Delhi, India; ²Elucidata, Cambridge, MA; ³Princeton University, Princeton, NJ
- ThP 159 Comparison of Multiple Steroid Analysis between Plasma and Serum from Post Menopausal Women Using Validated LC-MS/MS Methods; Yuyong Ke¹; Alain Dury¹; Claude Labrie¹; fernand labrie¹; ¹EndoCeutics, Quebec, QC

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- ThP 161 Evaluation of Heavy Metal Migration from Different Types of Plastic Food Packaging Materials into Aqueous Simulants Using ICP-MS; Raymond Li¹; Xinrong Lee²; Zhaoqi Zhan³; ¹Shimadzu Asia Pacific, Singapore, Singapore; ²National University of Singapore, Singapore, Singapore; ³Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore
- ThP 162 Fast ICP-MS Method for Determination of Heavy Elements in Different Types of Food Matrices; Raymond Li¹; Zhaoqi Zhan²; ¹Shimadzu Asia Pacific, Singapore,



- ThP 163 Sensitive and Accurate Metalloproteome Analysis from Respiration Complexes of Anaerobically Respiring Microorganisms; Rohit Budhraja¹; Lorenz Adrian¹;

 ¹Helmholtz Centre for Environmental Research GmbH UFZ, Leipzig, Germany
- ThP 164 A Novel ICP-MS/MS Approach for the Analysis of Vanadium in Glucose Magnesium Sulfate Injection to Meet the Requirement of USP<232>/<233>; Grace Lu¹; Xiangcheng zeng²; Donna Hsu³; ¹Baxter Healthcare (Suzhou) Co. Ltd, Suzhou, China; ²Agilent Technologies, China, Shanghai, China; ³Agilent Technologies, Taipei, Taiwan
- ThP 165 Detection of Iron Nanoparticles in Chemical Reagents used in Semiconductor Manufacturing Using spICP-MS; Chia-Chin Donna Hsu¹; Yoshinori Shimamura²; Yen-Ying Brian Liao³; Chun-Hua Chen⁴; Ching-Heng Jones Hsu⁵; Michiko Yamanaka²; Chiu-Hun Su⁴; ¹Agilent Technologies, Taoyuan City, Taiwan; ²Agilent Technologies, Hachioji City, Japan; ³Agilent Technologies, Taoyuan City, Taiwan; ⁴Industrial Technology Research Institute, Hsinchu County, Taiwan; ⁵BASF, Taoyuan City, Taiwan
- ThP 166 Certification of a New Ambient-Level Hexavalent Chromium Reference Standard Material in Soil Matrix;

 James Henderson¹; Lauren Stubbert¹; Matt Pamuku²;

 Teresa Switzer³; Vasile Purdui³; Larry Tucker⁴; Bob O'Brien⁵;

 H. m. Skip Kingston¹; ¹Duquesne University, Pittsburgh, PA;

 ²Applied Isotope Technologies, Pittsburgh, PA; ³Ministry of Environment and Climate Change, Toronto, Ontario;

 ⁴Metrohm USA, Riverview, FL; ⁵Sigma Aldrich Company, St. Louis MO
- ThP 167 Assessment of Hazard Index and Cancer Risk for Electroplating Workers Exposed to Multiple Metals;

 Chiung-Yu Peng¹; Te-Cheng Wu²; Jun-Ru Lee¹; ¹Kaohsiung Medical University, Kaoshiung, Taiwan; ²Kaohsiung Medical University, Kaohsiung, Taiwan
- ThP 168 A Novel Approach to Elemental Imaging: Laser
 Ablation Inductively Coupled Plasma Orbitrap Mass
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 Fisher Scientific (Bremen), Bremen, Germany; ²Thermo
 Fisher Scientific, Bremen, Germany
- ThP 169 Pyrrole-based Conductive Polymers for Determination of Divalent Heavy Metals in Water Using ICP/MS;

 Ahmad Rohanifar¹; Niloofar Alipourasiabi²; Govind Sharma Shyam Sunder¹; Joseph G. Lawrence²; Jon R. Kirchhoff¹; ¹Department of Chemistry and Biochemistry, College of Natural Sciences and Mathematics, University of Toledo, Toledo, Ohio; ²Department of Chemical and Environmental Engineering, College of Engineering, University of Toledo, Toledo. OH
- ThP 170 Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for the Analysis of the Spatial Distribution of Trace Elements in Biological Systems; Daniel J. Kutscher¹; Georgina Thyssen²; Sabrina O. Antonio³; Shona McSheehy Ducos²; ¹Thermo Fisher Scientific, Bremen, Germany; ²Thermo Fisher Scientific, Bremen, Germany; ³Thermo Fisher Scientific, Sunnyvale, CA
- ThP 171 Ionization Efficiencies of Low-Pressure Plasmas for Planetary Trace Elemental Analysis; Mazdak.

 Taghioskoui¹; Ricardo Arevalo²; Benjamin Farcy²; Mehdi Benna³.⁴; William McDonough²; William B. Brinckerhoff³;

 ¹Trace Matters Scientific LLC, Somerville, MA; ²University of Maryland, College Park, MD; ³NASA Goddard Space Flight Center, Greenbelt, MD; ⁴University of Maryland Baltimore County, Baltimore, MD
- ThP 172 The Use of LA-ICP-MS and Related Techniques for the Analysis of Essential Elements in Plant Tissue; Joseph D Ready¹; Callie Seaman¹; Kathryn Knight²; Catherine Duckett¹; Malcolm R Clench¹; Neil Bricklebank¹; ¹Sheffield

- Hallam University, Sheffield, United Kingdom; ²Croda International Plc, Goole, United Kingdom
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 ¹Shimadzu Analytical (India) PVT LTD, Mumbai, India

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University, MS

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 Laboratory, Smithsonian Conservation Biology Institute,
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 ¹Cornell University, Ithaca, NY
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- ThP 190 Charge Transfer Dissociation of Vitamin B12; Halle M Edwards¹; Zachary J. Sasiene¹; Praneeth M Mendis¹; Glen P Jackson¹.²; ¹C. Eugene Bennett Department of Chemistry, West Virginia University, Morgantown, WV; ²Department of Forensic and Investigative Science, West Virginia University, Morgantown, WV
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- Institute, Guangdong Academy of Agricultural Sciences, Guangzhou, China; ³Agilent Technologies Co. Ltd, Beijing, China
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 ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, Selangor, Malaysia; ⁴Thermo Fisher Scientific, Singapore, Singapore
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 Interaction Centre, Christchurch, New Zealand;
 ³AgResearch Ltd, Lincoln, New Zealand; ⁴Riddet Institute,
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 Charles Nwosu¹; Mei Zhu²; Lei Wang¹; Anne Kowal¹;

 ¹Takeda Pharmaceuticals International Co, Cambridge,
 MA; ²Takeda Pharmaceuticals, International Co.,
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 K. Taubenberger²; Kevan Hartshon³; Mitchell White³; ¹FDA,
 Silver Spring, MD; ²NIH/NIAID, Bethesda, MD; ³Boston
 University School of Medicine, Boston, MA
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 Croatia; ²Genos, Glycoscience Laboratory, Borongajska
 cesta 83h, Zagreb, Croatia
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 University, Lubbock, TX; ²Department of Chemistry and
 Biochemistry, Texas Tech University, Lubbock, Texas
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Lin¹; Rachel R. Ogorzalek Loo²; Joseph A Loo²; Robert P. Gunsalus²; Catherine E. Costello¹; ¹Boston University School of Medicine, Boston, MA; ²University of California LA, Los Angeles, CA

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 Makoto Horikawa¹.⁴; Mitsutoshi Setou¹.⁴; ¹Department of
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 Hamamatsu University School of Medicine,, Hamamatsu,
 Japan
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- ThP 230 Mass Spectrometry Imaging Identifies Altered Lipid Metabolites in the Mouse Testis in Mice Lacking Liver-X Receptors; Sheba Jarvis¹; Mark Towers²; Charlotte Bevan¹; Emmanuelle Claude²; ¹Imperial College London, Hammersmith Hospital, London, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom
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 VRC, NIAID, NIH, Bethesda, MD; *2 Bruker Daltonics Inc.,
 Billerica, MA; *3 Vaccine Production Program, VRC, NIAID,
 NIH, Gaithersburg, MD
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 Anatomy and Neurobiology, Graduate School of Medical
 Science, Kyoto Prefectural University of Medicine, Kyotocity, Japan; ⁴Kansai Medical University Medical Center,
 Hirakata, Japan
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 Judd¹; Jennifer L. Harvey¹; Bryna E. Burell²; Drew Lesniak²; Anthony Demetrius²; Richard M. Caprioli¹; ¹Vanderbilt University, Nashville, TN; ²Immune Tolerance Network, Seattle, WA
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 ¹The University of Texas at Austin, Austin, TX; ²Baylor College of Medicine, Houston, TX; ³MD Anderson Cancer Center, Houston, TX
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- ThP 239 Comprehensive Quantitative Lipidomic Analysis of Mouse Hearts Using AP-SMALDI Mass Spectrometry Imaging and LC-MS/MS; Vannuruswamy Garikapati^{1,2}; Claudia Colasante²; Eveline Baumgart-Vogt²; Bernhard



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- ThP 241 Analysis of Malaria-causing Plasmodia Infected Hepatocytes in Mouse Liver via Spatially Targeted Imaging Mass Spectrometry; Michael D. Tuck¹; Michelle L. Reyzer¹; Nathan Heath Patterson¹; David M. Anderson¹; Elizabeth Glennon²; Adam Lewis²; Alexis Kaushansky²; Richard M. Caprioli¹; ¹Vanderbilt Mass Spectrometry Research Center and Department of Biochemistry, Nashville, TN; ²Center for Infectious Disease Research, Seattle. Washington
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 Labate²; ¹ESALQ, Piracicaba, Brazil; ²ESALQ, Piracicaba,
 Brazil
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 Kenneth P. Garrard¹.²; Nicholas J. Hanne³; Jacqueline H. Cole³; David C. Muddiman¹.⁴; ¹FTMS Laboratory for Human Health Research, Department of Chemistry, North Carolina State University, Raleigh, NC; ²Precision Engineering Consortium, North Carolina State University, Raleigh, NC; ³Joint Department of Biomedical Engineering, North Carolina State University and University of North Carolina at Chapel Hill, Raleigh, NC; ⁴Molecular Education, Technology, and Research Innovation Center (METRIC), North Carolina State University, Raleigh, NC
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 ¹/ONpath, Menlo Park, CA
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 ¹Proteomics & Metabolomics Facility, Colorado State University, Fort Collins, CO; ²Waters Corporation, Beverly, MA; ³Waters Corporation, Milford, MA; ⁴Department of Horticulture & Landscape Architecture, Colorado State University, Fort Collins, CO
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 Germany; ²European Virtual Institute for Speciation Analysis

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 1 University of Wuppertal, Wuppertal, Germany; Leibniz University Hannover, Hannover, Germany
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 Cornelius Wendt¹; Pearl Kwantwi-Barima²; Christian
 Thoben¹; Brian H. Clowers²; Stefan Zimmermann¹; ¹Institute
 of Electrical Engineering and Measurement Technology,
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 Leibniz University Hannover, Hannover, Germany;

 2Department of Chemistry, Washington State University,
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 James D Sanders¹; Sarah Sipe²; Tobias Reinecke³; Brian H.
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 Austin, TX; ²University of Texas at Austin, Department
 of Chemistry, Austin, TX; ³Washington State University,
 Department of Chemistry, Pullman, WA



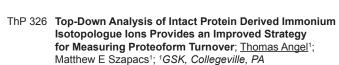
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 Jamie Godfrey²; Charlotte Mooney⁴; Perdita E. Barran⁴;
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 Eiceman¹; ¹New Mexico State University, Las Cruces, NM 88003; ²University of Córdoba, Rabanales, Spain; ³Collins Aerospace, 960 Overland Court, San Dimas, CA; ⁴960 Overland Court, San Dimas, CA
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- ThP 313 The Effect of High Fields and Strong Dipole Moments on Ion Mobility and Collision Cross Sections; Carlos Larriba Andaluz¹; <u>Tianyang Wu¹.²</u>; **IUPUI, Indianapolis, IN; **Purdue University, West Lafayette, IN
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- ThP 320 Introducing Structural Detail in Ion Mobility Spectra of Alcohols at Ambient Pressure Using a Tandem Drift Tube with Reactive Stage; Hossein Shokri¹; Maika Vuki²; Ben Gardner³; Niu Hsein-Chi W⁴; Umesh Chiluwal¹; Bhupendra Gurung¹; David Emery¹; Gary A. Eiceman¹; ¹New Mexico State University, Las Cruces, NM, 88003; ²University of Guam, Mangilao, Guam, 96923; ³Collins Aerospace, 960 Overland Court, San Dimas, CA; ⁴960 Overland Court, San Dimas, CA

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- ThP 322 13C-Metabolic Flux Analysis of Inhibitor-Induced Metabolic Redirection in the Central Metabolism of Breast Cancer Cells; Fumio Matsuda¹; Chie Araki¹; Kousuke Maeda¹; Nobuyuki Okahashi¹; Hiroshi Shimizu¹; ¹Osaka University, Suita, Japan
- ThP 323 Automated Mass Isotopologue Distribution Analysis for Metabolic Flux Quantification of Lipids in Cells
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 College of Pharmacy, Oregon State University, Corvallis,
 OR; ²Department of Chemistry, Oregon State University,
 Corvallis, OR
- ThP 324 Defining the Immune-Modulatory Actions of
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 Mullett¹; Greg J Buchan¹; James P OʻBrien¹; Crystal
 Uvalle¹; Stacy Gelhaus Wendell²; ¹University of Pittsburgh,
 Pittsburgh, PA; ²Univ of Pittsburgh, Pittsburgh, PA
- ThP 325 Increased Multiplexing of DiLeu Isobaric Tags with Enhanced Linker Using Mass Defect Isotope Encoding;
 Dustin Frost¹; Ting-Jia Gu¹; Miyang Li²; Feng Yu¹; Lingjun Li¹; ¹School of Pharmacy, University of Wisconsin-Madison, Madison, WI; ²Department of Chemistry, University of Wisconsin, Madison, WI



- ThP 327 Stable Isotope-Resolved Metabolomics under Pharmacologically Controlled Metabolic States; Pawel Lorkiewicz¹; Andrew Gibb²; Benjamin Rood¹; Liqing He¹; Yuting Zheng¹; Xiang Zhang¹; Bradford Hill¹; ¹University of Louisville, Louisville, KY; ²Temple University, Philadelphia, PA
- ThP 328 Automated High-Throughput Flux Analysis of Non-Small Cell Lung Carcinoma Cells Grown in vitro in Two and Three Dimensions; David Heywood¹; Suraj Dhungana²; Johannes PC Vissers¹; Abhishek Jha³; Raghav Sehgal³; Amrita Cheema⁴; ¹Waters Corporation, Wilmslow, United Kingdom; ²Waters Corporation, Milford, MA; ³Elucidata, Cambridge, MA; ⁴Georgetown University, Washington, DC
- ThP 329 Identifiability and Tracer Selection in Metabolic Flux Analysis; Xiaoyang Su¹; Chi Song²; ¹Rutgers University, New Brunswick, NJ; ²The Ohio State University, Columbus, OH
- ThP 330 Ultrahigh Resolution MS3 by UV Photodissociation can Reveal Unprecedented Detail of Pathways under Stable Isotope Resolved Metabolomics (SIRM); Richard Higashi^{1, 2, 3}; Woo-Young Kang¹; Teresa W-M. Fan^{1, 2, 3}; Andrew N. Lane^{1, 2, 3}; **Center for Environmental and Systems Biochemistry, University of Kentucky, Lexington KY, Lexington, Kentucky; **Markey Cancer Center, University of Kentucky, Lexington, Kentucky; **Joept. of Toxicology and Cancer Biology, University of Kentucky, Lexington, Kentucky, United States, Lexington, KY
- ThP 331 Isotopic 13C Enrichment in Multimer Ion Adducts of Intracellular Metabolites for Potential Applications in 13C Metabolic Flux Analysis; Charulata B. Prasannan^{1, 2}; Vivek Mishra¹; Damini Jaiswal¹; Pramod P. Wangikar^{1, 2, 3}; ¹Department of Chemical Engineering, Indian Institute of Technology Bombay, Mumbai, India; ²DBT-Pan IIT Center for Bioenergy, Indian Institute of Technology Bombay, Mumbai, India; ³Wadhwani Research Center for Bioengineering, Indian Institute of Technology Bombay, Mumbai, India

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- ThP 333 An Alternative Narrow-Bore Column to Facilitate High-Throughput "UHPLC" Type and microflow LC-MS Strategies for Residue Analysis; Arianne Soliven¹; Lucia Pareja²; Horacio Heinzen¹; Andrés Pérez Parada¹·³; ¹Grupo de Analisis de Compuestos Traza, Facultad de Química, Universidad de la Republica,, Montevideo, Uruguay; ²Departamento de Química del Litoral, CENUR LO, Universidad de la República, Paysandú, Uruguay; ³Departamento de Desarrollo Tecnológico, CURE, Universidad de la República, Rocha, Uruguay
- ThP 334 Optimization and Automated Selection of Assigned Charge States for Therapeutic Peptide Bioanalysis;
 Mary Piotrowski¹; Wayne Lootsma²; Julie Keefer¹; Hui
 Zhang¹; Joseph Janiszewski²; Steve Ainley²; ¹Pfizer, Groton,
 CT; ²Sound Analytics, Niantic, CT
- ThP 335 Multiplexing Independent Streams to Increase LC/MS/ MS Throughput; Mary A Piotrowski¹; Brendon Kapinos¹; Julie Keefer¹; Steven S Gernhardt¹; Hui Zhang¹; Wayne

- Lootsma²; Steve Ainley²; ¹Pfizer, Groton, CT; ²Sound Analytics, Niantic, CT
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- ThP 337 Establish an Analytical Model for Chemical Preservatives Using QTOF and MPP software; Shaozhen Wang; Agilent Technologies, Shanghai, China
- ThP 338 Hydrogen-Deuterium Exchange Liquid Chromatography / High Resolution Mass Spectrometry for Structure Elucidation of Unknown Organic Molecules; Chengli Zu¹; Renzo Samame¹; Daniel Knueppel¹; Jeffery Gilbert¹; ¹Corteva Agriscience, Indianapolis, IN
- ThP 339 High Resolution Mass Spectrometry with Automated Data Analysis to Support Structural Elucidation of Degradation Impurities of Drug Molecules; Yuejie Zhao¹; Yong Liu¹; Blanca Serra²; Elisabeth Ortega-Carrasco²; Ismael Zamora²; Kevin P. Bateman³; ¹Merck & Co., Inc., Rahway, NJ; ²Lead Molecular Design, S.L., Sant Cugat Del Valles, Spain; ³Merck & Co., Inc., West Point, PA
- ThP 340 Automatic Detection of Impurities and Byproducts in Complicated Reactions Using LC-HRMS; Elisabeth
 Ortega-Carrasco¹; Jenny Desantis²; Fabien Fontaine¹;
 Blanca Serra¹; Paolo Benedetti³; Ismael Zamora¹,³; ¹Lead
 Molecular Design, S.L., Sant Cugat Del Valles, Spain;
 ¹University of Perugia, Perugia, Italy; ³Molecular Discovery,
 London, United Kingdom
- ThP 341 An Integrated Approach for the Estimation of Hazardous Transformation Products from Metoprolol and Metoprolol Acid in UV/H2O2 Treated Waste Waters; Adrian Jaen-Gil¹; Gianluigi Buttiglieri¹; Aleix Benito²; Rafael Gonzalez-Olmos²; Sara Rodriguez-Mozaz¹; Damia Barcelo¹; ¹ICRA, Girona, Spain; ²IQS School of Engineering, Universitat Ramon Llull, Barcelona, Spain
- ThP 342 Multiple Ion Transition Summation of Isotopologues for Improved Mass Spectrometric Detection of N-Acetyl-S-(1,2-dichlorovinyl)-L-cysteine, a Biomarker of Exposure to Trichloroethylene; Deepak Bhandari¹; Cameron S. Movassaghi²; Benjamin C. Blount²; Víctor R. De Jesús²;

 ¹Centers for Disease Control and Prevention, Atlanta, Ga;
 ²Centers for Disease Control and Prevention, Atlanta, GA
- ThP 343 Structural Analysis of Impurities in Pharmaceutical Ingredients Using Trap-Free 2D-LC High-Resolution Accurate Mass Spectrometry; Tetsuo lida¹; Yusuke Inohana¹; Tairo Ogura¹; 'Shimadzu Corporation, Kyoto, Japan
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- ThP 345 Retention Time Prediction for 653 Pesticides on a Biphenyl Liquid Chromatography Stationary Phase Using Machine Learning; Anthony Sullivan¹; Leon P Barron²; Alan Barnes³; Neil Loftus³; ¹Shimadzu UK Limited, Milton Keynes, United Kingdom; ²Department of Analytical, Environmental & Forensic Sciences, School of Population Health & Environmental Sciences, Faculty of Life Sciences and Medicine, King's College London, United Kingdom; ³Shimadzu Corporation, Manchester, United Kingdom
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- Chromatography Mass Spectrometry (LC-MS); Holly-May Lewis¹; Roger Webb¹; Janella de Jesus¹; Catia Costa¹; Vladimir Palitsin¹; Josephine Bunch²; Guido Verbeck³; Melanie Bailey¹; ¹University of Surrey, Guildford, United Kingdom; ²National Physical Laboratory, London, United Kingdom; ³University of North Texas, Denton, TX
- ThP 348 Efficient Identification and Management of Degradant Data in Process Development; Anne Marie Smith¹; Andrew Anderson¹; Sanjivanjit K. Bhal¹; Joe DiMartino¹; ¹ACD/Labs, Toronto. ON
- ThP 349 Making Mass Spectrometry Analysis Easy and Automated by using Mass Hunter Walk Up Open Access Software; Kyle J Covert¹; Robert Ley¹; ¹Agilent Technologies, Inc., Santa Clara, CA
- ThP 350 Improved Analysis Profiling of Organic Semiconductor Materials by High-Resolution Mass Spectrometry with Supercritical Fluid Chromatography; Yunju Cho¹; Keumjung Yoon²; Sunghwan Kim¹,²; ¹Green-Nano Materials Research Center, Daegu, South Korea; ²Kyungpook National University, Daegu, South Korea
- ThP 351 Crown Chromatography: Cation-Binding Agents as Mobile Phase Additives in HILIC; Taylor A. Harmon¹; Richard A Yost¹; Timothy Garrett¹.²; ¹University of Florida Department of Chemistry, Gainesville, FL; ²University of Florida Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, FL
- ThP 352 Application of 2D LC with MS Detection with Superficially Porous Columns to the Analysis of Cold Medicine; William Long¹; Anne E Mack²; Carl Griffin²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Inc., Wilmington, DE

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 Bradford W. Gibson¹; 'Amgen, South San Francisco, CA
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 Vinh¹; ¹ESPCI PSL, Paris, France
- ThP 356 Streamlined Proteomic Profiling of Quantity-Limited Clinical Tissue Facilitated by Automated Sample Preparation and Mass Spectrometry; Torsten Mueller¹; Mathias Kalxdorf^{2, 3}; Marcel Kool^{2, 4}; Kristian W Pajtler^{2, 4, 5}; Jeroen Krijgsveld^{2, 6}; ¹DKFZ, Heidelberg, Germany; ²DKFZ, Heidelberg, Germany; ³The European Molecular Biology Laboratory, Heidelberg, Germany; ⁴NCT Heidelberg (KiTZ), Heidelberg, Germany; ⁵Pediaric Oncology, Hematology and Immunology, University Hospital, Heidelberg, Germany; ⁶Medical Faculty, Heidelberg University, Heidelberg, Germany
- ThP 357 A Quick and Sensitive LC-MS/MSMethod for Quantitation of Intact Insulin Analogs in Rat and Human Plasma; Dawei Zhou¹; Sharon Tong¹; ¹WuXi AppTec, Cranbury, NJ
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- ThP 359 Comparison of Homogenization Techniques towards a Universal Method for the Analysis of Mouse Tissues Using Multiple Reaction Monitoring-Mass Spectrometry (MRM-MS); Helena Pětrošová¹; Sarah A. Michaud¹; Angela

- Jackson¹; Nicholas J. T. Sinclair¹; Christoph H. Borchers¹. 2-3-4; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC; ²Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; ³Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; ⁴Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- ThP 360 Improving Host Cell Protein Profiling in

 Biopharmaceuticals by Advanced LC-MS/MS Methods;

 Regina Kufer¹; Martina Suessmair¹; Ingo Lindner¹; Don

 Walker²; Christopher Yu²; Stefanie Wohlrab¹; Markus

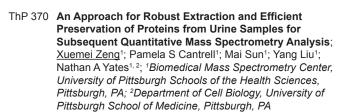
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 Penzberg, Germany; ²Genentech, South San Francisco, CA
- ThP 361 A Method to Optimize Proteome Analyses of Low Cell Numbers of Pathogens Retrieved from Infection Assays;

 Manuela Gesell Salazar¹; Sascha Blankenburg¹; Christian Hentschker¹; Denise Dittmar¹; Petra Hildebrandt¹; Stephan Michalik¹; Anna Nagel¹; Kristin Surmann¹; Uwe Völker¹;

 1 University Medicine Greifswald, Greifswald, Germany
- ThP 362 Kinetics of Acetone Precipitation: Investigation of Whether Protein Properties Influence the Rate of Precipitation under Various Solvent Conditions; Jessica L. Nickerson¹; Alan A. Doucette¹; ¹Dalhousie University, Halifax, NS
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- ThP 364 Development of Tissue Sample Preparation Method for Large-scale Quantitative Mass Spectrometry

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- ThP 365 SP2: Rapid and Automatable Contaminant Removal from Peptide Samples for Proteomic Analyses; Michael Pereckas¹; Matthew Waas¹; Rachel A. Jones Lipinski¹; Rebekah L. Gundry¹; ¹Medical College of Wisconsin, Milwaukee, WI
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- ThP 367 High-Temperature Trypsin Characterization and Comparison; Laura K. Muehlbauer¹; Alexander S. Hebert²; Joshua J. Coon¹,²,³,⁴,¹ Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²Genome Center of Wisconsin, Madison, WI; ³Morgridge Institute for Research, Madison, WI; ⁴Department of Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI
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- ThP 371 Enhanced Protonation Due to Chromium(III) during Liquid Chromatography Electrospray Ionization Mass Spectrometry; Matthew Mireles¹; Carolyn J. Cassady²;

 ¹University of Alabama, Tuscaloosa, AL; ²The University of Alabama, Tuscaloosa, AL
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- ThP 373 Positive Pressure-Assisted Sample Preparation (PASP) for Proteomics; Yang Liu¹; Richard Lam²; John Laycock²; Nathan A Yates¹; ¹University of Pittsburgh School of Medicine, Pittsburgh, PA; ²Tecan SP, Inc., Baldwin Park, CA
- ThP 374 Immuno and Enzymatic Reactor Micro-SPE Cartridges for Rapid Protein Isolation and Digest; Karen Duong¹; Simin Maleknia¹; Andrew Minett²; David Bishop¹; Philip Doble¹; ¹University of Technology Sydney, Sydney, Australia; ²Eprep Pty Ltd, Mulgrave, Australia
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 Markus A. Keller¹; ¹Medical University Innsbruck, Innsbruck, Austria
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- Wenbo Cao¹; Wenpeng Zhang^{1, 2}; Qinhua Chen³; Zheng Ouyang^{1, 2}; <u>Xiaoxiao Ma</u>¹; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instrument, Tsinghua University, Beijing, China; ²Weldon School of Biomedical Engineering and Department of Chemistry, Purdue University, West Lafayette, IN 47906; ³Affiliated Dongfeng Hospital, Hubei University of Medicine, Shiyan, China
- ThP 381 Lipid Omega Analyzer- Lipidomic Data Analysis System with C=C Location Identification Capability; Donghui Zhang¹; Wenpeng Zhang².³; Zheng Ouyang¹; Yu Xia²; ¹State Key Laboratory of Precision Measurement Technology and Instrument, Department of Precision Instruments, Tsinghua University, Beijing, China; ²Department of Chemistry, Tsinghua University, Beijing, China; ³Department of Chemistry Purdue University, West Lafayette, IN
- ThP 382 An LC-PB-MS/MS Workflow for Characterizing Phosphatidylinositols and Phosphatidylglycerols with Double Bond Location; Tian Xia¹; Wenpeng Zhang¹¹²; Hanlin Ren¹; Yu Xia¹; ¹Department of Chemistry, Tsinghua University, Beijing, China; ²Department of Chemistry, Purdue University, West Lafayette, IN
- ThP 383 Locating C=C Bonds in Unsaturated Lipids via Visible-Light Paternò-Büchi Reaction; Hai-Fang Li¹; Xiaoxiao Ma¹; Yu Xia¹; Zheng Ouyang¹; ¹Tsinghua University, Beijing, China
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 ¹School of Pharmacy, University of Wisconsin, Madison, WI; ²Department of Chemistry, University of Wisconsin, Madison. WI
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- ThP 388 Widely Targeted Lipidomics Profiling (WTLP) with Unit Dalton Resolution Using the Sciex 6500+ QTRAP; Yunping Qiu¹; Mackenzie J J Pearson²; Min Cai¹; Cyrus Papan³; Irwin J Kurland⁴; ¹Albert Einstein College of Medicine, Bronx, NY; ²Sciex, Framingham, MA; ³SCIEX, Darmstadt, Germany; ⁴Albert Einstein CollegeMed, Bronx, NY
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 Baltimore. MD
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- David Peake¹; Reiko Kiyonami¹; ¹Thermo Fisher Scientific, San Jose. CA
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- ThP 394 Untargeted Macrolipidomic Profiling of Plant-Based Oils; Juan Aristizabal-Henao¹; Ningombam Sanjib Meitei²; Ken D. Stark¹; ¹University of Waterloo, Waterloo, ON; ²PREMIER Biosoft, Palo Alto, CA
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 Nikolas Kessler¹; Lucy Woods¹; ¹Bruker Daltonics, Bremen,
 Germany
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 Timothy J. Garrett¹; Richard A Yost¹; ¹University of Florida,

 Gainesville. FL
- ThP 398 Leveraging Multidimensional Separations to Enhance Traditional LC-MS Lipidomics Workflows; Sarah M.

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 Matthias-Erich N Born¹; Boone M. Prentice¹; ¹University of
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- ThP 406 Studying Non-Covalent Interactions between G Protein-Coupled Receptors and miniGα Proteins by MALDI Mass Spectroscopy; Na Wu; ETHz, zurich, Switzerland
- ThP 407 Detecting Protein-Peptide Interactions Utilizing SAMDI and MALDI-TOF; Hilda Hernandez-Barry¹; Gary Wilson¹; Erica Vanderporten¹; Yue Fu¹; Maciej Paluch¹; Phil Hass¹; Rami Hannoush¹; Yichin Liu¹; Kelly Loyet¹; ¹Genentech, South San Francisco, CA
- ThP 408 Direct Identification of Phytoplankton Pigments in Sea Water Samples Using Electron Transfer MALDI MS; Luis Miguel Díaz¹; Marianny Y. Combariza¹; Cristian Blanco-Tirado¹; Juan Ramirez¹; Mayra C. Morales²; María I. Criales¹; Andres Franco Herrera²; ¹Universidad Industrial de Santander, Bucaramanga, Colombia; ²Universidad Jorge Tadeo Lozano. Santa Marta, Colombia
- ThP 409 MSn Analyses for Tryptophan-Conjugated ADC Mimic by Miniature MALDI Digital Ion Trap Mass Spectrometer (MALDI-DIT-MS); Hideharu Shichi¹; Shuichi Nakaya¹; Katsuya Maruyama²; Kosuke Hosoi¹; Takashi Nishikaze¹; Koichi Kojima¹; Kei Kodera¹; Sadanori Sekiya¹; Shinichi Iwamoto¹; Kounosuke Oisaki²; Motomu Kanai²; Koichi Tanaka¹; ¹SHIMADZU, Kyoto, Japan; ²Graduate School of Pharmaceutical Sciences, The University of Tokyo, Bunkyo, Japan
- ThP 410 A High-Throughput Multiplexed Assay Platform for Monitoring Protein Abundance in 96-Well Cell Cultures or Product Profiles from Enzyme-Substrate Reactions; Sergey Mamaev¹; Jeffrey C. Silva¹; Camilla Worsfold¹; Vladislav B. Bergo¹; ¹ADEPTRIX CORP., Beverly, MA
- ThP 411 Development of a Quantitative Peptide MALDI MS
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 an Amine Surface; Jason M Peterson¹; Loren J Howell¹;
 James G Boyd¹; Gaurav Saini¹; Patrick Walsh¹; Olgica
 Trenchevska¹; ¹HealthTell Inc, Chandler, AZ
- ThP 412 Characterization of Peptide "Primordial Soups" using MALDI-TOF and MALDI-FTICR MS; Jabbarrius N. Ervin¹; Marcos Bouza Areces²; Facundo M. Fernandez²; Jay G. Forsythe¹; ¹College of Charleston, Charleston, SC; ²Georgia Institute of Technology, Atlanta, GA
- ThP 413 MALDI-directed Region Selection for Laser Ablation Tissue Microsampling; Kelin Wang¹; Fabrizio Donnarumma¹; Michael Pettit²; Touradj Solouki²; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA; ¹Baylor University, Waco, TX
- ThP 414 Plasmonic Nanoshells for Drug, Metabolite and Bacteria Detection with Mass Spectrometry; Lin Huang¹; Kun Qian²; ¹Shanghai Jiao Tong University, Shanghai, China; ²Shanghai Jiao Tong University, Shanghai, China
- ThP 415 Comparison of Diethyl Dithiocarbamate and Pyrrolidine Dithiocarbamate for Cisplatin and Copper Chelation by MALDI-TOF; Yi-Feng Dai¹; Hung-Wei Yang²; Chiung-Yin Huang³; Kuo-Chen Wei³; Hay-Yan J. Wang⁴.⁵; ¹National Sun Yat-sen University, Kaohsiung, Taiwan; ²Institute of Medical Science and Technology, National Sun Yat-sen University, Kaohsiung, Taiwan; ³Chang Gung Memorial Hospital, Tainan, Taiwan; ⁴Department of Biological Sciences, National Sun Yat-sen University, Kaohsiung, Taiwan; ⁵Doctoral Degree Program in Marine Biotechnology, National Sun Yat-sen University and Academia Sinica, Kaohsiung, Taiwan
- ThP 416 High-Throughput MALDI-TOF Stem Cell Quality
 Assurance; Stephen Zambrzycki¹; Gilad Doron²; Johnna
 S Temenoff²; Facundo M Fernandez¹; ¹Georgia Institute of
 Technology, School of Chemistry and Biochemistry, Atlanta,



ThP 417 AP-MALDI-Q-IMS-TOF MS as a Highly Accurate MS
Profiling Platform for Speciation/Biotyping; Cristian
Piras¹; Oliver J Hale¹; Barney Jones¹; Nick Taylor¹; Mike
Morris²; Christopher K Reynolds¹; Rainer Cramer¹;
¹University of Reading, Reading, United Kingdom; ²Waters
Corporation, Wilmslow, United Kingdom

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- ThP 418 Insights on Cation-Adduct Formation in MALDI Mass Spectrometry; Jonas B Metternich¹; Martin F Czar¹; Mario F Mirabelli¹; Giovanni L Bartolomeo¹; Renato Zenobi¹; ¹ETH Zurich, Zurich, Switzerland
- ThP 419 Enhanced Protonation upon Addition of Chromium(III)

 During Matrix-Assisted Laser Desorption Ionization;

 Nnenna E Dieke¹; Carolyn J Cassady¹; ¹The University of Alabama, Tuscaloosa, AL
- ThP 420 Ion Source Cleaning Plate for Clinical MALDI-TOF System; Heesung Kang¹; Joo Yeon Oh¹; Yang Sun Kim¹; ¹ASTA, Suwon-si, South Korea
- ThP 421 Utilizing a Cold-Mist Nebulizer to Perform Matrix
 Deposition in MALDI MS Analyses of Complex Samples
 and Tissue Slices; Eugene Moskovets¹; Vladimir M.
 Doroshenko¹; Alexey Gapeev²; Shelley N. Jackson³;
 Ludovic Muller³; Amina S. Woods³; ¹MassTech Inc,
 Columbia, MD; ²Millis Scientific Inc, Baltimore, MD; ³NIH/
 NIDA-IRP, Baltimore, MD

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- ThP 422 On-Target Recrystallization of 2,5-Dihydroxybenzoic Acid Using Acetonitrile Droplet as an Enhancement of Surface Homogeneity for MALDI-MS Dried-Droplet Sample Preparation; Huu-Quang Nguyen¹; Dabin Lee¹; Yeoseon Kim¹; Min Sun Kim²; Kyoung-Soon Jang³; Jeongkwon Kim¹; ¹Chungnam National University, Daejeon, South Korea; ²Scientific Instruments Reliability Assessment Center, Korea Basic Science Institute, Daejeon, South Korea; ³Biomedical Omics Center, Korea Basic Science Institute, Daejeon, South Korea
- ThP 423 High-Speed Characterization of Candle Waxes Using Surface-Assisted Laser Desorption/Ionization Mass Spectrometry (SALDI-MS) with Etched Silver Foil as Substrates; Andreas Schnapp¹; Ann-Christin Niehoff¹; ¹Shimadzu Europa GmbH, Duisburg, Germany
- ThP 424 Nanodiamond Assisted MALDI-MS Analysis of High Mass Proteins in the Nanomolar Concentration Range;

 Avinash Adhikrao Patil¹; Mhikee Janella N. Descanzo¹;

 Chen-Hao Wen¹; Wen-Ping Peng¹; ¹National Dong Hwa University, Shoufeng, Taiwan
- ThP 425 Serial Detachment of Amino Acids from Microwave-Assisted Weak Acid Protein Hydrolysis; Jihyun Paek¹; Jeongkwon Kim¹; ¹Chungnam National University, Daejeon, South Korea
- ThP 426 Assessing the Effects of Tissue Fixation, Freezing, Embedding, and Washing on the Global Lipidome Utilizing MALDI FT-ICR IMS; Marissa A. Jones^{1, 2}; Jeffrey M. Spraggins^{1, 2, 3}; Nathan Heath Patterson^{1, 4}; William J. Perry^{1, 2}; Richard M. Caprioli^{1, 2, 4, 5, 6}; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Department of Chemistry, Vanderbilt University, Nashville, TN; ³Department of Biochemistry, Vanderbilt University, Nashville, Tennessee; ⁴Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁶Department of Medicine, Vanderbilt University, Nashville, TN; Nashville, TN

- ThP 427 N-glycan MALDI Fingerprinting and All-In-One Reducing-End Derivation Matrix Optimization; Nicolas Eskenazi¹; Ophelia Djimatey¹; Chiara Giangrande¹; Joêlle Vinh¹; ¹SMBP, ESPCI, PSL University, PARIS, France
- ThP 428 Simple Surface Modification for Enhancing
 Carbohydrate Ion Sensitivity in Matrix-Assisted
 Laser Desorption/Ionization Time-Of-Flight Mass
 Spectrometry; Chia-Hsin Chi¹; Yu-Meng Ou¹.²; Yi-Sheng
 Wang¹; ¹Genomics Research Center, Academia Sinica,
 Taipei, Taiwan; ²Department of Chemistry, National Taiwan
 University, Taipei, Taiwan
- ThP 429 Toward Seamless Incorporation of Paternò-Büchi
 Carbon-Carbon Double Bond Localization in Common
 MALDI-MSI Workflow; Andrew E Paulson¹; Young-Jin Lee¹;
 ¹lowa State University, Ames, IA
- ThP 430 Rapid Isolation of Peptides and Proteins from Biological Fluids for Proteomic Analysis by MALDI-TOF Mass Spectrometry; Ryan Walsh¹; Matt Texter²; Robert English³; Eric Weaver⁴; ¹Shimadzu Scientific Instruments Corp., Columbia, MD; ²Shimadzu Scientific Instruments, Inc, Columbia, MD; ³Shimadzu Scientific Instruments, Inc., Columbia, Maryland; ⁴University of Texas, Arlington, Arlington, TX

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- ThP 431 Utilizing Microfluidic Devices to Evaluate Cellular Metabolism of Therapeutics with Online Mass Spectrometric Detection; Campbell B Mousseau¹; Chengpeng Chen²; R. Scott Martin²; Amanda B. Hummon¹; ¹The Ohio State University, Columbus, OH; ²Saint Louis University, St. Louis, MO
- ThP 432 Integrated Workflow with Quality Control for Large Cohort and Clinical Metabolomics Research Using Robust Hardware and Signal Correction; Sebastian Goetz¹; Ulrike Schweiger-Hufnagel¹; Matthias Szesny¹; Aiko Barsch¹; Sven W. Meyer¹; Matthew R. Lewis²; Nikolas Kessler¹; ¹Bruker Daltonics, Bremen, Germany; ²Imperial College London, London, United Kingdom
- ThP 433 Dynamic Assessment of the Human Saliva Structural Lipidome using MS/MSALL Shotgun Lipidomics for Population Health Applications; Valerie Bussberg¹; Hannah Rockwell¹; Gramoz Kondakci¹; Emily Y. Chen¹; Fei Gao¹; Niven R. Narain¹; Michael A. Kiebish¹; ¹BERG, LLC, Framingham, MA
- ThP 434 Development of a Functional Neurometabolomics
 Platform to Enable MOA and Functional Studies in
 Drug Development and Precision Medicine; Bennett
 Greenwood¹; Collin Hill¹; Vladimir Tolstikov¹; Reinhard
 Roessler¹; Christine Denny²; Josephine McGowan²; Vivek
 Vishnudas¹; Rangaprasad Sarangarajan¹; Niven R. Narain¹;
 Michael A. Kiebish¹; ¹BERG, LLC, Framingham, MA;
 ²Columbia University, New York, NY
- ThP 435 Metabolomics Analysis of Adults-Onset Still's Disease by SWATH-MS; Chien-Chen Lai¹; Hsuan-Jen Chen¹;

 ¹National Chung Hsing University, Taichung, Taiwan
- ThP 436 Influenza Viral Infection Detection in Seconds Using LDTD-MS and Machine Learning; Pier-Luc Plante^{1, 2}; Élina Francovic-Fontaine^{1, 2}; Francis Brière^{1, 2}; Nancy Boucher²; Julie Carbonneau²; Marie-Ève Hamelin²; Guy Boivin²; Jacques Corbeil^{1, 2}; ¹Université Laval, Quebec, Quebec; ²Infectiology Research Centre, CHU de Québec, Laval University, Québec, QC
- ThP 437 Multiomics Analysis of The Metabolome and Intestinal Microbiome of Antibiotics versus Pathogen-Specific Monoclonal Antibodies; Omari Jones-Nelson¹; Matthew Glover¹; Andrey Tovchigrechko¹; Taylor Cohen¹; Fiona Fernandes²; Udaya Rangaswamy²; Liu Hui²; David Tabor²; Paul Warrener¹; Jose Martinez¹; Wen Yu¹; Gina Dangelo¹; Sonja Hess³; Bret Sellman¹; ¹MedImmune, Gaithersburg,

ATLANTA

- MD; ²Medimmune, South San Francisco, California; ³MedImmune, Gaithersburg
- ThP 438 A Novel Derivatization LC-MS/MS-Based Method for Quantifying Metanephrines from Dried Blood Spots for the Diagnosis of Pheochromocytomas and Paragangliomas (PPCs/PPGLs); Vincent R.

 Richard¹; Rene Zahedi¹; Shaun Eintracht²; Christoph H.

 Borchers^{1, 3, 4, 5}; ¹Segal Cancer Proteomics Centre, Lady Davis Institute for Medical Research, Jewish General Hospital, McGill University, Montreal, QC; ²Department of Diagnostic Medicine, Jewish General Hospital, McGill University of Victoria-Genome BC Proteomics Centre, Victoria, BC; ⁴Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC; ⁵Gerald Bronfman Department of Oncology, Jewish General Hospital, McGill University, Montreal, QC
- ThP 439 High Resolution Mass Spectrometry Newborn Screening Applications for Quantitative Analysis of Amino Acids and Acylcarnitines from Dried Blood Spots; C. Austin A Pickens¹; Konstantinos Petritis¹; **Centers for Disease Control and Prevention. Chamblee. GA
- ThP 440 Development of a New Vitamin D Assay and Its
 Application to Profile Vitamin D Metabolites in a Pediatric
 Population; Brian C DeFelice¹; Theresa L Pedersen¹; Hanan
 Shorrosh²; Randi K. Johnson²; Jennifer A Seifert²; Jill M.
 Norris²; Oliver Fiehn³; ¹University of California, Davis, Davis,
 CA; ²University of Colorado, Denver Anschutz, Aurora, CO;
 ³University of California Davis, Davis, CA
- ThP 441 Metabolomic Studies in Newborn Exposed to Zika Virus;
 Danielle Zildeana Souza Furtado¹; Luiz André Zanluqui¹;
 Cleber N. Barretos¹; Fabiana A. Marques²; Regina V
 Oliveira³; Nilson Antonio Assuncao¹; ¹Universidade Federal
 de São Paulo (UNIFESP), São Paulo, Brazil; ²Instituto
 Federal de Educação, Ciência e Tecnologia Goiano,
 Campus Ceres., Ceres, Brazil; ³Universidade Federal de
 São Carlos, São Carlos, Brazil
- ThP 442 New Secondary Electrospray Ionization Configuration with Improved Background Levels and Repeatability for Online Analysis of Relevant Metabolites in Breath; Pedro A. Barreiro¹; Miriam Macia¹; Kapil D. Singh²; Pablo Sinues²; Guillermo Vidal-De-Miguel¹; ¹Fossil Ion Technology, Madrid, Spain; ²University of Basel, Basel, Switzerland
- ThP 443 Metabolic Profile of Saliva and Biofilm of 30 Patients during Hospitalization in ICU; Monira Samaan Kallas Kallas¹; Meriellen Dias²; Isaac Castro¹; Maria Anita Mendes²; Luciano Cesar Pontes Azevedo¹; ¹Sirio Libanes Hospital,, São Paulo, Brazil; ²Dempster MS Lab- Poli-USP, Sao Paulo, Brazil
- ThP 444 Metabolic Assessment of Multi-Risk Factors of Alzheimer's Disease Based on Integrative Metabolomic Analysis; Soo Jin Park¹; Eosu Kim²; Soo ah Jang²; Do Yup Lee¹; ¹kookmin university, Seoul, South Korea; ²Yonsei University College of Medicine, Seoul, South Korea
- ThP 445 MALDI-FTMS and NMR Serum Analysis for Biomarker Based Determination of Diabetes During Pregnancy;
 Franklin E. Leach liii¹; Jacquelyn Walejko¹; Maureen Keller-Wood²; Arthur S. Edison¹; ¹University of Georgia, Athens, GA; ²University of Florida, Gainesville, FL
- ThP 446 Biomarker Discovery and Validation for Delirium Syndrome Using Mass Spectrometry-Based Metabolomics Analysis of Serum Samples; Don E. Davis.

 Jr. 1, 2, 3, 4; Simona G. Codreanu 1, 2, 3, 4; Stacy D. Sherrod 1, 2, 3, 4; Jennifer Colby 5; Jin H. Han 6; John A. McLean 1, 2, 3, 4;

 1 Vanderbilt University Department of Chemistry, Nashville, TN; 2 Vanderbilt Institute of Chemical Biology, Nashville, TN; 3 Center for Innovative Technology, Nashville, TN; 4 Vanderbilt Institute for Integrative Biosystems Research and Education, Nashville, TN; 5 Vanderbilt University Medical Center Department of Pathology, Microbiology and Immunology, Nashville, TN; 6 Vanderbilt University Medical Center

- Department of Emergency Medicine, Nashville, TN

 ThP 447 Metabolic Preference Assay for Rapid Diagnosis
 of Bloodstream Infections; Thomas Rydzak¹; Ryan A
 Groves¹; Heather Semeniuk²; Rajnigandha Pushpker¹;
 Ruichuan Zhang¹; Daniel Gregson²; Deirdre Church²; lan
 A Lewis¹; ¹University of Calgary, Calgary, AB; ²Calgary
 Laboratory Services, Alberta Health Services, Calgary, AB
- ThP 448 Investigating the Complex Interaction between
 Host Prostate Cancer Cells and Common Microbes
 Using LC-IM-QTOF-MS Based Platform; Sumankalai
 Ramachandran¹; Minas Sakellakis¹; Gary Gallick¹;
 Christopher Logothetis¹.²; Mark Titus¹; ¹Department of
 Genitourinary Medical Oncology, The University of Texas
 MD Anderson Cancer Center, Houston, TX, Houston, TX;
 ²Department of Clinical Therapeutics, University of Athens,
 Athens, Greece
- ThP 449 UPLC-MS Based Plasma Metabolomics Reveal
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 Nonalcoholic Steatohepatitis; Nisreen Nimer^{1, 2}; Zeneng
 Wang²; Ina Nemet²; Valentin Gogonea^{1, 2}; Stanley L Hazen^{1, 2}; ¹Cleveland State University, Cleveland, OH; ²Cleveland
 Clinic, Cleveland, OH

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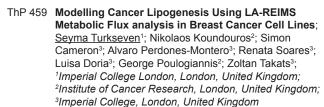
- ThP 450 Novel Metabolite Interactions between Branched Amino Acid Aminotransferase 2 (BCAT2), Phenyl Compounds, and Biocytin; Carol Nilsson¹; Kevin G. Hicks²; Jared Rutter²; ¹Lund University, Lund, Sweden; ²University of Utah School of Medicine, Salt Lake City, UT
- ThP 451 Metabolomics Analysis of IL-2 and IL-15 Expanded y952 T Cells Co-Cultivated with Cancer Cell Lines; Thomas P.

 Wyche¹; Rurun Wang¹; Kalyn Schriefer¹; Samantha O'Hara¹;

 Jason Killough¹; Dario Gutierrez¹; Theodore Sana¹; ¹Merck & Co., Inc., Cambridge, MA
- ThP 452 Where Does Tcruzi Hide? A Mass Spectrometric Study of *T. cruzi* Infection in Mouse Models.; Ekram Hossain¹; Sharon Lostracco-Johnson²; Diane Thomas²; Laura-Isobel McCall¹; ¹University of Oklahoma, Norman, OK; ²UCSD, San Diego, CA
- ThP 453 Development of Chemical Isotope Labeling Nanoflow LC-MS for Profiling Hydroxyl Submetabolome of Small Numbers of Cells; Xian Luo¹; Liang Li¹; ¹University of Alberta, Edmonton, AB
- ThP 454 Rapid Quantification of Extremely Polar Metabolites in Biological Fluids Using Negative Electrospray HILIC-Mass Spectrometry; Xiaoding Wang¹; Liangqiao Bian²; Maciej Kukula²; Zhao Wang¹; ¹Division of Cardiology, Department of Internal Medicine, University of Texas Southwestern Medical Center, Dallas, Texas; ²Shimadzu Center for Advanced Analytical Chemistry, University of Texas at Arlington, Arlington, TX
- ThP 455 Metabolomic Profiling Shows that Glutathione Depletion Is Rescued Along with Growth Rate in Yeast Methionine Auxotrophs; Matthew A. Kukurugya¹; Bernd J. Wranik¹; Tina Mahatdejkul-Meadows¹; R. Scott McIsaac¹; Bryson D. Bennett¹; ¹Calico Life Sciences, South San Francisco, CA
- ThP 456 Analysis of Single Liver Cells to Study Drug Uptake,
 Metabolism and Effects on Endogenous Metabolome at
 the Single Cell Level; Liliana Pedro¹; Patrick Rudewicz¹;

 ¹Novartis Institutes for Biomedical Research, Emeryville, CA
- ThP 457 Evaluation of Inter-protocol Quality Control Samples
 Used for Metabolomic Analyses; Bethanne M. Warrack¹;
 Michael D. Reily¹; Petia Shipkova¹; Joelle Onorato¹; ¹BristolMyers Squibb, Princeton, NJ
- ThP 458 Development and Validation of a High Throughput Metal Ion Panel of 23 Elements for Analysis of Bio Fluids;

 Matthew T Doyle¹; Richard Robinson¹; Afton Starling¹; Brent Overcash¹; Lori Wright¹; Fred Hubbard¹; Anne Evans¹; Luke Miller¹; **Metabolon, Inc., Durham, NC**



- ThP 460 Ion-Pair Selection Method for Pseudotargeted Metabolomics Based on SWATH MS Acquisition and Its Application in Type 2 Diabetes study; Xinjie Zhao¹ 2; Lichao wang¹.²; Benzhe Su³; Zhongda Zeng¹; Chao Li³; Wangjie Lv¹.²; Qiuhui Xuan¹.²; Lina Zhou¹.²; Xin Lu¹. 2; Xiaohui Lin¹.²; Guowang Xu¹.²; ¹CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China; ²University of Chinese Academy of Sciences, Beijing, China; ³School of Computer Science & Technology, Dalian University of Technology, Dalian, China
- ThP 461 A Comprehensive Heart Metabolome Enabled by Ultra-High Resolution Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry (FTICR-MS); Benjamin Wancewicz¹; Yutong Jin¹; Yanlong Zhu¹; Ying Ge¹; ¹UW Madison, Madison, WI
- ThP 462 Large-Scale Metabolomic Analysis of Hydrophilic Metabolites Using Hydrophilic Interaction Liquid Chromatography Tandem Mass Spectrometry with a Novel Polymer-Based Amino Column; Kohta Nakatani¹; Yoshihiro Izumi¹; Masatomo Takahashi¹; Keita Sakurai²; Michio Butsugan²; Takeshi Bamba¹; ¹Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan; ²Hitachi Chemical Techno Service Co., Ltd., Ibaraki, Japan
- ThP 463 Identification of a Malate-Aspartate Shuttle Mediated Mechanism Supporting Drug Resistance in Lung Cancer Cells Triggered by Reduced GLUL Expression; Anders Nordstrom¹; Magesh Muthu¹; ¹Umea University, Umea, Sweden
- ThP 464 Next Generation Metabolomics Approach for Isolation and Higher Throughput Annotations of Metabolites from Medicago truncatula Using UHPLC-MS2-SPE-NMR; Anil Bhatia^{1, 2}; Feng Qiu^{1, 3}; Dennis Fine⁴; Daniel Wherritt^{4, 5}; Zhentian Lei^{1, 2}; Lloyd W. Sumner^{1, 2}; ¹Biochemistry Department, University of Missouri, Columbia, MO; ²MU Metabolomics Center, University of Missouri, Columbia, MO; ³International Flavors & Fragrances, Union Beach, NJ; ⁴The Samuel Roberts Noble Foundation, Ardmore, OK; ⁵University of Texas at San Antonio, San Antonio, TX
- ThP 465 Mass Spectrometric Analysis of Metabolic Profile
 Alterations in Cataractous Lenses Due to Point
 Mutations in Two Alpha Crystallins; Cheryl Frankfater¹;
 Stephanie Bozeman²; Paul Hamilton²; Fong-Fu Hsu¹; Usha
 Andley²; ¹NIH/NIGMS Biomedical Mass Spectrometry
 Resource, Washington University School of Medicine,
 St. Louis, MO; ²Department of Ophthalmology and Visual
 Sciences, Washington University School of Medicine, St.
 Louis. MO
- ThP 466 Untargeted and Targeted Metabolomics Approach for Characterizing the Hypoxia-Induced Metabolomic Alterations in Primary and Metastatic Colorectal Cancer; Sujatha Chilakala¹; Colin Flinders¹; Ah Young Yoon¹; Mario M Alba¹; Shannon M Mumenthaler¹; Jonathan E Katz¹;

 ¹Lawrence J. Ellison Institute for Transformative Medicine of USC, Los Angeles, CA
- ThP 467 Quatitaion of Glycine Using LC-MS to Investigate Its Role in Sex-Specific Association with Coronary Heart Diseases in vivo Studies; Ah Young Yoon¹; Nicholas C. Woodward²; Janet Gukasyan²; Sujatha Chilakala¹; Hooman Allayee²; Jonathan E Katz¹; ¹Lawrence J. Ellison Institute for Transformative Medicine of USC, Los Angeles, California; ²University of Southern California, Los Angeles, California

- ThP 468 Integrating LC/MS-Based Metabolomics and Solid-State NMR for Total Accounting of Carbon; Miriam Sindelar^{1,}
 2; Xiangfeng Niu^{1, 2}; Jacob Schaefer¹; Brian N Finck²; Gary J Patti^{1, 2}; ¹Washington University in St. Louis, St. Louis; ²Washington University School of Medicine in St. Louis, St. Louis, MO
- ThP 469 Metabolic Phylogeny: Evidence for Speciation through Metabolic Selection in the Evolution of Borrelia, the Causative Agent of Lyme Disease; Ryan A Groves¹; Thomas Rydzak¹; Mildred Castellanos²; Peter Kraiczy³; George Chaconas²; Ian A Lewis¹; ¹Lewis Research Group, Department of Biological Sciences, University of Calgary, Calgary, AB; ²Department of Biochemistry and Molecular Biology, University of Calgary, Calgary, AB; ³Institute of Medical Microbiology and Infection Control, University Hospital of Frankfurt, Frankfurt Am Main, Germany
- ThP 470 Cancer Metabolome Dictates Susceptibility to Oncolytic Viral Therapy; Barry Kennedy¹; Patrick Murphy¹; Michael Giacomantonio¹; Prathyusha Konda²; Derek R Clements¹; Namit Holay¹; Shashi Gujar¹.²; ¹Department of Pathology, Dalhousie University, Halifax, NS, Canada, Halifax, NS; ²Department of Microbiology and Immunology, Dalhousie University, Halifax, NS, Canada, Halifax, NS, Canada, Halifax, NS
- ThP 471 HPLC-MS as a Detection Method for Pigments,
 Phenolics, and Co-Regulation in a Hybrid Wine Grape
 Family to Optimize Plant Breeding; Abigail L Diering¹;
 David Tork¹; Dana Freund¹; Matthew Clark¹; Adrian
 Hegeman¹; Anna Underhill¹; ¹University of Minnesota, St.
 Paul, MN
- ThP 472 Cancer Cell Metabolism in KRAS Mice Revealed by Direct Sample Analysis with MALDI-TOF and High Resolution Mass Spectrometry; Bo Wei¹; Lin Tan¹; Robyn Rhea¹; Peiying Yang¹; ¹M D Anderson Cancer Center, Houston, TX
- ThP 473 Characterization of Future Urine Reference Materials for the NIST Metabolomics Quality Assurance and Quality Control Program; Abraham Kuri Cruz¹; David A. Sheen¹; Werickson F. C. Rocha²; Christina M. Jones¹; ¹National Institute of Standards and Technology, Gaitherburg, MD; ²INMETRO, Duque De Caxias, Brazil
- ThP 474 Database Assisted Globally Optimized Targeted Mass Spectrometry (dGOT-MS): Reliable Metabolomics Analysis with Broad Coverage; Xiaojian Shi¹; Haiwei Gu¹; Paniz Jasbi¹; ¹Arizona State University, Scottsdale, AZ
- ThP 475 How the Isotope Exchange Mass Spectrometry can Help Tandem Mass Spectrometry for Identification of Unknowns?; Yury kostyukevich¹; Alexander Zherebker¹; Alexey orlov¹; Eugene (evgeny) Nikolaev²; ¹Skolkovo Institute of Science and Technology, Skolkovo, Russian Federation; ²Skolkovo institute of science and technology, Moscow Region, Russian Federation
- ThP 476 LC-HRMS Analysis of Small Molecules Formed in Cigarette Smoke-Exposed 3D Cellular Models Derived from Smokers and Non-Smokers; Yuichiro Takanami¹; Nobumasa Kitamura¹; Shigeaki Ito¹; ¹Japan Tobacco Inc., Yokohama, Kanagawa, Japan
- ThP 477 Rock Varnish as a Source of Biosignatures for Mars Extant Life; Hiro Teshima¹; Chris M Yeager¹; Nina L Lanza¹; Ricardo Marti-Arbona¹; ¹Los Alamos National Lab., Los Alamos, NM
- ThP 478 An Integrated Ultra-High Resolution FTICR-MS based Platform for Metabolomics; Yanlong Zhu¹; Benjamin Wancewicz¹; Kent Wenger¹; Yutong Jin¹; Heino M. Heyman²; Christopher J. Thompson²; Aiko Barsch²; Allan Brasier¹; Ying Ge¹; ¹University of Wisconsin Madison, madison; ²Bruker Daltonics Inc., Billerica, MA



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- ThP 480 Optimization of C. elegans Homogenization and Extraction Methods for LC-MS Untargeted Metabolomics; Brianna M Garcia¹; Bennett Fox².³; Goncalo Gouveia⁴; Franklin E. Leach III⁵; Facundo M. Fernandez⁵; Frank Schroeder².³; Arthur S. Edison⁴; I. Jonathan Amster¹; ¹Department of Chemistry, University of Georgia, Athens, GA; ²Department of Chemistry and Chemical Biology, Cornell University, Ithaca, NY; ³Boyce Thompson Institute, Ithaca, NY; ⁴Department of Biochemistry, University of Georgia, Athens, Georgia; ⁵Department of Environmental Health Science, University of Georgia, Athens, GA; °School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA
- ThP 481 On-Surface Derivatization Reactions for the High-Throughput Analysis of the Poultry Gut Microbiome using MALDI-MS; Trevor T Forsman¹; Torey Looft²; Young-Jin Lee¹; *Iowa State University, Ames, IA; *2US Department of Agriculture, National Animal Disease Center, Ames, IA
- ThP 482 Optimizing Methods to Extract Metabolites from Zebrafish Tissue; Michaela Schwaiger-Haber¹; Fuad J Naser¹; Miriam Sindelar¹; Jonathan L Spalding¹; Gary J Patti¹; ¹Washington University, St. Louis, MO

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- ThP 483 Interlaboratory Reproducibility of an Untargeted Metabolomics GC-MS Assay for Analysis of Human Plasma; Yan-Ping Lin¹; Ying Li¹; Wen-sheng Lang¹; John Masucci¹; Gary W. Caldwell¹; ¹Janssen Research and Development, Spring House, PA
- ThP 484 Establishing a Shareable Spectral MSMS Library and Accurate Mass Retention Time (AMRT) Database for Pediatric Metabolomics Analysis; Chiara Lavarello¹; Sebastiano Barco¹; Anas Kamleh²; Igor Fochi³; Martina Bartolucci¹; Gino Tripodi¹; Giuliana Cangemi¹; Andrea Petretto¹; ¹IRCCS Istituto Giannina Gaslini, Genova, Italy;

 2Thermo Fisher Scientific Europe, Hägersten, Sweden;
 3Thermo Fisher Scientific, Milano, Italy
- ThP 485 Metabolic Characterization of Cell Clones in X. laevisEmbryos by HPLC-MS; Jie Li¹; Peter Nemes¹;

 ¹Department of Chemistry and Biochemistry, University of Maryland, College Park, MD
- ThP 486 A Comprehensive N-Glycan Profiling Analysis of Bevacizumab Biosimilar by UHPLC with Fluorescence Detection and Q-TOF Mass Spectrometry; Yonghai Lu¹; Jie Xing¹; Zhaoqi Zhan¹; ¹Shimadzu Asia Pacific, Singapore, Singapore
- ThP 487 Discovery of Metabolite Biomarkers of Transition
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 Labeling LC-MS; Minglei Zhu¹; Elda Dervishi²; Graham
 Plastow²; Marcos Colazo³; Liang Li¹; ¹University of Alberta,
 Edmonton, AB; ²University of Alberta, Edmonton, Alberta;
 ³Alberta and Agriculture Forestry, Edmonton, Alberta
- ThP 488 Comprehensive Studies of Drug-induced Stemness of Cancer Cells at Single-cell Level; Mei Sun¹; Xingxiu Chen¹; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK
- ThP 489 Comprehensive Untargeted Metabolite Identification with Kinetex F5 Microflow Liquid Chromatography and Variable Window Data Independent Acquisition; Khatereh Motamedchaboki¹; Remco van Soest¹; Robert Proos²; Jason Anspach³; ¹Sciex, Redwood City, CA; ²Sciex, Framingham, MA; ³Phenomenex, Torrance, CA

- ThP 490 Multi-Feature Based Data Processing of Data Independent Acquisition (DIA) Metabolomics

 Data without Retention Time Information; Pradeep

 Narayanaswamy¹; Adam lau²; Lyle Burton²; Stephen Tate²;

 *Industry, Singapore, Singapore; 2SCIEX, Concord, ON
- ThP 491 Reacomics for LC-MS Based Untargeted Analysis; Miao Yu^{1, 2}; Sofia Lendor³; Mariola Olkowicz³; Leslie Bragg³; Anna Roszkowska^{3, 4}; Mark Servos³; Janusz Pawliszyn³; ¹University of Waterloo, Waterloo, ²Icahn School of Medicine at Mount Sinai, New York, NY; ³University of Waterloo, Waterloo, ON; ⁴Medical University of Gdańsk, Gdańsk, Poland
- ThP 492 Effect of a Mediterranean Based Diet on Plasma Metabolites; Francis Briere¹; Nancy Boucher²; Pier-Luc Plante¹; Didier Brassard¹; Simone Lemieux¹,³; Benoit Lamarche¹,³; Jacques Corbeil¹,²; ¹Universite Laval, Quebec, QC; ²Infectiology Research Centre, CHU de Québec, Laval University, Québec, QC; ³Institute of nutrition and functional foods, Université Laval, Québec, QC
- ThP 493 Comprehensive Cell Culture Profiling of iPS Cell Using LC-QTOFMS: Simultaneous Analysis of SIM and Scan Mode in a Single Run; Takanari Hattori¹;
 Toshiya Matsubara¹; Tsuyoshi Nakanishi¹; Jun Watanabe¹;
 ¹Shimadzu Corporation, Kyoto, Japan
- ThP 494 Multi-Omic Analysis of Macrophage and Macrophage Derived Exosomes with Leishmania donovani Infection; Andrew P Kurland¹; Vanessa Rubio¹; Anna Gioseffi¹; Peter Kima¹; Timothy Garrett¹; ¹University of Florida. Gainesville. FL
- ThP 495 Metabolomic Approach to Investigate Alteration in Metabolites Associated with 25-Hydroxyvitamin D in Healthy Korean Adults; Mi-ri Gwon¹; Bo Kyung Kim¹; Seungil Cho¹; Sook Jin Seong¹; Young-ran Yoon¹; 'Kyungpook National University, Daegu, South Korea
- ThP 496 Investigation of Combined Tolcapone Metabolism and Brain Biochemistry Using an Integrated Human Multiorgan Microphysiological System; Xin Wang¹; Murat Cirit¹; John Wishnok¹; Linda Griffith¹; Steven Tannenbaum¹;

 Imassachusetts Institute of Technology, Cambridge, MA
- ThP 497 Beyond Aflatoxins: Untargeted Metabolic Profiling and Time Aligned Parallel fragmentation approach to Determine Gene Function in A. flavus; José Diana Di Mavungu¹; Perng-Kuang Chang²; Leslie L. Scharfenstein²; Natalia Arroyo-Manzanares³; Valdet Uka¹; Sarah De Saeger¹; ¹Ghent University, Ghent, Belgium; ²US Department of Agriculture, Southern Regional Research Center, New Orleans, LA; ³University of Murcia, Murcia, Spain
- ThP 498 Application of Metabolite Derivatization for Simplication of Metabolomics Analysis by LC-MS; Taylor F. Berryhill'; Landon S. Wilson¹; Stephen Barnes¹; 'University of Alabama at Birmingham, Birmingham, AL
- ThP 499 Comparison and Evaluation of CCS Values Obtained via Direct Infusion IM-MS and LC-IM-MS for the Characterization of Rat Urine Metabolites; Leanne Nye¹; Jonathan P Williams²; Nyasha C Munjoma²; Marine PM Letertre¹; Hernando J Olivos³; Muireann Coen¹; Robbin Bouwmeester⁴; Lennart Martens⁴; Jeremy Nicholson⁵; Robert S Plumb⁵; Mike McCullagh²; Lee A Gethings²; Steven Lai³; James I Langridge²; Johannes PC Vissers⁻; Ian D Wilson¹; ¹Imperial College, London, United Kingdom; ²Waters Corporation, Wilmslow, United Kingdom; ³Waters Corporation, Beverly, MA; ⁴Ghent University, Ghent, Belgium; ⁵Murdoch University, Perth, Australia; ʿWaters Corporation, Milford, MA; ¹Waters Corporation, Wilmslow, United Kingdom
- ThP 500 Intelligent Acquisition for Comprehensive Metabolome Coverage in Plants, Mammals, and Bacteria; Tatjana D Talamantes¹; Sven Hackbusch²; Ioanna Ntai²; Amanda



- Souza²; ¹Thermo Fisher Scientific, West Palm Beach, FL; ²Thermo Fisher Scientific, San Jose, CA
- ThP 501 Exploring Nematicidal Metabolites of Nematode-Trapping Fungi with LC-MS/MS-Based Untargeted Metabolomics; Hsin-Yuan Chang¹; Ting-Hao Kuo¹; Ching-Ting Yang²; Yen-Ping Hsueh²; Cheng-Chih Hsu¹; ¹Department of Chemistry, National Taiwan University, Taipei, Taiwan; ²Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan
- ThP 502 High-Throughput and Sensitive Data Independent Acquisition Workflow Differentiating Pre-Classified Healthy from Prediabetic and Diabetes Samples; Khatereh Motamedchaboki¹; Robert Proos²; Sara Ahadi³; Raghav Seghal⁴; Hemen Boro⁴; Abhishek Jha⁴; Latha Palaniappan³; ¹Sciex, Redwood City, CA; ²Sciex, Framingham, MA; ³Stanford University, Palo Alto, CA; ⁴Elucidata, Cambridge, MA
- ThP 503 Using Quality Control Samples for Evaluating
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 Li¹; ¹University of Alberta, Edmonton, AB
- ThP 504 Untargeted Metabolomic Analysis of Brain Sections
 Tissues from Mice with Low-Tryptophan Diet Using
 UHPLC-HRMS; Frederico Garcia Pinto¹; Vanessa Y. Rubio²;
 Gary P Wang²; Timothy J. Garrett²; ¹Universidade Federal
 de Viçosa, Rio Paranaíba, Brazil; ²University of Florida,
 Gainesville, FL
- ThP 505 Rapid Detection of Drugs and Metabolites in Urine by Flow Injection Analysis Coupled to Magnetic Resonance Mass Spectrometry; Matthias Witt¹; Markus Godejohann²; Heino M. Heyman³; Aiko Barsch¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Biospin GmbH, Rheinstetten, Germany; ³Bruker Daltonics Inc., Billerica, MA
- ThP 506 Metabolomics as a Discovery Tool for Bioprospecting and Detection of Defense Compounds During Fungal Infection of Spruce Wood; Marit ALmvik¹; Nina Elisabeth Nagy¹; Hans Ragnar Norli¹; Ari Hietala¹; Sven-Roar Odenmarck¹; Monica Fongen¹; Anas M Kamleh²; ¹Norwegian Institute of Bioeconomy Research (NIBIO), Oslo, Norway; ²Thermo Fisher Scientific Europe, Hagersten, Sweden
- ThP 507 Biological Signal Averaging and PLSDA Variable Statistics in a High-Yield Drought-Tolerant Maize Transgene vs. Wildtype High-Throughput GC-MS Plant Metabolomics Experiment; Brian M. Ruddy¹; Teresa K. Harp¹; Layton A. Peddicord¹; Shai J. Lawit¹; Jingrui Wu¹; Jeffrey E. Habben¹; Jan P. Hazebroek¹; ¹Corteva Agriscience, Johnston, IA
- ThP 508 Assessing the Bioactivity of Environmental Surface Waters by Metabolomics Using Multiple Cell Lines; Yang Yue¹; Jonathan Mosley¹; Paul Bradley²; Jenna Cavallin³; Daniel Villeneuve³; Gerald Ankley³; Drew Ekman¹; Timothy Collette¹; Quincy Teng¹; ¹U.S. Environmental Protection Agency, Athens, GA; ²U.S. Geological Survey, Columbia, SC; ³U.S. Environmental Protection Agency, Duluth, MN
- ThP 509 Challenges of Data Acquisition for Large Set of Untargeted Metabolomics Studies; Linxing Yao¹; Tove Fall²; Erik Ingelsson³; Lars Lind⁴; Jessica E. Prenni⁵; Amy M Sheflin⁵; Corey D. Broeckling¹; ¹Proteomics & Metabolomics Facility, Colorado State University, Fort Collins, CO; ²Department of Medical Sciences, Molecular Epidemiology and Science for Life Laboratory, Uppsala University, Uppsala, Sweden; ³School of Medicine, Stanford University, Stanford, CA; ⁴Department of Medical Sciences, Cardiovascular Epidemiology, Uppsala University,, Uppsala, Sweden; ⁵Department of Horticulture and Landscape Architecture, Colorado State University, Fort Collins, CO
- ThP 510 Using Metabolomics to Assess Physiological Changes Accompanying Cyanide Metabolism in Pseudomonas

- fluorescens NCIMB 11764; Prajita Pandey¹; Lauren Jones¹; Daniel A. Kunz¹; Vladimir Shulaev¹; ¹University of North Texas, Denton, TX
- ThP 511 GC-MS Profiling of Soy-Induced Correlated Changes in the Fecal Metabolome and Gut Microbiome of Ovariectomized Female Rats; Saurav J Sarma^{1, 2}; Victoria J Vieira-Potter³; Tzu-Wen L Cross⁴; Kelly S Swanson^{5, 6}; Zhentian Lei^{1, 2, 7}; Lloyd W Sumner^{1, 2, 7}; Cheryl S Rosenfeld² ^{8, 9, 10}; ¹Metabolomics Center, University of Missouri, Columbia, MO; ²Bond Life Sciences Center, University of Missouri, Columbia, MO; 3Department of Nutrition and Exercise Physiology, University of Missouri, Columbia, MO: 4Department of Bacteriology, University of Wisconsin-Madison, WI, Madison, WI; 5Division of Nutritional Sciences, University of Illinois at Urbana-Champaign, Urbana, IL; 6 Department of Animal Sciences, University of Illinois at Urbana-Champaign, Urbana, IL; ⁷Department of Biochemistry, University of Missouri, Columbia, MO: ⁸Biomedical Sciences, University of Missouri, Columbia, MO; 9Thompson Center for Autism and Neurobehavioral Disorders. University of Missouri. Columbia. MO: 10 Genetics Area Program, University of Missouri, Columbia, Columbia,
- ThP 512 Quantitative Evaluation of Untargeted Metabolomic Methods for Zebrafish Blood; Fuad J Naser¹; Ronald Fowle-Grider¹; Kevin Cho¹; Jonathan L Spalding¹; Gary J Patti¹; ¹Washington University in St. Louis, St. Louis, MO

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- ThP 514 MALDI-MS Proteotyping of Cutibacterium acnes; Kanae Teramoto¹; Tatsuki Okubo¹; Yoshihiro Yamada¹; Sadanori Sekiya¹; Shinichi Iwamoto¹; Koichi Tanaka¹; ¹Shimadzu Corporation, Kyoto, Japan
- ThP 515 Epigenetic "Memory" During Bacterial Adaptation to Environmental Changes; Alena Calm¹; Gabrielle Rizzo²; Trevor Glaros¹; Henry S Gibbons¹; ¹ECBC, Aberdeen Proving Ground, Maryland; ²ECBC, Excet Contractor, Aberdeen Proving Ground, Maryland
- ThP 516 Improved MALDI-MS method in stability and reproducibility of peak detection of the biomarkers for proteotyping of Salmonella serotypes; Yuko Fukuyama¹; Teruyo Ojima-Kato²; Satomi Nagai²; Keisuke Shima¹; Shinji Funatsu¹; Yoshihiro Yamada¹; Hiroto Tamura²; Shizuo Nomura¹; Koretsugu Ogata¹; Sadanori Sekiya¹; Shinichi Iwamoto¹; Koichi Tanaka¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Meijyo University, Nagoya, Japan
- ThP 517 Chemical Changes On, and through, the Bacterial Envelope in *E. coli* Mutants Exhibiting Impaired Plasmid Transfer Identified Using ToF-SIMS; kelly Dimovska Nilsson¹; John Fletcher¹; ¹University of Gothenburg, Gothenburg, Sweden
- ThP 518 Electroporation and LESA-MS: A New Paradigm for Top-Down Analysis of Proteins Direct from Living Yeast Colonies; Klaudia I Kocurek^{1, 2}; Robin C May¹; Helen J Cooper¹; ¹University of Birmingham, Birmingham, United Kingdom; ²Texas A&M University, College Station, TX
- ThP 519 Keeping it Clean: Metaproteomic Characterization of a Microbiome Capable of Degrading Personal Care Product and Pharmaceutical Contaminants found in Water; Kitty J. Brown¹; Karen E. Rossmassler²; Lisa M Wolfe¹; Parker J. Muck¹; Jean F. Challacombe³; Jessica E. Prenni⁴; Susan K. De Long⁵; Corey D. Broeckling¹; ¹Proteomics & Metabolomics Facility, Colorado State



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- ThP 520 Model Based Spectral Library for Bacterial Identification via Membrane Glycolipids; So Young Ryu¹; George A. Wendt^{1, 2}; Robert K. Ernst³; David R. Goodlett³; ¹University of Nevada, Reno, NV; ²University of California, Berkeley, CA; ³University of Maryland, Baltimore, MD
- ThP 521 The Trichomonas vaginalis Cytoskeletal Proteome; <u>Katherine Muratore</u>¹; Patricia Johnson¹; ¹University of California Los Angeles, Los Angeles, CA
- ThP 522 HAMA: High-Throughput Automated Muropeptide Analysis Framework for Revealing Composition of Bacterial Peptidoglycan; Pin-Rui Su¹.²; Ya-Chen Hsu¹; Hsin-Hsiang Chung¹; Yun Lin¹; Tsuey-Ching Yang³; Cheng-Chih Hsu¹; ¹National Taiwan University, Taipei, Taiwan; ²Erasmus MC, Rotterdam, Netherlands; ³National Yang-Ming University, Taipei, Taiwan
- ThP 523 Typing Environmental Microorganisms To Genomic Databases Using MALDI Mass Spectrometry; Kenneth C. Parker; SimulTOF/ VIC Instruments, Marlborough, MA
- ThP 524 Characterization of Lysine Acetylation in Human Gut Microbiome; Xu Zhang¹; Zhibin Ning¹; Janice Mayne¹; Shelley Deeke¹; Krystal Walker¹; David Mack²; Alain Stintzi¹; Daniel Figeys¹; ¹University of Ottawa, Ottawa, ON;

 2Children's Hospital of Eastern Ontario, Ottawa, ON
- ThP 525 Top Down Protein Identification of ESKAPE Pathogens from in vitro Skin Models and ex vivo Human Skin by LESA MS; Jana Havlikova^{1, 2}; Robin C. May^{2, 3}; Iain B. Styles⁴; Helen J. Cooper²; ¹EPSRC Centre for Doctoral Training in Physical Sciences for Health, University of Birmingham, Birmingham, United Kingdom; ²School of Biosciences, University of Birmingham, Birmingham, Birmingham, United Kingdom; ³Institute of Microbiology and Infection, University of Birmingham, Birmingham, United Kingdom; ⁴School of Computer Science, University of Birmingham, Birmingham, United Kingdom
- ThP 526 Cell-Free Identification of *S. cerevisiae* Strains Used in Beer Production using LC-MS; Cathy Muste¹; Kevin Owens¹; **Drexel University, Philadelphia, PA
- ThP 527 Integrated, Multi-Omics Strategy to Study the Gut Microbiota Response to Salmonella enterica Typhimurium Infection in Humanized Mice; Pingli Wei¹; Caitlin Keller¹; Jennifer R. Bratburd²; Rui Liu³; Eugenio Vivas²; Erin Gemperline¹; Federico E. Rey²; Cameron R. Currie²; Lingjun Li¹.⁴; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²Department of Bacteriology, University of Wisconsin-Madison, WI, Madison, WI; ³School of Pharmacy, Nanjing University of Chinese Medicine, Nanjing, China; ⁴School of Pharmacy, University of Wisconsin-Madison, MI
- ThP 528 Characterization of Novel Assembly Mechanisms of a Large Viral Icosahedral Capsid; Erin Reilly¹; Zein Haidar¹; Ru-ching Hsia²; Sammy Pardo³; Dana Molleur³; Susan T. Weintraub³; Julie A. Thomas¹; ¹Rochester Institute of Technology, Rochester, NY; ²University of Maryland School of Dentistry, Baltimore, MD; ³University of Texas Health Science Center at San Antonio, San Antonio, TX
- ThP 529 Molecular Networking Guided Profiling of Metabolic Pathways in Engineered Microorganisms for Industrial Production of Chemical Intermediates; Alexey V. Melnik¹; Bryan Fonslow¹; Ali Khodayari¹; Julia Khandurina¹; Pieter C. Dorrestein²; ¹Genomatica Inc., San Diego, CA; ²UCSD, La Jolla, CA

- ThP 530 Examining the Discrimination Power of MAI, vMAI, and SAI for Identification of Microorganisms; Darrell D. Marshall^{1, 2}; Santosh Karki^{1, 2}; Khoa Hoang^{1, 3}; Milan Pophristic^{1, 3}; Chuping Lee²; Ellen Inutan^{1, 4}; Samantha Leach⁵; Charles N McEwen^{1, 3}; Sarah Trimpin^{1, 2}; ¹MSTM, LLC, Newark, DE; ²Wayne State University, Detroit, MI; ³University of the Sciences, Philadelphia, PA; ⁴MSU-Iligan Institute of Technology, Illigan City, Philippines; ⁵Department of Forensic Sciences, Washington, DC
- ThP 531 Time-Dependent Analysis of Paenarthrobacter nicotinovorans pAO1 Nicotine-Related Proteome;

 Marius Mihasan¹; Cornelia Babii¹; Devika Channaveerappa²;
 Roshanak Aslebagh²; Emmalyn Dupree²; Costel C Darie²;

 ¹Alexandru Ioan Cuza University of Iasi, Iasi, Romania;

 ²Clarkson University, Potsdam
- ThP 532 Real-time, Automated Characterization of Algal Lipidome and Metabolome Using Laser-Assisted Rapid Evaporative Ionization Mass Spectrometry; Julia Balog^{1, 2}; Richard Schäffer¹; Milan Szabo^{3, 4}; Unnikrishnan Kuzhiumparambil³; Steven D Pringle⁵; Peter Ralph³; Zoltan Takats²; ¹Waters Research Center, Budapest, Hungary; ²Imperial College, London, United Kingdom; ³University of Technology Sydney, Sydney, Australia; ⁴Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary; ⁵Waters Corporation, Wilmslow, United Kingdom
- ThP 533 MS-Based Metaproteomics Can Be Integrated with Metagenome Assembled Genomes to Provide Genome Specific Protein Identification in Gut Microbiomes;

 Jose Alfredo Blakeley-Ruiz¹; Carlee S McClintock²; Richard J. Giannone³; Helen A Baghdoyan¹; Ralph Lydic¹; Mircea Podar³; Robert L. Hettich³; ¹University of Tennessee, Knoxville, TN; ²Pain Consultants of East Tennessee, Knoxville, Tennessee; ³Oak Ridge National Laboratory, Oak Ridge, TN
- ThP 534 Characterization of Microorganisms by Proteins and Lipids MALDI-TOF Fingerprints: Case Studies; Vincent Guérineau¹; Morgane Barthélemy¹; Marceau Levasseur¹; Téo Hébra¹; Véronique Eparvier¹; David Touboul¹; ¹CNRS-ICSN, Gif Sur Yvette, France
- ThP 535 Distinguishing Bacteria from Near Neighbors by Paper Spray Mass Spectrometry; Daniel Carmany¹; Ethan M McBride²; Phillip Mach²; Elizabeth S Dhummakupt²; Paul S Demond¹; Gabrielle Rizzo¹; Nicholas E Manicke³; Trevor Glaros²; ¹Excet, Inc., Springfield, VA; ²ECBC, Aberdeen Proving Ground, Maryland; ³IUPUI Department of Chemistry & Chemical Biology, Indianapolis, IN
- ThP 536 Typing/Subtyping Shiga Toxin from Pathogenic

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 K. Fagerquist¹; William J. Zaragoza¹; Michelle Q. Carter¹;

 JUSDA/ARS, Albany, CA
- ThP 537 Developing Sample Preparation Conditions to Analyze a Remarkably Resilient Protein Assembly, the Methanosaeta concilii Sheath; John Muroski¹; Farzaneh Sedighian¹; Robert P. Gunsalus¹; Joe A Loo¹; Rachel R Orgazalek Loo¹; ¹UCLA, Los Angeles, CA
- ThP 538 Influence of Phage SPN3US Infection on the Salmonella Host Proteome; Caleb Emmons¹; Julie A. Thomas²; <u>Susan Ludwigsen</u>¹; Jimar Miller¹; Sammy Pardo³; Dana Molleur³; Susan T. Weintraub³; **Proteome Software, Portland, OR; **Proteome Software, Portland, OR; **Proteome Software, Portland, OR; **Inversity of Texas Health Science Center at San Antonio, San Antonio, TX
- ThP 539 Microbial Synthesis of a Novel Vitamin B9 Derivative and its Immunomodulatory Impact; Abby J. Chiang¹; Daniel Röth¹; Anne E. Hall²; Gabriel B Gugiu¹; James Versalovic².³; Markus Kalkum¹; ¹City of Hope, Duarte, CA; ²Baylor College of Medicine, Houston, Texas; ³Texas Children's Hospital, Houston, Texas

ThP 540 Evidence of Sodium Substitution for Hydrogen in Negative Ion Lipid A Tandem Mass Spectra of Burkholderia thailandensis; Sung Hwan Yoon^{1, 2}; Courtney E. Chandler¹; Inga V. Leus³; Aleksandra Nitalazar²; Helen I. Zgurskaya³; David R. Goodlett¹; Robert K. Ernst¹; ¹University of Maryland, Baltimore, MD; ²NIH/NIAID, Bethesda, Maryland; ³University of Oklahoma, Norman, OK

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- ThP 541 9.4 T FT-ICR Mass Spectrometer with Cluster Ion Source for Analysis of Molecular Nanocarbons; Paul Dunk¹; Yuri E. Corilo¹; Christopher L. Hendrickson¹; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL
- ThP 542 Rapid Determination of Progestogens by Solid-Phase Extraction with Functionalized Metal-Organic Frameworks Coupled to Direct Analysis in Real Time Mass Spectrometry; Linnan Li¹; Yuangui Yang¹; Mei Tian¹; Ruirong Zheng¹; Li Yang¹,²; Zhengtao Wang¹,²; ¹Shanghai University of Traditional Chinese Medicine, Shanghai, China; ²Shanghai R&D Center for Standardization of Chinese Medicines, Shanghai, China
- ThP 543 Preparation of Gas Phase Naked Silver Cluster
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 Protected Clusters in Solution; Madhuri Jash¹;
 Arthur C. Reber²; Atanu Ghosh¹; Depanjan Sarkar¹;
 Mohammad Bodiuzzaman¹; Pallab Basuri¹; Ananya
 Baksi¹; Shiv N. Khanna²; Thalappil Pradeep¹; ¹Indian
 Institute of Technology, Madras, Chennai, India; ²Virginia
 Commonwealth University, Richmond, VA
- ThP 544 Top-Down Phosphoproteomics Enabled by Novel Nanoproteomics Platform; David S Roberts¹; Bifan Chen¹; Timothy N. Tiambeng¹; Zhijie Wu¹; Ying Ge¹.².
 ³; Song Jin¹; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²Department of Cell and Regenerative Biology, University of Wisconsin-Madison, Madison, WI; ³Human Proteomics Program, School of Medicine and Public Health, University of Wisconsin-Madison. Madison. WI
- ThP 545 Determination of Molecular and Topographical Organization on Cicada Wings: Mass Spectrometry's Impact on Material Characterization and Design; Jessica K Román^{1,2}; Jacob B Hoffman²; Julian H Reed²; Nenad Miljkovic³; Donald M Cropek²; Marianne Alleyne³; ¹Sandia National Laboratories, Albuquerque, NM; ²US Army Corps of Engineers, Champaign, IL; ³University of Illinois at Urbana Champaign, Urbana, IL
- ThP 546 Neutrophil Extracellular Trap Formation in the Lung as Response to Magnetic Cobalt Ferrite Nanoparticles;

 Anja M Billing¹; Kristina B Knudsen²; Håkan Wallin³; Selina VY Tang⁴; Iseult Lynch⁵; Ulla Vogel³.⁶; Frank Kjeldsen¹; ¹Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark; ²National Research Centre for the Working Environment, Copenhagen, Denmark; ³National Research Centre for the Working Environment, Copenhagen, Denmark; ⁴Promethean Particles, Nottingham, United Kingdom; ⁵School of Chemistry and Chemical Biology, University College Dublin, Dublin, Ireland; ⁵Department of Micro- and Nanotechnology, Technical University of Denmark, Lyngby, Denmark
- ThP 547 Pre-Adsorption of Antibodies on Nanocarriers:
 Retaining Targeting Properties in a Complex Protein
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 Katharina Landfester¹; Volker Mailänder¹.²; ¹Max Planck
 Institute for Polymer Research, Mainz, Germany; ²University
 of Mainz, Mainz, Germany
- ThP 548 Complementary Molecular Profiling of Neuropeptides and Lipids from Lymnaea stagnalisby LDI-Mass

Spectrometry on Matrix-Assisted and Silicon Nanopost Array Platforms; Ellen A Wood¹; Sylwia A Stopka¹; Akos Vertes¹; ¹The George Washington University, Washington, DC

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 The Dynamic Sampling Platform (DSP) for ESIMS Monitoring of Bioreactors for Therapeutic Cell
 Manufacturing; Mason A Chilmonczyk¹; Gian C Rivera²;
 Peter A Kottke¹; Robert E Guldberg³; Andrei G Fedorov¹;
 ¹Georgia Institute of Technology, Atlanta, GA; ²University
 of Puerto Rico Mayagüez, Mayagüez, PR; ³University of
 Oregon, Eugene, OR
- ThP 551 Deep and Sensitive Proteomics Using Capillary Electrophoresis-Mass Spectrometry with the Identification of 7000 Proteins from nanograms of MCF7 Proteome Digests; Zhichang Yang¹; Xiaojing Shen¹; Daoyang Yang¹; Liangliang Sun¹; ¹Michigan State University, East Lansing
- ThP 552 Extending the Lower Limits of Quantification of a Therapeutic Oligonucleotide through Microflow LC-MS/MS; Daniel Warren¹; Sean McCarthy²; Lei Xiong³; Anthony Romanelli²; ¹AB SCIEX, Framingham; ²Sciex, Framingham, MA; ³Sciex, Redwood City, CA
- ThP 553 Water and Temperature-Assisted Trap Focusing for Ultra-Large Volume Injection in Reversed-Phase Nano-Liquid Chromatography Mass-Spectrometry; Veronica Termopoli¹; Pierangela Palma¹; Giorgio Famiglini¹; Gian Luca Morini²; Pamela Vocale³; Mansoor Saeed⁴; Simon Perry⁴; Achille Cappiello¹; ¹University of Urbino, Urbino, Italy; ²University of Bologna, Bologna, Italy; ³University of Parma, Parma, Italy; ⁴Syngenta Jealott's Hill International Research Centre, Bracknell, United Kingdom
- ThP 554 ESI-MS Intracellular Metabolite Profiling for Therapeutic Cell Manufacturingvia Microfabricated Mass Exchanger; Austin L Culberson¹; Mason A Chilmonczyk¹; Peter A Kottke¹; Andrei G Fedorov¹; ¹Georgia Institute of Technology, Atlanta, GA
- ThP 555 Rapid Characterization of Recombinant Protein Processing Using Microchip-Based Capillary Electrophoresis-ESI-MS; David McCaskill¹; Vimbai Chikwana¹; Jeffrey Gilbert¹; ¹Corteva Agriscience, Indianapolis. IN
- ThP 556 High-Sensitivity Glycomic and Proteomic Profiling of Limited Biological Samples Using Capillary Zone Electrophoresis-Mass Spectrometry; Anne-Lise Marie¹; Kendall Johnson¹; Marcia Santos²; Somak Ray¹; Antonius Koller¹; David Frank³; Helen Gandler³; Shulin Lu³; John Tigges³; Ionita Ghiran³; Alexander R Ivanov¹; ¹Northeastern University, Boston, MA; ²Sciex, Brea, CA; ³Harvard Medical School. boston. MA
- ThP 557 Microchip Capillary Electrophoresis-Negative
 Electrospray Ionization-Mass Spectrometry for High
 Sensitivity Anion Detection; Yury Desyaterik¹; Jean Pierre
 Alarie¹; J. Michael Ramsey¹; 'UNC, Chapel Hill, NC
- ThP 558 Monitoring Amino Acid Composition of Cell Culture Media using Microfluidic CE-MS; Erin Redman¹; Kathryn Elliot²; Cameron Schnabel²; Sarah Harcum²; J. Scott Mellors¹; Glenn Harris³; ¹908 Devices, Inc., Carrboro, NC; ²Department of Bioengineering, Clemson University, Clemson, SC; ³908 Devices, Boston, MA
- ThP 559 Multilevel Characterization and Identification of Trastuzumab Posttranslational Modifications by Imaged cIEF-MS; Erik Gentalen¹; Steve Lacy¹; Jennifer Ji¹; Lena Wu¹; Scott Mack¹; ¹Intabio, Inc., Newark, CA



- ThP 560 High-Sensitivity Analysis of Durgs in Ultra-Small Volumes Plasma Samples using Micro-Flow LC-MS/ MS; Davide Vecchietti¹; Mikaël Levi¹; Hidetoshi Terada¹; Jonathan Edwardsen²; Keiko Matsumoto¹; Kyoko Watanabe¹; Masami Tomita¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Scientific Instruments, Inc., Columbia, Maryland
- ThP 561 Integrating Nanofluidic/Microfluidic Interface
 Concentrators/Microreactor with ESI-MS for Proteome
 Analysis; <u>Dayi Chen</u>¹; Kantaphon Suddhapas¹; Timothy J
 Fogliatti¹; Aaron T Timperman¹; ¹University of Illinois Urbana-Champaign, Urbana, IL
- ThP 562 In-syringe ElectrokineticClean-up of Weakly Acidic Drugs in Biological Samples for Direct Injection Electrospray Ionization Mass Spectrometry; Ibraam E.

 Mikhail^{1, 2, 3}; Masoomeh Tehranirokh^{1, 4}; Andrew A Gooley^{1, 4}; Rosanne M Guijt^{1, 5}; Michael C Breadmore^{1, 2}; ¹ARC Training Centre for Portable Analytical Separation Technologies (ASTech), Hobart, Australia; ²Australian Centre for Research on Separation Science (ACROSS), School of Physical Sciences (Chemistry), University of Tasmania, Hobart, Australia; ³Department of Analytical Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt; ⁴Trajan Scientific and Medical, Ringwood, Australia; ⁵Centre for Regional and Rural Futures, Deakin University, Geelong, Australia
- ThP 563 High-Throughput Proteome Analysis Using 50 cm
 Long Micro Pillar Array Columns (μPACTM); Jeff Op
 De Beeck¹; Geert Van Raemdonck¹; Paul Jacobs¹; Gert
 Desmet²; Wim De Malsche²; Francis Impens³; Kris Gevaert³;

 ¹PharmaFluidics, Ghent, Belgium; ²Vrije Universiteit
 Brussel, Brussels, Belgium; ³VIB-UGent Center for Medical
 Biotechnology, Ghent, Belgium
- ThP 564 Microchip Integration of Imaged cIEF with Mass Spectrometry Accelerates the Identification of Charge Variants in Intact Monoclonal Antibodies; Scott Mack¹; Steve Lacy¹; Jennifer Ji¹; Guillaume Tremintin²; Lena Wu¹; Erik Gentalen¹; *Intabio, Inc., Newark, CA; *2Bruker Daltonics Inc., Billerica, MA
- ThP 565 Analysis of Peptides Using Nano LC with Micro Pillar Array Columns (μPAC™) and Microsaic Real-Time 4500 MiD® Mass Spectrometer; Victoria Ordsmith¹; Bin Chen¹; Chris Harris¹; ¹Microsaic Systems, Woking, United Kingdom
- ThP 566 Ultra-Sensitive Deep LC-MS Proteomic Profiling Using Ultra-Low Flow Monolithic and Porous-Layer Open Tubular Capillary Columns; Michal Gregus¹; Antonius Koller¹; Alexander R Ivanov¹; **Northeastern University, Boston, MA**

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- ThP 567 Cytochrome P450 Inhibition by Licorice Glycyrrhiza uralensis Fisch. ex DC.; Luying Chen¹.²; Laura Tyler²; Dejan Nikolic²; Guido F. Pauli²; Richard B. van Breemen¹.²; ¹Linus Pauling Institute, College of Pharmacy, Oregon State University, Corvallis, OR; ²UIC/NIH Center for Botanical Dietary Supplements Research, Chicago, IL
- ThP 568 Unequivocal identification of alkylpyrazines by Gas Chromatography-Mass Spectrometry (GC-MS); Sihang Xu¹; Athula Attygalle¹; Ramu Errabelli²; ¹Stevens Institute of Technology, Hoboken, NJ; ²SGS New Jersey laboratory, Fairfield. NJ
- ThP 569 Automation and Application of Magnetic Based Affinity Selection Screening for Targets of Retinoid X Receptor alpha (RXRa); Ruth N Muchiri¹; Jaewoo Choi¹; Katherine A Carter¹; Brett M Tyler¹; Richard B. van Breemen¹; ¹Oregon State University, Corvallis, OR
- ThP 570 PepSAVI-MS Reveals a Novel Antimicrobial Peptide from Amaranth; Lilian R. Heil¹; Tessa E. Bartges¹; Christine L. Kirkpatrick¹; Nicole C. Parsley¹; Dennis Goldfarb²; Leslie

- M Hicks¹; ¹Department of Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC; ²Department of Cell Biology and Physiology, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- ThP 571 Finding Alkaloids in Plant Extracts by LC-QToF Mass Spectrometry in Combination with Mass Defect Analysis; Armando Alcazar Magana^{1,2}; Bayissi Bading-Taika³; Jaewoo Choi¹; Cristobal L. Miranda¹; Claudia S. Maier²; Jan F. Stevens¹; ¹Linus Pauling Institute, College of Pharmacy, Oregon State University, Corvallis, OR; ²Department of Chemistry, Oregon State University, Corvallis, Oregon; ³Department of Clinical and Pharmaceutical Sciences, School of Life and Medical Sciences, University of Hertfordshire, Hertfordshire, United Kingdom
- ThP 572 LC-MS-Based Analysis of Antimicrobial Compounds
 Produced by Streptomyces coelicolor Harboring
 Metagenome-Derived Biosynthetic Gene Clusters;
 Angela I Calderon¹; Megan Sandoval-Powers¹; Yilue Zhang¹;
 Hannah Kim¹; Alinne Santana-Pereira¹; Mark Liles¹; David
 Mead²; ¹Auburn University, Auburn, Alabama; ²Varigen
 Biosciences Corporation, Madison, WI
- ThP 573 Ozone-Induced Dissociation Mass Spectrometry as a New Tool to Determine the C=C Double Bond Locations in Natural Products; Ngoc Vu¹; Sonja Knowles¹; Nicholas Oberlies¹; Qibin Zhang¹.²; ¹UNC Greensboro, Greensboro, NC; ²Center for Translational Biomedical Research, Kannapolis, NC
- ThP 574 LC-MS-Based Chemical Characterization of
 Constituents of Açaí Methanol Extract and Metabolites
 Obtained from an *in vitro* Intestinal First-Pass
 Metabolism Study; Yilue Zhang¹; Turner Shirley¹;
 Tyler Wietlake¹; Richard A. Hansen²; Jingjing Qian²;
 Angela I. Calderon¹; ¹Department of Drug Discovery and
 Development, Auburn University, Auburn, AL; ²Department
 of Health Outcomes Research and Policy, Auburn University,
 Auburn, AL
- ThP 575 LC-HRMS followed by Enhanced Product Ion Scanning for Flavonoids Profiling of Primula boveana; Ehab Mahran¹-²; Michael Keusgen¹; ¹Institute of Pharmacy, Philipps-Universität Marburg, Marburg, Germany; ²Faculty of Pharmacy, Al-Azhar University, Nasr city, Egypt
- ThP 576 Identification of Biofilm-Stimulating Peptides from Bacillus cereus with PepSAVI-MS; Tessa E. Bartges¹; Steven R. Fleming¹; Sarah A. Barr¹; Elizabeth A. Shank¹; Albert A. Bowers¹; Leslie M. Hicks¹; ¹University of North Carolina. Chapel Hill. NC
- ThP 577 Determination and Visualization of Components from a Medical Fungus Using High-Performance Liquid Chromatography Mass Spectrometry and Imaging Mass Spectrometry; Jing Dong¹; Satoshi Yamaki¹; Xiaodong Li¹; Naoki Hamada¹; ¹SHIMADZU CHINA MS CENTER, Beijing, China
- ThP 578 Using Ozone Induced Dissociation Mass Spectrometry (OzID-MS) for Natural Product Analysis: Pure Compound, Complex Extract, and in situ; Sonja L. Knowles¹; Ngoc Vu¹; Daniel A. Todd¹; Huzefa A. Raja¹; Antonis Rokas²; Qibin Zhang¹.³; Nicholas H. Oberlies¹; ¹University of North Carolina at Greensboro, Greensboro, NC; ²Vanderbilt University, Nashville, TN; ³Center for Translational Biomedical Research, Kannapolis, NC
- ThP 579 Isolation and Identification of Naphthomycins
 Production by Actinomycetes as Antifungal Compounds
 against Colletotrichum acutatum; Fernando L.S. Fugita¹;
 Nicolas L. M. Freiria¹; Luiz A.B. Moraes¹; ¹Faculty of
 Philosophy, Sciences and Letters at Ribeirao Preto (USP),
 Ribeirão Preto, Brazil
- ThP 580 Bacteria Fight Club: Mapping Microbial Interactions for Drug Discovery; Berkley Ellis¹; Caleb N Fischer¹; Brian



- O Bachmann¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN
- ThP 581 Analysis of Diterpenoids in *Tripterygium wilfordii* by Supercritical Fluid Chromatography Coupling Tandem Mass Spectrometry; Lingna Ke¹; Ming Yuan²; Qing Fu¹; Zhengwei Jia²; Yu Jin¹; ¹East China University of Science and Technology, Shanghai, China; ²Waters Technologies (Shanghai) Co, Ltd, Shanghai, China
- ThP 582 Modulation of the Secondary Metabolites Production in Streptomyces Caat 8-25 under Metal Stress by LC-MS/MS; Talita C. T. Medeiros¹; Bruna B. Loiola¹; Luiz A.B. Moraes¹; ¹Faculty of Philosophy, Sciences and Letters at Ribeirao Preto (USP), Ribeirão Preto, Brazil
- ThP 583 Determination of Artemisinin and Its Precursors in Artemisia annua L using LC/MS/MS; Huihua Ji¹; Lowell Bush¹; Neil Fannin¹; ¹University of Kentucky, Lexington, KY
- ThP 584 Putative Identification of Phenolic Compounds and Evaluation of Antioxidant, Anti-Inflammatory and Neuroprotective Activities of Extracts of 3 Endemic Colombian Fruits; Daniel Esteban Arias; Professor, Bogota, Colombia
- ThP 585 Using Dereplication for Targeted and Untargeted Re-Isolation of Fungal Secondary Metabolites; Allison J. Wright'; Sonja L. Knowles¹; Huzefa A. Raja¹; Nicholas H. Oberlies¹; ¹University of North Carolina at Greensboro, Greensboro, NC
- ThP 586 Screening of a Natural Product Library for Antimicrobial Activity Targeting Metal Homeostasis; Charles Veltri¹; Maria Lozoya¹; Jennifer Foster²; Pete Manchen²; Cynthia Reck³; Genna Gallas³; Andrew Salywon⁴; Jose Hernandez³;

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- ThP 587 Uptake and Health Effects of Phytochemicals in Honey Bees and Their Larvae Investigated by LC-QTRAP-MS Quantitation and GC-TOF-MS Metabolomics; Nanna H Vidkjaer¹; Per Kryger¹; Inge S Fomsgaard¹; ¹Aarhus University, Slagelse, Denmark
- ThP 588 Enhancing Confidence in Screening and Quantitation of Phytochemicals in Herbal Extracts by Nominal Mass LC-MS/MS; Prasanth Joseph¹; Saikat Banerjee¹; Samir Vyas¹; ¹Agilent Technologies, Whitefield, Bengaluru, India
- ThP 589 Rapid Characterization of Valeriana jatamansi Jones
 Using Online Supercritical Fluid Extraction-High
 Performance Liquid Chromatography Combined
 with High Resolution Mass Spectrometry; Jing Dong¹;
 Shizhong Chen²; Naoki Hamada¹; Xiaodong Li¹; Satoshi
 Yamaki¹; ¹SHIMADZU CHINA MS CENTER, Beijing, China;
 ²Peking University, Beijing, China

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- ThP 590 Determination of Length and Composition of polyA
 Tails in Phosphate-Modified in vitro Transcribed
 mRNAs using LC-MS/MS; Dominika Strzelecka¹; Miroslaw
 Smietanski²; Marcin Warminski¹; Pawel Jan Sikorski²;
 Joanna Kowalska¹; Jacek Jemielity²; ¹Faculty of Physics,
 University of Warsaw, Warsaw, Poland; ²Centre of New
 Technologies, University of Warsaw, Warsaw, Poland
- ThP 591 The Effect of G-Quadruplexes on the Stability of Adjacent DNA Domains Studied by Temperature-Controlled nanoESI-MS; Adam Pruška¹; Adrien Marchand¹; Renato Zenobi¹; ¹ETH Zurich, Zurich, Switzerland
- ThP 592 Rapid Detection of Ribonucleoside Modifications by Liquid Chromatography Higher-Energy Collisional Dissociation Mass Spectrometry and Spectral Matching; Manasses Jora¹; Peter A. Lobue¹; Robert L. Ross¹; Balasubrahmanyam Addepalli¹; Patrick A. Limbach¹;

- ¹Department of Chemistry, University of Cincinnati, Cincinnati, OH
- ThP 593 Gas Phase Fractionation to Increase Sensitivity of a Data Dependent-Constant Neutral Loss-MS3(DDA-CNL/MS3) DNA Adductomic Analysis; Valeria Guidolin¹; Peter W. Villalta²; Foster Jacobs²; Silvia Balbo^{1, 2}; ¹School of Public Health, University of Minnesota, Minneapolis, MN; ²Masonic Cancer Center, Minneapolis, Minnesota
- ThP 594 High Performance Oligonucleotide Analysis by HILIC-MS: Ion-Pairing Reagents Not Required; Peter A. Lobue¹; Manasses Jora¹; Balasubrahmanyam Addepalli¹; Patrick A. Limbach¹; ¹Department of Chemistry, University of Cincinnati, Cincinnati, OH
- ThP 595 Construction of A New Porous Covalent Organic Polymer via Schiff-base Reaction and Its Application in Desalination of Oligonucleotides; Li-Juan Wang^{1,2}; Qian-Yu Zhou¹; Yu-Fang Ma¹; Yue Yu¹; Ying-Lin Zhou¹; Xin-Xiang Zhang¹; ¹Peking University, Beijing, China; ²Hebei University, Baoding, China
- ThP 596 LC-MS Detection of UV-Induced Oxidative Damage to Ribosomal RNA; Mariana Bonafim Piveta¹; Manasses Jora¹; Patrick A Limbach¹; Balasubrahmanyam Addepalli¹; ¹University of Cincinnati, Cincinnati, OH
- ThP 597 Enzymatic Labeling of Oligonucleotides for Multiplexed LC-MS/MS; Scott Abernathy¹; Kayla M. Borland²; Peter A. Lobue¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH; ²Ludwig-Maximilians-University Munich, Munich, Germany
- ThP 598 Improving Transfer RNA Isolation for more Accurate LC-MS/MS Characterization of Modified Nucleosides;
 Ruoxia Zhao¹; Robert L. Ross¹; Andrew Wood¹; Manasses Jora¹; Patrick A Limbach¹; ¹University of Cincinnati, Cincinnati, OH
- ThP 599 Development of High-Sensitive and High-Throughput
 Quantitative Analysis Method of Modified Nucleosides
 Using UHPLC-UniSpray /MS/MS; Takahiro kogaki¹; Ikumi
 Oshio¹; Souta Iyama¹; Hiroaki Hase¹; Kentaro Jingushi²;
 Yuko Ueda¹; Zenzaburo Tozuka¹; Daisuke Saigusa³;
 Kazutake Tsujikawa¹; ¹Mol. Cell. Physiol., Grad. Sch.
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 Medicine, Osaka University, Suita, Japan; ³Department
 of Integrative Genomics, Tohoku Medical Megabank
 Organization, Tohoku University, Sendai, Japan
- ThP 600 Accurate Mass Determination of Long DNA Fragments
 Prepared for Structural Biology Study of Epigenetic
 DNA Methylation; Hiroshi Ushijima¹; Rena Maekawa¹;
 Eri Igarashi¹; Satoko Akashi¹; ¹Yokohama City University,
 Yokohama, Japan
- ThP 601 A Software Platform for the Quality Control of Synthetic Oligonucleotides; Detlev Suckau¹; Sam Kyritsoglou²; Yue Ju³; Guillaume Tremintin³; Anjali Alving⁴; Michael Greig³; Robert Kane³; ¹Bruker Daltonics, Bremen, Germany; ²Kaneka Eurogentec SA, Liège, Belgium; ³Bruker Scientific, San Jose, CA; ⁴Bruker Daltonics Inc., Billerica, MA
- ThP 602 Investigation of Matrix Conditions for Nucleic Acid Analysis in Positive Ion Detection Using a Linear Benchtop MALDI-TOFMS; Shuichi Nakaya¹; Akihiro Kunisawa²; Zenzaburo Tozuka²; Yuzo Yamazaki¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Analytical Innovation Research Laboratory, Osaka University, Suita, Japan
- ThP 603 Pytheas: Software to Analyze and Map RNA Post-Transcriptional Modifications with Tandem MS and Stable Isotope Labelling; Luigi D'Ascenzo, Ph.D. 1; Anna Popova, Ph.D. 1; James R. Williamson, Ph.D. 1; 1The Scripps Research Institute, La Jolla, CA
- ThP 604 Leveraging Ion-tagged Oligonucleotides and Mass Spectrometry for the Detection of RNA Modifications; Kevin D. Clark¹; Colin Lee²; Jonathan V. Sweedler¹.²;

ATLANTA

- ¹Beckman Institute, Urbana, IL; ²University of Illinois at Urbana-Champaign, Urbana, IL
- ThP 605 Mass Spectrometry-Based Identification of Mono-Methylated RNA Nucleoside Positional Isomers:
 Application for Structural Analysis of RNA Modifications in the Leishmania ribosome; Hiroshi Nakayama¹;
 Yoshio Yamauchi²; Yuko Nobe²; Masami Koike¹; Nobuhiro Takahashi³; Moran Shalev-Benami⁴; Toshiaki Isobe²; Masato Taoka²; ¹RIKEN Center for Sustainable Resource Science, Wako, Japan; ²Tokyo Metropolitan University, Hachioji, Japan; ³Tokyo University of Agriculture and Technology, Fuchu, Japan; ⁴Weizmann Institute of Science, Rehovot,
- ThP 606 High-throughput Oligonucleotide Analysis using RapidFire/TOF MS and OligoSearch Software; Peter Rye¹; Jim Lau²; Tony Brand³; ¹Agilent Technologies, Lexington, MA; ²Agilent Technologies, Wilmington, DE; ³Agilent Technologies, Raleigh-Durham, NC
- ThP 607 Simultaneous Quantification of dA-Ap and dG-Ap Interstrand Cross-Links in Cellular and Tissue DNA;
 Su Guo¹; Jiapeng Leng¹; Yinsheng Wang¹; ¹UC Riverside,
 Riverside
- ThP 608 Multiplex Quantification of RNA Methylation by
 Targeted Mass Spectrometry; Jerome Vialaret¹; Aurore
 Attina¹; Helene Guillorit²; Amandine Bastide²; Sebastien
 Relier²; Jean Jacques Vasseur³; Francoise Debart³; Sylvain
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 Génomique Fonctionnelle, Montpellier, France; ³Institut des
 Biomolécules Max Mousseron, Montpellier, France
- ThP 609 Ultraviolet Photodissociation of Silver Nanocluster/
 DNA Complexes; Ines C Santos¹; Molly S Blevins¹; John
 Armstrong¹; Christopher M Crittenden¹; Jennifer S Brodbelt²;

 ¹University of Texas at Austin, Department of Chemistry,
 Austin, TX; ²The University of Texas, Austin, TX
- ThP 610 MALDI MS Study of Activity of DNA Specific Enzymes in the Vicinity of G-Quadruplex Structures; Alexandra V. Sekridova¹; Galina E. Pozmogova²; Igor P. Smirnov²; ¹Institute of agricultural biotechnology, Moscow, Russia; ²Research and Clinical Center for Physical-Chemical Medicine, Moscow, Russia
- ThP 611 Collision-Induced Dissociation Studies of protonated ions of Alkylated Thymidine and 2'-deoxyguanosine;

 Yuxiang Cui¹; Jun Yuan¹; Pengcheng Wang¹; Jun Wu¹; Yang Yu¹; Yinsheng Wang¹; ¹University of California, Riverside, Riverside, CA

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- ThP 612 Metal Cationization of Immunopeptides for Improved Dissociation and Measurement by Differential Ion Mobility-Mass Spectrometry; James E. Keating¹; Chris Chung¹; Shengjie Chai²; Benjamin G. Vincent³; Sally A. Hunsucker³; Paul M. Armistead³; Gary L. Glish¹; ¹Department of Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC; ²Curriculum in Genetics & Molecular Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC; ³Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, NC
- ThP 613 Investigation of CID and HCD Tandem Mass Spectra of Double Derivatized Histone (H3) Model Peptide Using High-Resolution Hybrid Mass Spectrometer; Leila Afjehi-Sadat¹; Benjamin A Garcia¹; ¹University of Pennsylvania, Philadelphia, PA
- ThP 614 Comparative Study of Average Probabilities of Fragment Ion Formation in Peptides with Different Aspartate Isoforms; Daniil Ivanov¹; Stanislav Pekov^{1, 2}; Maria Indeykina^{1, 3}; Anna Bugrova³; Alexey Kononikhin^{1, 2, 3}; Igor Popov^{1, 2}; Eugene (evgeny) Nikolaev⁴; **Imoscow Institute of

- Physics and Technology (State University), Dolgoprudny, Russia; ²Institute for Energy Problems of Chemical Physics RAS, Moscow, Russia; ³Institute of Biochemical Physics RAS, Moscow, Russia; ⁴Skolkovo institute of science and technology, Moscow Region, Russian Federation
- ThP 615 Combined Density Functional and Statistical Analyses of Doubly Protonated Tryptic Peptide Series; Shanshan Guan¹; Benjamin J Bythell¹; ¹University of Missouri, St. Louis, St. Louis, MO
- ThP 616 Fast and Accurate MS² Peak Intensity Prediction for Multiple Fragmentation Methods, Instruments and Labeling Techniques; Ralf Gabriels¹.²; Lennart Martens¹.²; Sven Degroeve¹.²; ¹VIB-UGent Center for Medical Biotechnology, Ghent, Belgium; ²Department of Biomolecular Medicine, Ghent University, Ghent, Belgium
- ThP 617 Optimizing Parallel HCD and ETD with supplemental HCD Data Acquisition using the Tribrid Oritrap Lumos;

 Lauren R. DeVine¹; Robert N. Cole¹; ¹Johns Hopkins
 University School of Medicine, Baltimore, MD

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- ThP 618 Nanoscale Ion Emitters in Native Mass Spectrometry for Measuring Ligand-Protein Binding Affinities; Giang Nguyen¹; Thinh N. Tran²; Matthew N. Podgorski³; Stephen G. Bell³; Claudiu T. Supuran⁴; William A. Donald¹; ¹School of Chemistry, University of New South Wales, Sydney, NSW, Australia; ²School of Electrical Engineering and Telecommunications, University of New South Wales, Sydney, NSW, Australia; ³Department of Chemistry, University of Adelaide, Adelaide, Australia; ⁴University of Florence, Department of Neuroscience, Psychology, Drug Research and Child's Health, Section of Pharmaceutical and Nutraceutical Sciences, Via Ugo Schiff 6, Sesto Fiorentino, Italy
- ThP 619 Investigating the Interactions of the First 17 Residues of Huntingtin with Lipid Vesicles Using ESI-MS Experiments and MD Simulations.; Ahmad Kiani Karanji¹; Maryssa Beasely¹; Ali Ranjbaran²; Justin Legleiter¹; Stephen Valentine¹; ¹West Virginia University.C. Eugene Bennett Department of Chemistry, Morgantown, WV; ²West Virginia University. Morgantown, WV
- ThP 620 Intact Transition Epitope Mapping Targeted High-Energy Rupture of Extracted Epitopes (ITEM - THREE); Bright D. Danquah¹; Claudia Röwer¹; Kwabena F.M. Opuni²; Reham A. El-Kased³; Harald Illges⁴; Cornelia Koy¹; Michael O. Glocker¹; ¹Proteome Center Rostock, Rostock, Germany; ²School of Pharmacy, University of Ghana, Legon, Ghana; ³Microbiology and Immunology Faculty of Pharmacy, The British University in Egypt, Cairo, Egypt; ⁴University of Applied Sciences Bonn-Rhein-Sieg, Bonn, Germany
- ThP 621 The Application of Direct MS for the Investigation of Complex Biological Systems; Gili Ben-Nissan¹; Jelena Cvetichanin¹; Ravit Netzer¹; Sarel J Fleishman¹; Michal Sharon¹; **Weizmann Institute of Science, Rehovot, Israel
- ThP 622 Uniting Microchip Capillary Electrophoresis-MS and Ultraviolet Photodissociation Technologies for Online Separation and Characterization of Native Protein Complexes; M. Rachel Mehaffey¹; Ashley Bell²; J. Scott Mellors²; Michael B. Lanzillotti¹; Jennifer S. Brodbelt¹; ¹The University of Texas at Austin, Austin, TX; ²908 Devices, Boston, MA
- ThP 623 Native Ion-Mobility Mass Spectrometry of Staph. Aureus Alpha-Hemolysin Membrane Pore Complexes; Jesse W Wilson¹; Amber D Rolland¹; Grant M Klausen¹; Alexander S Skochko¹; James S Prell¹; ¹University of Oregon Department of Chemistry and Biochemistry, Eugene, OR
- ThP 624 Determination of Protein-Brain Ganglioside Interactions by Chip-Based Nanoelectrospray Quadrupole-Time-of-



- ThP 625 High Resolution Mass Spectrometry Cellular Thermal Shift Assay (HR-MS-CETSA)- Impact of Phosphorylation on Thermal Protein Stability; Yan Ting Lim¹; Tianyun Zhao²; Wint Wint Phoo¹; Lingyun Dai²; Loo Chien Wang¹; Liyan Chen¹; Par Nordlund¹.².³; Radoslaw Sobota¹; ¹Institute of Molecular and Cell Biology Agency for Science, Technology and Research (A*STAR), Singapore, Singapore; ²School of Biological Sciences, Nanyang Technological University, Singapore, Singapore, Singapore; ³Karolinska Institutet, Department of Oncology-Pathology, Stockholm, Sweden
- ThP 626 Data-Driven Detection of Functional Proteoforms in SEC-SWATH-MS Data; Isabell Bludau¹; Max Frank¹.²; Moritz Heusel¹; Yujia Cai²; George Rosenberger³; Yansheng Liu⁴; Ashok Venkitaraman⁵; Vihandha Wickramasinghe⁶; Ben C Collins¹; Hannes Roest²; Ruedi Aebersold¹.ʔ; ¹ETH Zurich, Zurich, Switzerland; ²Donnelly Centre for Cellular and Biomolecular Research, University of Toronto, ON; ³Columbia University, New York, NY; ⁴Yale University, New Haven; ⁵Medical Research Council Cancer Unit, University of Cambridge, Cambridge, United Kingdom; °Peter MacCallum Cancer Centre, Melbourne, Australia; ¹University of Zurich, Zurich, Switzerland
- ThP 627 Real-Time Enzymatic Catalysis by Variable-Temperature Nano-Electrospray Ionization Ion Mobility Spectrometry-Mass Spectrometry; Brooke A. Brown¹; Christopher R. Conant¹; Tarick J. El-Baba¹; Daniel W. Woodall¹; David E. Clemmer¹; ¹Indiana University, Bloomington, IN
- ThP 628 UVPD-MS of Protein-Ligand Complexes Governed by Different Binding Modes and Affinities; Ines C Santos¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- ThP 629 Identifying Protein Complexes of Endocrine Disrupting Organotin Compounds Using Mild LC-MS Techniques;

 Jonas M. Will¹; Michael Sperling¹.²; Uwe Karst¹; ¹University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany; ²European Virtual Institute for Speciation Analysis (EVISA), Muenster, Germany
- ThP 630 Investigation of Charge Partitioning from Gas-phase Dissociation of Dimeric Proteins; Mengxuan Jia¹; Chen Du¹; Yang Song¹; Zibo Chen²; David Baker²; Vicki H. Wysocki¹.³; ¹Department of Chemistry and Biochemistry, The Ohio State University, Columbus, OH; ²Department of Biochemistry, University of Washington, Seattle, WA; ³Resource for Native Mass Spectrometry Guided Structural Biology, Columbus, OH
- ThP 631 Identification of Smyd1's Chromatin Binding Partners via ChIP-MS; Anna Bakhtina¹; Aman Makaju²; Sarah Franklin³; ¹University of Utah, Salt Lake City, UT; ²University of Utah School of Medicine, Department of Biochemistry, Salt Lake City, Utah; ³University of Utah School of Medicine, Salt Lake City, UT
- ThP 632 High Resolution Structural Footprinting for 15-PGDH Inhibitor Binding Site Assessment; Janna Kiselar¹; Joseph Ready²; Yuan Yiyuan¹; Mark R Chance¹; Sanford Markowitz¹; ¹Case Western Reserve Univ, Cleveland, OH; ²UT Southwestern, Dallas, TX
- ThP 633 Integrated Structural Proteomics and Dynamics of a Solid-Body Organism by Combined XLMS, Solvent Accessible Surface Modification and QconCAT; Yeva Mirzakhanyan¹; Paul Gershon¹; 'IUC-Irvine, Irvine, CA
- ThP 634 Analysis of Human Nuclear Protein Complexes by Quantitative Mass Spectrometry Profiling; Katelyn E. Connelly¹; Victoria Hedrick²; Tiago J. P. Sobreira²; Emily

- C. Dykhuizen, ¹; <u>Uma K. Aryal</u>²; ¹Department of Medicinal Chemistry and Molecular Pharmacology Purdue University, West Lafayette, IN; ²Purdue Proteomics Facility, Bindley Bioscience Center, West Lafayette, IN
- ThP 635 Characterization of Protein-Ligand Binding Interactions of Polyphenol Inhibitors of Fabl by Molecular Docking Simulations and Native MS; P. Matthew Joyner¹; Denise P. Tran²; Joseph A. Loo²; ¹Pepperdine University, Malibu, CA; ²UCLA, Los Angeles, CA

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- ThP 636 Native Mass Spectrometry Analysis of Protein and Protein Complexes Formed from Non-volatile Salt Buffers through use of Gábor Transformation; Sean P. Cleary¹; Jesse W Wilson¹; James S Prell¹; ¹University of Oregon, Eugene
- ThP 637 Integrated Structural Biology Study of Roundabout1 Interaction with Fondaparinux; Robert Williams¹;
 Jeong Yeh Yang¹; Yunyun Gao²; Arwen Pearson²; Kelley Moremen¹; James H. Prestegard¹; I. Jonathan Amster¹;
 ¹University of Georgia, Athens, GA; ²University of Hamburg, Hamburg, Germany
- ThP 638 Unexpected Asp-isomerization Behavior in Monoclonal Antibodies: Connecting Primary Sequence with High Order Structure and Molecular Dynamics; Andrew D Mahan¹; Dorina Saro¹; Jeffrey Brelsford¹; Weiping Shen¹; Sandeep Somani¹; Hirsh Nanda¹; ¹Janssen R&D, Spring House, PA
- ThP 639 Structural Characterization of Ternary Complexes for Selective Protein Degradation by Hydrogen-Deuterium Exchange Mass Spectrometry; Jing Li¹; Aaron Balog¹; Louis Lombardo¹; John Newitt¹; Mark Witmer¹; Guodong Chen¹; 'Bristol-Myers Squibb, Princeton, NJ
- ThP 640 Native Ion Mobility Mass Spectrometry as a Powerful Tool to Dissect α-Synuclein Conformational Space Small Molecules, Metal Ions, PTMs; Rani Moons¹; Albert Konijnenberg¹; Anne-Marie Lambeir²; Frank Sobott¹.³, ⁴; ¹Biomolecular and Analytical Mass Spectrometry group, University of Antwerp, Belgium; ²Laboratory of Medical Biochemistry, University of Antwerp, Belgium; ³Astbury Centre for Structural Molecular Biology, University of Leeds, United Kingdom; ⁴School of Molecular and Cellular Biology, University of Leeds, United Kingdom
- ThP 641 Cytochrome c / Cardiolipin Interactions in Apoptosis:
 The Roles of Protein Auto-Oxidation and in situ
 Covalent Modifications; Victor Yin¹; Lars Konermann²;
 ¹University of Western Ontario, London, ON; ²University of Western Ontario, London, ON
- ThP 642 Coupling FPOP with IM-MS for Detailed Structural Characterization of the Native Ensemble of cytochrome c; Emily E Chea¹; Daniel Deredge¹; Lisa M Jones¹;

 1 University of Maryland, Baltimore- School of Pharmacy, Baltimore, MD
- ThP 643 Deep Profiling of Proteome Structural Changes by TMT-Mass Spectrometry; Kaiwen Yu¹; Junmin Peng¹; ¹St Jude Children's Research Hospital, Memphis, TN
- ThP 644 Investigation of Gas-Phase Unfolding Transitions of Protein Ions Using Ion Mobility-Mass Spectrometry;

 Micah T Donor¹; Samantha O Shepherd¹; James S Prell¹;

 ¹University of Oregon Department of Chemistry and Biochemistry, Eugene, OR
- ThP 645 Metal-Induced Oxidation of Transthyretin Studied via Ion Mobility-Orbitrap Mass Spectrometry and Surface-Induced Dissociation; Mehdi Shirzadeh¹; Michael L Poltash¹; Jacob W McCabe¹; Klaudia I Kocurek¹; zahra Moghadamchargari¹; Arthur Laganowsky¹; David H. Russell¹; ¹Texas A&M University, College Station, TX



- ThP 646 Structural Analysis of Gas-Phase Phosphoproteins; <u>Carter Lantz</u>¹; Rachel R. Ogorzalek Loo¹; Joseph A. Loo¹; ¹University of California Los Angeles, Los Angeles, CA
- ThP 647 Protein Structural Accessibility Differences in Cerebrospinal Fluid by Limited Proteolysis-Mass Spectrometry; Danielle A Faivre¹; Eric L Huang¹; Michael J MacCoss¹; ¹University of Washington, Seattle, WA
- ThP 648 Assessing the Comparability of Ion Mobility Mass Spectrometry to Measure Collision Cross Section Distributions for Protein Standards; Aidan P France¹; Lukasz Migas²; Bruno Bellina²; Eleanor Sinclair²; Perdita E. Barran²; ¹University of Manchester, Manchester, United Kingdom; ²Manchester Institute of Biotechnology, University of Manchester, United Kingdom
- ThP 649 Distinguishing Subtle Conformational Differences in Protein Complexes using Ion Mobility Mass Spectrometry and Collision Induced Unfolding; Stacey Nash¹; Tyler Marcinko¹; Richard W. Vachet¹; ¹University of Massachusetts at Amherst, Amherst, MA
- ThP 650 MALDI Analysis for Protein Footprinting; <u>Jerry Jiang</u>¹; Michael L Gross¹; Nicole D Wagner¹; ¹Washington University in St. Louis, St. Louis
- ThP 651 Characterization and Biochemical Analysis of a Low-Molecular Weight Cysteine-Rich Protein in Black Widow Dragline Silk; Mikayla Shanafelt¹; Jared Deyarmin¹; Ryan Hekman²; Taylor Rabara¹; Camille Larracas³; Liang Xue¹; Craig Vierra¹; ¹University of the Pacific, Stockton, CA; ²Boston University, Boston, MA; ³University of the Pacific, San Francisco. CA
- ThP 652 Characterization of Co-Existing Enfuvirtide
 Conformational States by Ion Mobility Mass
 Spectrometry and Hydrogen/Deuterium Exchange;
 Bradley Stocks¹; Gregory H. Bird²; Loren D. Walensky²;
 Jeremy E. Melanson¹; ¹National Research Council Canada,
 Ottawa, ON; ²Dana-Farber Cancer Institute, Boston, MA
- ThP 653 Microcontoller Timing, OPO and FPOP for T-Jump Measurement of Protein Conformational Kinetics;

 <u>Don L Rempel</u>¹; Roger (Xiaoran) Liu²; Michael L Gross²;

 **Washington University, St Louis, MO; **Washington University, St.louis, MO

PROTEINS: GENERAL AND MEMBRANE 654-673

- ThP 654 Better Investigation of Integrin Expression in Cancer Cell Lines by Comparison of Different Membrane Protein Enrichment Methods; Mona Goli¹; Jair Montford¹; Katya Y Torres-Ulloa¹; Wenjing Peng¹; Ahmed Hussien¹.
 ²; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX; ²University of Alexandria, Alexandria, Egypt
- ThP 655 Co-Localization of CD147 with Oncogenic Proteins
 Confers Drug-Resistant Phenotype in Breast Cancer
 Stem Cells; Sohyun Kim¹; Yuri Seo¹; Hyeryeon Jung¹;
 Jieun Jung²; Yeojin Jung²; Kristine M Kim²; Eugene C Yi¹;
 ¹Department of Molecular Medicine and Biopharmaceutical
 Sciences, Graduate School of Convergence Science
 and Technology, Seoul National University, Seoul, South
 Korea; ²College of Biomedical Science, Kangwon National
 University, Seoul, South Korea
- ThP 656 Novel Strategies for Top-down Proteomics of Endogenous Membrane Protein Complexes; Kyle

 Brown¹; Bifan Chen¹; Ziqing Lin¹; Tania Guardado¹;
 Song Jin¹; Ying Ge¹; ¹University of Wisconsin-Madison,
 Madison, WI
- ThP 657 Comparative Proteomic Profiling of Five 2D and 3D Grown Cancer Cell Lines Using HRAM LC-MS.; Josip Blonder¹; Jan A Kaczmarczyk¹; Rhonda R Roberts¹; Gordon R Whiteley¹; Robin A Felder²; Richard G Saul¹; ¹Frederick Nat¹l Lab for Cancer Research, Frederick, MD; ²Department of Pathology, University of Virginia School of Medicine, Charlottesville, VA

- ThP 658 Evaluation of Six Different Sample Preparation
 Strategies for Enhanced In-Depth Proteomic Analysis
 of Milk Fat Globule Membrane; Yongxin Yang¹; Ruchika
 Bhawal²; Elizabeth T. Anderson²; Sheng Zhang²; ¹Anhui
 Academy of Agricultural Sciences, Hefei Shi, China; ²Cornell
 University, Ithaca, NY
- ThP 659 Selective Binding of a Toxin and Phosphatidylinositides to a Mammalian Potassium Channel; Yang Liu¹; Michael L Poltash²; Wen Liu¹; David H. Russell²; Arthur Laganowsky²;

 1TAMU Health Science Center, Houston, TX; 2Texas A&M University, College Station, TX
- ThP 660 Quantification of Mitochondrial Membrane Proteins in Dried Blood Spots for the Detection of Blood Doping Practices in Sport; Holly Cox¹; Abhilasha Manandhar¹; Daniel Eichner¹; ¹Sports Medicine Research and Testing Laboratory, Salt Lake City, UT
- ThP 661 Native MS and Surface Induced Dissociation Provide Insight into Eye Lens Aquaporins; Sophie R Harvey^{1, 2}; Wendy L White³; Zachary L VanAernum^{1, 2}; Erin M Panczyk^{1, 2}; Kevin L Schey³; Vicki H Wysocki^{1, 2}; ¹Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio; ²Resource for Native Mass Spectrometry Guided Structural Biology, The Ohio State University, Columbus, Ohio; ³Department of Biochemistry, Vanderbilt University, Nashville, Tennessee
- ThP 662 Detergents' Supercharging Effects on Soluble Proteins and Membrane Proteins; Wonhyeuk Jung¹; Frederik Lermyte²; Carter Lantz¹; Rachel Loo¹; Joseph A. Loo¹; ¹UCLA, Los Angeles, CA; ²University Of Antwerp, Antwerp, Belgium
- ThP 663 Intact and Subunit Mass Analysis Using Native Ion Exchange Chromatography Coupled to an Orbitrap Mass Spectrometer; Qian Liu¹; Stephane Houel¹; Hao Zhang¹; Alla Polozova¹; ¹Amgen Inc., Cambridge, MA
- ThP 664 Proteomic Analysis of Cell Surface Proteins with Improved Specificity of Enrichment; Betsy Benton¹; Sergei Snovida¹; Katherine Herting¹; Hongbin Zhu¹; John C. Rogers¹; Barbara Kaboord¹; ¹Thermo Fisher Scientific, Rockford, IL
- ThP 665 Probing Adhesion GPCR-G Protein Interaction by Chemical Cross-Linking and Mass Spectrometry; Bill Huang¹; Hee-Yong Kim¹; ¹NIAAA/NIH, Rockville, MD
- ThP 666 Applying a Quantitative, Cell Surface Glycoproteomic Approach to Understanding Phenotypic Changes Induced by Extended Culturing of Explanted Human Cardiac Fibroblasts; Linda Berg Luecke¹; Amanda Rae Buchberger^{1,2}; Matthew Waas¹; Rebekah L. Gundry^{1,2};

 1 Medical College of Wisconsin, Milwaukee, WI; 2 Center for Biomedical Mass Spectrometry Research, Medical College of Wisconsin, Milwaukee, WI
- ThP 667 Ion Mobility-Mass Spectrometry Reveals α-Synuclein Conformational Changes within Lipid Bicelles; Denise P Tran¹; Joseph A Loo¹; ¹UCLA, Los Angeles, CA
- ThP 668 Application of the CellSurfer Platform Enables
 Generation of a Chamber-Resolved Map of Surface
 N-Glycoproteins on Primary Human Cardiomyocytes;
 Rachel A. Jones Lipinski¹; Ranjuna Weerasekera¹; Linda
 Berg Luecke¹; Amanda Rae Buchberger¹; Matthew Waas¹;
 Rebekah L. Gundry¹; ¹Medical College of Wisconsin,
 Milwaukee. WI
- ThP 669 Comparison of Reverse Phase and Ion Exchange Fractionation Strategies for 2D-LC-MS/MS Based Liver Proteomics; Maxime Sansoucy¹; Felix Friedrich¹; Lekha Sleno¹; ¹UQAM, Montreal, QC
- ThP 670 Characterization of the Intact Proteins of Influenza
 Primary Liquid Standards; Lidoshka Marc¹; John R
 Barr¹; Tracie Williams¹; ¹Centers for Disease Control and
 Prevention, Atlanta, Georgia
- ThP 671 Bioinformatic Analysis of MS Data to Assess G-Protein Coupled Receptor Targets for Transactivation of



- ThP 672 Therapeutic Utility of LIFR Inhibitor EC359 in Treating HDAC Inhibitor Resistance in Ovarian Cancer;
 Suryavathi Viswanadhapalli¹; Susan T. Weintraub¹;
 Mengxing Li¹; Hareesh B. Nair²; Klaus J. Nickisch²; Sammy Pardo¹; Dana Molleur¹; Ratna K. Vadlamudi¹; ¹University of Texas Health Science Center at San Antonio, San Antonio, TX; ²Evestra, San Antonio, TX
- ThP 673 LC-MS Characterization of Polysorbate 80 Raw Materials from Multi-Use Containers; Rashmi Menon¹; Erin Laskowich¹; Linda Yi¹; ¹Biogen, Morrisville, NC

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- ThP 674 Developing Novel Enrichment Strategies to Facilitate Proteomic Analysis of NR5A2in Triple Negative Breast Cancer; Valentine V Courouble¹; Yuanjun He¹; Ruben Garcia-Ordonez¹; Patrick R. Griffin¹; ¹Scripps Research, Jupiter, FL
- ThP 675 Surface Glycoproteomic Analysis Reveals that Both Unique and Differential Expression of Surface Glycoproteins Determine the Cell Type; Suttipong Suttapitugsakul¹; Lindsey D. Ulmer¹; Chendi Jiang¹; Fangxu Sun¹; Ronghu Wu¹; ¹Georgia Institute of Technology, Atlanta, GA
- ThP 676 Proteomic Differences and Protein Acetylation by
 Sirtuins in Response to Cell Aging; Liting Deng¹; Mehdi
 Mirzaei¹; Paul Andrew Haynes¹; ¹Macquarie University,
 Svdnev. Australia
- ThP 677

 PPPome Profiling Using Quantitative Proteomics
 Reveals the Role of PP2Ac phosphorylation in
 Regulating PP2A-B55 Mediated Dephosphorylation
 of Mitotic Substrates; Isha Nasa^{1,2}; Lauren Cressey¹;
 Thomas Kruse³; Emil PT Hertz³; Jakob Nilsson³; Arminja
 N Kettenbach¹,²; ¹Department of Biochemistry and Cell
 Biology, Dartmouth College, Hanover, NH; ²Norris Cotton
 Cancer Center, Lebanon, NH; ³Novo Nordisk A/S, Måløv,
 Denmark
- ThP 678 Improving Confidence and Productivity for N-Linked Glycan Analysis in Biotherapeutics Development Using an Integrated and Compact LC-FLR-HRMS System;

 Ximo Zhang¹; Corey Reed¹; Henry Shion¹; Robert Birdsall¹; Ying Qing Yu¹; ¹Waters Corporation, Milford, MA
- ThP 679 Phosphonate-Modified Core-Shell Structured Fe3O4-SiO2 Nanoparticles: Synthesis, Characterization and Application to the Enrichment of Phosphopeptides;

 Qingshi Meng¹; Xiaohui Feng¹; Xiangfang Tang¹; Hongfu Zhang¹; ¹Institute of Animal Sciences, CAAS, Beijing, China
- ThP 680 The Acetylation of Lysine-376 of G3BP1 Regulates RNA Binding and Stress Granule Dynamics; Jing Chen¹; Jozsef Gal²; Duck-Young Na²; Laura Tichacek²; Kelly R Barnett²; Haining Zhu²·3; ¹University of Kentucky, Lexington, KY; ²University of Kentucky, Lexington, Kentucky; ³Lexington VA Medical Center, Research & Development, Lexington, Kentucky
- ThP 681 Ischemic Stress to Kidneys from SIRT5 Mice is mitigated by Succinylation Response; Kevin Peasley¹;

 Anja N Holtz²; Nathan Basisty²; Takuto Chiba¹; Birgit Schilling²; Sunder Sims-Lucas¹; Eric Goetzman¹; ¹University of Pittsburgh, Pittsburgh, PA; ²Buck Institute, Novato, CA
- ThP 682 Middle-Down Characterization of Poly-Ubiquitin by 193 nm UVPD and EThcD; <u>Aarti Bashyal</u>¹; Jennifer S Brodbelt¹;

 **IUniversity of Texas Austin, Austin, TX
- ThP 683 LC-MS Analysis of Bound Sulfane Sulfur in Hypoxic Endothelial Cells; Xinggui Shen¹; Christopher B. Pattillo B. Pattillo¹; Hyung W. Nam¹; Christopher G. Kevil¹; ¹LSU Health-shreveport, Shreveport, LA
- ThP 684 Ion-Exchange Chromatography On-Line Hyphenated to Mass Spectrometry for the Native Intact In-Depth

- Characterisation of Cationic and Anionic Proteins; Florian Fuessl¹; Angela Criscuolo²; Ken Cook³; Jonathan Bones¹; ¹Nibrt, Dublin, Ireland; ²Institute of Bioanalytical Chemistry, Faculty of Chemistry and Mineralogy, Leipzig, Germany; ³Thermo Fisher Scientific, Hemel Hempstead, UK, Hemel Hempstead, United Kingdom
- ThP 685 Proteome-Wide Detection of Cysteine Nitrosylation
 Targets and Motifs Using Bioorthogonal CleavableLinker-Based Enrichment and Switch Technique (CysBOOST); Ruzanna Mnatsakanyan¹; Stavroula Markoutsa¹;
 Steven H.L. Verhelst¹.²; René Zahedi³; ¹Leibniz-Institut
 für Analytische Wissenschaften ISAS e.V., Dortmund,
 Germany; ²Laboratory of Chemical Biology, Department of
 Cellular and Molecular Medicine, KU Leuven University
 of Leuven, Leuven, Belgium; ³Segal Cancer Proteomics
 Centre, Lady Davis Institute for Medical Research, Jewish
 General Hospital, McGill University, Montreal, QC
- ThP 686 Quantitative Middle Down Proteomics of Histone H3
 Variant-Specific Proteoforms; Tao Wang¹; Matthew V.
 Holt¹; Nicolas L. Young¹; ¹Baylor College of Medicine,
 Houston. TX
- ThP 687 Analysis of the Human Brain Ubiquitylation Pattern
 Associated with Alzheimer's Disease Using Quantitative
 Proteomics; Measho Abreha¹; Eric B. Dammer¹.²; Lingyan
 Ping¹.²; Tian Zhang¹; Duc M Duong¹.³; Marla Gearing¹;
 James J. Lah¹; Allan I. Levey¹; Nicholas T. Seyfried¹.²;
 ¹Emory University Center of Neurodegenerative Diseases,
 Atlanta, GA; ²Emory University-Biochemistry, Atlanta, GA;
 ³Emory Integrated Proteomics Core, Emory University,
 Atlanta, GA
- ThP 688 System-Wide Temporal Characterization of the Phosphoproteome of esophageal squamous Cell Carcinoma Cells; Jun Adachi; National Institutes of Biomedical Innovation, Health and Nutrition, Ibaraki, Japan
- ThP 689 Scop3P: The Bridge between Human Phosphosites,
 Protein Structure and Proteomics Data; Pathmanaban
 Ramasamy^{1, 2, 3, 4}; Demet Turan^{1, 2}; Elien Vandermarliere^{1, 2}; Lennart Martens^{1, 2}; Wim Vranken^{3, 4}; ¹VIB-UGent
 Center for Medical Biotechnology, Ghent, Belgium, Gent,
 Belgium; ²Department of Biochemistry, Faculty of Health
 Sciences, Ghent University, Ghent, Belgium, Gent, Belgium;
 ³Interuniversity Institute of Bioinformatics in Brussels, ULBVUB, Brussels, Belgium; ⁴Structural Biology Brussels, Vrije
 Universiteit Brussel, Brussels, Belgium
- ThP 690 Sequence Liability and Developability Assessment of mAb-A; Samuel Korman¹; Mingyan Cao²; Dengfeng Liu²; Sri Hari Raju Mulagapati²; ¹Medimmune, Gaithersburg, MD; ²MedImmune, Gaithersburg, MD
- ThP 691 Cross-talk between Crucial Protein Post-Translational Modifications (PTMs): O-GlcNAcylation, Phosphorylation, and lys-acetylation; Junfeng Ma; Georgetown Univ., Washington, DC
- ThP 692 Ubiquitinome Dynamics Upon Proteasome Modulation;

 <u>Jeroen Demmers</u>; Erasmus University Medical Center,

 Rotterdam, Netherlands
- ThP 693 Exploring the Open Proteome: Proteomics Open Search Analysis with PTM-Shepherd; Daniel J Geiszler¹; Andy T. Kong¹; Dmitry M Avtonomov¹; Felipe Da Veiga Leprevost¹; Hui-Yin Chang¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- ThP 694 Investigation of KRAS 4B C-terminal peptides; <u>James Wilkins</u>; UCSF, San Francisco, CA
- ThP 695 Impact of Oxidants on Anastellin a Mediator of Fibronectin Assembly; Per Hägglund¹; Jianfei He²; Huan Cai²; Eva Ramos Becares²; Pontus Gourdon²; Michael J Davies²; ¹University of Copenhagen, Copenhagen N, Denmark; ²University of Copenhagen, Copenhagen, Denmark
- ThP 696 Identification and Functional Characterizations of Novel Proteins Promoting α-N-demethylation; David Bade¹;

ATLANTA

- Lin Li¹; Xiaoxia Dai¹; Yinsheng Wang¹; ¹UC Riverside, Riverside, CA
- ThP 697 Streamlined Workflows for N-Glycan Analysis of Biotherapeutics Using InstantPC and 2-AB with LC-FLD-MS; John Yan¹; Andres Guerrero¹; Ace G Galermo¹; Ted Haxo¹; Sergey Vlasenko¹; Justin Hyche¹; Tom Rice¹; Aled Jones¹; ¹ProZyme, A part of Agilent, Hayward, CA

PROTEOMICS: NEW APPROACHES II 698-724

- ThP 698 Treasure Hunt for Peptides with Undefined Chemical Modifications: Revealing Differential Albumin Adducts of 2-Nitroimidazole-Indocyanine Green in Hypoxic Tumors; Lei Wang¹; Christopher Dietz¹; Feifei Zhou²; Mohsen Erfanzadeh²; Quing Zhu².³; Michael Smith¹; Xudong Yao¹; ¹Department of Chemistry, University of Connecticut, Storrs, CT; ²Department of Electrical and Computer Engineering, University of Connecticut, Storrs, CT; ³Department of Biomedical Engineering, Washington University, St. Louis, MO
- ThP 699 A Proline/Alanine-Specific Protease for Bottom-up Mass Spectrometry Workflows; Chris Hosfield¹; Michael Rosenblatt¹; Marjeta Urh¹; ¹Promega, Madison, WI
- ThP 700 Cysteine-Selective Middle-Down Proteomics with Ultraviolet Photodissociation Analysis; Sean D Dunham¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- ThP 701 Carrier-Assisted Single-Tube Processing Approach for Targeted Proteomics Analysis of Low Numbers of Mammalian Cells; Pengfei Zhang¹; Matthew J. Gaffrey¹; Ying Zhu¹; William B. Chrisler¹; Thomas L Fillmore¹; Carrie D. Nicora¹; Wei-Jun Qian¹; Richard D. Smith¹; Tao Liu¹; Tujin Shi¹; ¹PNNL, Richland, WA
- ThP 702 Enhancing Middle-Down Proteomics by Limited Carbamylation of Intact Proteins and Lys-C Digestion;

 Michael B Lanzillotti¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin. Austin. TX
- ThP 703 An MS Approach based on Randomized Phosphopeptide Libraries to Study the Sequence Preference of Protein Phosphatases 1 and 2A; Bernhard Hoermann¹.²; Dominic Helm³; Thomas Kokot¹; Jeremy Chojnacki¹; Mikhail Savitski².³; Maja Koehn¹.²; ¹BIOSS Centre for Biological Signaling, Freiburg University, Freiburg, Germany; ²Genome Biology Unit, EMBL, Heidelberg, Germany; ³Proteomics Core Facility, EMBL, Heidelberg, Germany
- ThP 704 A Novel Automated LC-MS Data Processing Platform for Immuno Reactivity Assessment of Antibodies

 Developed against Host Cell Proteins; Yu Zhou¹; Meghna Patel¹; Riccardo Staccini¹; Geuncheol Gil¹; Sushmita Mimi Roy¹; ¹BioMarin, Novato, CA
- ThP 705 Systematic Identification of Direct Substrates of Src Homology 2 Containing Protein Tyrosine Phosphatase 2; Peipei Zhu¹; Ruoyu Zhang²; Chuan-Chih Hsu³; Zhong-Yin Zhang²; Weiguo Andy Tao²; ¹Purdue University, West Lafayette, IN; ²Purdue University, West Lafayette, IN; ³Stanford University, Stanford, CA
- ThP 706 Assessing Protein Sequence Database Suitability
 Using de novo Sequencing; Richard S. Johnson¹; Brook
 L. Nunn¹; Brian C Searle².³; Molly Phillips¹.⁴; Chris T.
 Amemiya⁴; Michelle Heck⁵; Micheal J MacCoss¹; ¹University
 of Washington, Seattle, WA; ²Institute for Systems Biology,
 Seattle, WA; ³Proteome Software, Portland, OR; ⁴University
 of California, Merced, Merced, CA; ⁵USDA ARS, Ithaca, NY
- ThP 707 QCforLife (QC4L) Harmonization Study: A Core Facility Alliance to Improve Proteomics Quality Control and Instruments Performance; Cristina Chiva¹,²; Roger Olivella¹,²; Amanda Solé¹,²; Daniel Mancera¹,²; Dominic Helm³; Mikhail Savitski³; Teresa Mendes Maia⁴,⁵; Evy Timmerman⁴,⁵; Francis Impens⁴,⁵; Damarys Loew⁶; Christian Panse³; Tobias Kockmann³; Laura Kunz³; Paolo

- Nanni⁷; Henrik Thomas⁸; Andrea Schuhmann⁸; Anna Shevchenko⁸; Thibault Douche⁹; Mariette Matondo⁹; Karl Mechtler¹⁰; Eduard Sabido^{1, 2}; ¹Centre de Regulació Genòmica, Barcelona, Spain; ²Universitat Pompeu Fabra, Barcelona, Spain; ³EMBL, Heidelberg, Heidelberg, Germany; ⁴VIB, Gent, Belgium; ⁵Ghent University, Gent, Belgium; ⁵Institute Curie, Paris, France; ⁷Functional Genomic Center Zürich, Zurich, Switzerland; ⁸Max Plank Institute for Molecular Cell Biology and Genetics, Dresden, Germany; ⁹Institut Pasteur, Paris, France; ¹⁰Institute of Molecular Pathology, Vienna, Austria
- ThP 708 Application of Human and Mouse Immunodepletion Reagents to Mouse Plasma with Proteomic Depth/
 Coverage Comparison Utilizing a Data-Independent Acquisition Workflow; Daryl Bulloch¹; Matthew Rardin¹;
 Bradford W Gibson¹; ¹Amgen, South San Francisco, CA
- ThP 709 Application of Logic Programming to Large-Scale
 Phosphoproteomics Data Reveals New Biological
 Insight; George A Elder¹; Conrad Bessant¹; Pedro Cutillas¹;
 ¹Queen Mary University of London, London, United
 Kingdom
- ThP 710 High-Resolution Proteolipidome Analysis of Hippocampal Tissue inan Alzheimer's Disease Mouse Model; Whitaker Cohn¹; Lucy Wanrong Gao¹; Annie Tagvoryan¹; Jesus Campagna¹; Kym Faull¹; Varghese John¹; Julian Whitelegge¹; ¹University of California Los Angeles, Los Angeles, CA
- ThP 711 Filter Aided, Single Tip Based (FAST) Method for High Throughput, Ultrasensitive Proteomics Analysis;

 Zhenbin Zhang¹; Norman Dovichi¹; ¹University of Notre Dame, Notre Dame, IN
- ThP 712 Five-Minute Proteome: An MS/MS-Free Approach to Protein Identification and Quantification; Mark V Ivanov¹; Julia A Bubis¹.²; Vladimir Gorshkov³; Irina A Tarasova¹; Elizaveta M Solovyeva¹.²; Lev I Levitsky¹; Anna A Lobas¹; Marina L Pridatchenko¹; Frank Kjeldsen³; Mikhail V Gorshkov¹.²; *Institute for Energy Problems of Chemical Physics RAS, Moscow, Russia; *Moscow Institute of Physics and Technology (State University), Dolgoprudny, Russia; *3University of Southern Denmark, Odense,
- ThP 713 Next Generation StageTip for Capturing Extremely Hydrophilic Peptides; Kosuke Ogata¹; Chia-Feng Tsai²; Naoyuki Sugiyama¹; Yasushi Ishihama¹; ¹Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan; ²Pacific Northwest National Laboratory, Richland, WA
- ThP 714 Chemical Modification of Proteins to Mimic LysC
 Proteolysis: Application of1,2-dicarbonyl Compounds
 for Arginine Modification; Boomathi Pandeswari
 Pandi¹; Varatharajan Sabareesh¹; A.s. Kamalanathan¹;
 Sripadi Prabhakar²; ¹Advanced Centre for Bio Separation
 Technology (CBST), Vellore Institute of Technology
 (VIT), Vellore, India; ²Centre for Mass Spectrometry,
 Analytical Department, CSIR Indian Institute of Chemical
 Technology (IICT), Hyderabad, India
- ThP 715 Deep Proteome Profiling of Human Hair Shafts;

 Evelyne Maes¹; Jolon M Dyer¹.².³.⁴; Stefan Clerens¹.

 2.³; ¹AgResearch Ltd., Christchurch, New Zealand;

 Biomolecular Interaction Centre, Christchurch, New Zealand; ³Riddet Institute, Massey University, Christchurch, New Zealand; ⁴Wine, Food and Molecular Biosciences, Lincoln, New Zealand
- ThP 716 Proteome Profiling of 1–10 Circulating Tumor Cells Isolated from Whole Blood; Yiran Liang¹; Jennifer Podolak²; Yongzheng Cong¹; George V. Thomas²; Ying Zhu³; Ryan T. Kelly¹.³; ¹Brigham Young University, Provo, UT; ²Oregon Health and Science University, Portland, OR; ³Pacific Northwest National Laboratory, Richland, WA



ThP 718 Fast-track MyHC Profiling Reveals Fiber Type-Specific Protein Changes in Myostatin-Deficient Skeletal Muscle Tissue; Sebastian Kallabis¹; Hendrik Nolte²; Lena Abraham¹; Clara Tuerk³; Janica Wiederstein³; Thomas Braun⁴; Marcus Krueger³; ¹CECAD Research Center / University of Cologne, Colgone, Germany; ²Max Planck Institute for Biology of Ageing, Cologne, Germany; ³CECAD Research Center /University of Cologne, Colgone, Germany; ⁴Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

ThP 719 Comparison of Peptide Separation Methods to Maximize the Mutational Landscape in a Cell Line Model System Used for Neoantigen Discovery; Sachin Kote¹; Jakub Faktor²; Goran Mitulovic³; Georges Bedran¹; Javier Alfaro¹; Satya Saxena¹.⁴; David Goodlett¹.⁵; Borek Vojtesek²; Theodore Hupp¹.².⁵; ¹International Centre for Cancer Vaccine Science, University of Gdansk, Gdansk, Poland; ²RECAMO, Brno, Czech Republic; ³Medical University of Vienna, Vienna, Austria; ⁴Deurion LLC, Seattle, WA; ⁵University of Maryland, Baltimore, MD; ⁶CRUK, University of Edinburgh, Edinburgh, United Kingdom

ThP 720 Wheat Pan-Proteomics: Unifying Data-Independent LC-MS Proteome Measurements across Diverse Genetic Backgrounds for Trait Screening and Classification;

James A Broadbent¹; Sally Stockwell¹; Keren Byrne¹; Utpal Bose¹; Shannon Dillon²; Kerrie Ramm²; Ben Trevaskis²; Michelle Colgrave¹; ¹CSIRO, St Lucia, Australia; ²CSIRO, Canberra, Australia

ThP 721 Improved Data Acquisition Settings on a Q Exactive HF-XTM Mass Spectrometer for Proteomic Analysis of Limited Samples; Antonius Koller¹; Michal Gregus¹; Alexander Ivanov¹; **INortheastern University, Boston, MA**

ThP 722 High-Throughput Single-Cell Proteomics Enabled by a Simplified Method for Automated Sample Preparation; Harrison Specht¹; Guillaume Harmange¹; David H. Perlman¹²; Edward Emmott¹; Zachary Niziolek³; Bogdan Budnik³; Nikolai Slavov¹; ¹Northeastern University, Boston, MA; ²Merck Exploratory Sciences Center, Cambridge, MA; ³Harvard University, Cambridge, MA

ThP 723 Optimizing Peptide Fractionation to Maximize Content in Cancer Proteomics; <u>Victoria Izumi</u>¹; Bin Fang¹; Paula Oliveira¹; Mark Meads¹; Kenneth Shain¹; John Koomen¹;

1 Moffitt Cancer Center & Research Institute, Tampa, FL

ThP 724 Detection of Aberrant Proteoforms from Alternative Splicing Events in Tandem Mass Tagged Proteomic Datasets; Daniel Roeth¹; Meiling Jin¹; Yiming Wu¹; Lili Wang¹; Markus Kalkum¹; ¹City of Hope, Duarte, CA

PROTEOMICS: QUANTITATIVE IV 725-749

ThP 725 Quantitation of Specific Membrane Proteins Allows
Distinguishing between Microparticles and Exosomes;
Linwen Zhang^{1, 2}; Illarion V. Turko^{1, 2}; ¹Institute for Bioscience and Biotechnology Research, Rockville, MD; ²National Institute of Standards and Technology, Gaithersburg, MD

ThP 726 Efficient Reduction of Oxidized Methionine Residues for Quantitative Proteomics; Siyu Wang¹; Clementina Mesaros¹; Ian A. Blair¹; ¹University of Pennsylvania, Philadephia, PA

ThP 727 Quantitative Proteomics of Lethal Thrombosis Model Mice and Vascular Endothelial Cells by SWATH Analysis; Hinano Tasaki¹; Mina Kawamura¹; Seiya Kawahara¹; Fumihiko Nagano¹; Ayaka Goto¹; Kei-ichiro Iwaki¹; Mai Sakai¹; Fumitaka Tani¹; Mie Shimizu¹; Tomohiro

- Mizuno¹; Ken-ichi Harada¹; Susumu Y. Imanishi¹; ¹Meijo University, Nagoya, Japan
- ThP 728 Evaluation of Thermal Proteome Profiling with an Extended Temperature Range and Different Mass Spectrometry Data Acquisition Methods; Yingrong (Mary) Xu¹; Graham M. West¹; Robert A. Everley¹; ¹Pfizer Inc., Groton, CT

ThP 729 Advances in Single Cell Proteomics through Profiling of Cardiac Micro Tissue; Claudia Ctortecka¹; Johannes Stadlmann²; Pablo Hofbauer²; Katherina Tavernini²; Sasha Mendjan²; Karl Mechtler^{1, 2, 3}; ¹Research Institute of Molecular Pathology, Vienna, Austria; ²Institute of Molecular Biotechnology, Vienna, Austria; ³Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria

ThP 730 Proteomics of Red-sided Garter Snake (Thamnophis Sirtalis Parietalis.)– Identification and Quantification of Putative Pheromone Binding Proteins in Harderian Gland; Liping Yang¹; Ehren Bentz²; Robert T. Mason²; Claudia S. Maier¹.³; ¹Department of Chemistry, Oregon State University, Corvallis, Oregon; ²Department of Integrative Biology, Oregon State University, Corvallis, OR; ³Linus Pauling Institute, Oregon State University, Corvallis, OR

ThP 731 Identification of Dynamic Heme-Binding Proteins by Quantitative Mass Spectrometry; Hyojung Kim¹; David A. Hanna¹; Amit R. Reddi¹; Matthew P. Torres¹; ¹Georgia Institute of Technology, Atlanta, GA

ThP 732 The Mechanistic Understanding of Apc Mutation and p16 Epimutation in Intestinal tumorigenesis; Jong Min Choi¹; Jin Feng¹; Antrix Jain¹; Hamssika Chandrasekaran¹; Yue Chen¹; Matthew V. Holt¹; Li Yang¹; Anusha Mandala¹; Lanjing Zhang²; Sayantani Goswami¹; Nan Gao²; Yi Wang¹; Anna Malovannaya¹; Lanlan Shen¹; Sung Yun Jung¹; ¹Baylor College of Medicine, Houston, TX; ²Rutgers University, Newark, NJ

ThP 733 Cellular Responses of Breast Cancer Cell Line to Anti-Cancer Medicinal Compounds from Ginger Root; Parvin Mirzaei¹; Luke Brown²; Jaicee Tudman²; Adam Reinhart²; Masoud Zabet Moghaddam¹; ¹Texas Tech University, Lubbock, TX; ²Wayland Baptist University, Plainview, TX

ThP 734 Development of Targeted Mass Spectrometry-Based Approaches for Quantitation of Proteins Enriched in the Post Synaptic Density (PSD); Rashaun Wilson¹; Navin Rauniyar²; Tukiet T. Lam¹; Kenneth R. Williams¹; Angus C. Nairn¹; ¹Yale University, New Haven, CT; ²Tanvex BioPharma Inc., San Diego, CA

ThP 735 KIT QUANTA - Standardization Kit for Absolute Protein Quantitation: Monitoring of Methionine Oxidation Induced by Chromatography Separation; France

Baumans¹; Dominique Baiwir¹.²; Maria Colombo³; Camille Allain⁴; Vincent Tavernier⁴; Baptiste Leroy⁴; Ruddy Wattiez⁴; Edwin De Pauw¹; Gauthier Eppe¹; Gabriel Mazzucchelli¹.²; ¹University of Liege, Mass Spectrometry Laboratory, MolSys Research Unit, Liege, Belgium; ²University of Liège, GIGA Proteomics Facility, Liege, Belgium; ³Kaneka Eurogentec S.A., Seraing, Belgium; ⁴University of Mons, Proteomics and Microbiology Laboratory, Mons, Belgium

ThP 736 Optimizing Mass Spectrometry Proteomic Analysis of Isolated Brain Myeloid Cells; Sruti Rayaprolu^{1, 2}; Tianwen Gao^{2, 3}; Hailian Xiao^{1, 2}; Supriya Ramesha^{1, 2}; Duc M Duong^{1, 4}; Eric B. Dammer^{1, 4}; James J. Lah^{1, 2}; Allan I. Levey^{1, 2}; Nicholas Seyfried^{1, 4}; Srikant Rangaraju^{1, 2};

1 Center for Neurodegenerative Diseases, Emory School of Medicine, Atlanta, GA; Department of Neurology, Emory University, Atlanta, GA; Emory University - Center of Neurodegenerative Diseases, Atlanta, GA; Department of Biochemistry, Emory University, Atlanta, GA

ThP 737 Absolute Quantification of the Lysosomal Proteome by Multiple Reaction Monitoring and QconCAT Protein



- Standards; Peter Robert Mosen¹; Roman Sakson²; Edgar Kaade¹; Thomas Ruppert²; Volkmar Gieselmann¹; Dominic Winter¹; ¹University of Bonn Institute of Biochemistry and Molecular Biology, Bonn, Germany; ²Center for Molecular Biology of Heidelberg University (ZMBH), Heidelberg, Germany
- ThP 738 TMT labeling for the Masses: How to Get Eight
 Reactions for the Price Of One; Jana Zecha¹; Shankha
 Satpathy²; Tamara Kanashova³; Shayan Avanessian²;
 M. Harry Kane²; Karl Clauser²; Philipp Mertins³; Steven
 A. Carr²; Bernhard Kuster¹. 4; ¹Chair of Proteomics and
 Bioanalytics, Technical University of Munich, Freising,
 Germany; ²Proteomics Platform, Broad Institute of MIT
 and Harvard, Cambridge, MA; ³Max Delbrück Center
 for Molecular Medicine in the Helmholtz Society, Berlin,
 Germany; ⁴Bavarian Biomolecular Mass Spectrometry
 Center (BayBioMS), Technical University of Munich,
 Freising, Germany
- ThP 739 Use of the Cysteine Proteome to Increase Coverage in Quantitative Proteomics and Assess Reversible Cysteine Modifications in T-Cell Signaling; Martin R.

 Larsen¹; Taewook Kang¹; Arkadiusz Nawrocki¹; Komal K.

 Mandal¹; Muhammad Tahir¹; ¹Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark
- ThP 740 IonStar.Mine: Extending Quantitative Depth of IonStar by High-Resolution MS1-Based Feature Matching;
 Shichen Shen¹; Shuo Qian¹; Min Ma²; Ming Zhang¹; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Comprehensive Cancer Center, Buffalo, NY
- ThP 741 Comprehensive Comparison of Filter-aided Sample Preparation and Chloroform-methanol Extraction for Bottom-up Proteomic Studies; Renny Shang-Lun Lan¹; Aaron Storey¹; Lisa Orr¹; Samuel G. Mackintosh¹; Ricky Edmondson¹; ¹University of Arkansas for Medical Sciences, Little Rock, AR
- ThP 742 A longitudinal Study of Age-Related Changes in Sodium Channels Protein Expressions in CF-1 Mouse Brains Using Targeted Mass Spectrometry; Rainbow WP Kwan¹; Luis Sojo¹; Gina De Boer¹; Jenny Li¹; Batool Rayyan²;

 ¹Xenon Pharmaceuticals, Burnaby, BC; ²Simon Fraser University, Burnaby, BC
- ThP 743 Improved TOMAHAQ Data Normalization for Large-Scale Protein Quantification and Characterization;

 Fang Liu¹; Swati Acharya²; Eric Smith²; Kratika Singhal¹;

 Rowan Matney¹; Nonhlanhla Lunjani³; Dries Van Elst³;

 Milena Sokolowska³; Cezmi A. Akdis³; Kari Nadeau²; Ryan Leib¹; Allis Chien¹; ¹Stanford University Mass Spectrometry, Stanford, CA; ²Stanford University School of Medicine, Stanford, CA, 94305; ³Swiss Institute for Allergy and Asthma Research, University of Zürich, Davos, Switzerland
- ThP 744 Physiological and Proteomic Responses of Pacific Abalone (Haliotis discus hannai) under Fluctuating Temperature Stress; Woo-Young Song¹; Hee Yoon Kang¹; Chang-Keun Kang¹; Tae-Young Kim¹; ¹Gwangju Institute of Science and Technology, Gwangju, South Korea
- ThP 745 Quantitative Proteomic and Phosphoproteomic Profiling of Myocardial Remodeling in a Porcine Model of Left-Ventricular Stiffening Following Chronic Repetitive Pressure Overload; Sailee Rasam^{1, 2}; Brian R. Weil^{3, 4}; Min Ma⁶; John M. Canty. Jr. ^{1, 3, 4, 6}; Jun Qu^{1, 2, 5, 7};

 **Department of Biochemistry, SUNY Buffalo, Buffalo, NY;

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 **Clinical and Translational Research Center, Elm and Carlton Streets, Buffalo, NY;

 **Roswell Park Comprehensive Cancer Center, Buffalo, NY;

 **Department of Medicine, SUNY Buffalo, Buffalo, NY;

 **Toepartment of Pharmaceutical Sciences, SUNY Buffalo, Buffalo, NY

- ThP 746 Proteomic Analysis of NAD-Mediated Celllular
 Processes in Aging; Weixuan Wang¹,²; Yuling Chen¹;
 Haiteng Deng¹; ¹Tsinghua University, Beijing, China;

 ²Guangdong Metabolic Diseases Research Center of
 Integrated Chinese and Western Medicine, Guang Zhou,
 China
- ThP 747 A Full and Universal Solution for HCPs Characterization through the Downstream Process by LC-MS; Mathieu Trauchessec¹; Chloé Bardet¹; Laura Herment¹; Xavier Homo¹; Quentin Enjalbert¹; Christelle Jacquet¹; Tanguy Fortin¹; ¹ANAQUANT, Villeurbanne, France
- ThP 748 Robust and Automated High Throughput Sample
 Preparation for Multiplexed Analysis for Systems
 Biology and Clinical Sample Analysis; Woong Kim¹; Greg
 Foster¹; Aaron Robitaille¹; Ryan D. Bomgarden²; Suzanne
 M Smith²; Daniel Lopez-Ferrer¹; ¹Thermo Fisher Scientific,
 San Jose, CA; ²Thermo Fisher Scientific, Rockford, IL
- ThP 749 Quantitative Profiling of Proteins Bound to the Histone Peptide H3K9me3; Abdallah Mohamed¹; Emily G. Werth¹; Chuanning Tang¹; Lewis M. Brown¹; Stavros Lomvardas¹; ¹Columbia University, New York, NY

SMALL MOLECULES: QUANTITATIVE ANALYSIS II 750-777

- ThP 750 Development of a High-Throughput UPLC-MS/
 MS Method for the Simultaneous Determination of
 Fexofenadine and Olmesartan in Human Serum;
 Raymond Edward West¹; Thomas D. Nolin¹; ¹University of
 Pittsburgh, Pittsburgh, PA
- ThP 751 Standard Substance Free Quantification of LC/ESI/MS on the Example of Pesticides in Cereal; <u>Jaanus Liigand</u>¹; Tingting Wang²; Piia Liigand¹; Mari Ojakivi¹; Anneli Kruve¹; ¹University of Tartu, Institute of Chemistry, Tartu, Estonia; ²National Food Institute, Technical University of Denmark, Lyngby, Denmark
- ThP 752 Overcoming Challenges to Develop a Simple, Rugged LC-MS/MS Method for the Determination of Monomethyl Fumarate in Human Plasma; Nick Peng¹; Ardeshir Khadang¹; *Axis Clinicals, Dilworth, MN
- ThP 753 Simultaneous Determination of Ambrisentan, Bosentan, and Sildenafil in Human Plasma Using LC-MS/MS; Wuyi (Charlie) Zha¹; Xianglin Yuan¹; Minjoo Jung¹; Mike (Qingtao) Huang²; Sudhakar Pai²; Luca Matassa¹; Zhongping (John) Lin¹; ¹Frontage Laboratories Inc., Exton, PA; ²Akros Pharma Inc., Princeton, NJ
- ThP 754 Analysis of Curcumin Sulfate in Human Treated Whole Blood by Liquid Chromatography-Tandem Mass Spectrometry; X. Steven Yan¹; Marsha L. Luna¹; Jackson Kimberly¹; Julie Showalter¹; Yansheng Liu¹; Lawrence Goodwin¹; Gene H. Zaid²; Cameron E. West²; ¹KCAS Bioanalytical and Biomarker Services, Shawnee, KS; ¹Genzada Pharmaceuticals, LLC, Sterling, KS
- ThP 755 Low-Level Quantification of Ticagrelor and TAM by LC-MS in Human Plasma, Urine, and Dialysate; China Y. Lim¹; Sherry Liu¹; Fuchao Xu¹; Brandon Wilcock¹; Bonnie Richardson¹; Sue Arnold²; Scott Reuschel¹; Troy Voelker¹; ¹Covance, Salt Lake City, UT; ²PhaseBio Pharmaceuticals, Inc., Malvern, PA
- ThP 756 Quantification of Reactive Dyes in Soil via QuEChERS Extraction and LC-ESI-MS; Chengcheng Feng¹; Xinyi Sui¹; Yufei Chen²; Mary Ankeny³; Nelson Vinueza¹; ¹North Carolina State University, Raleigh, NC; ²Jordi Labs, Mansfield, MA 02048; ³Cotton Incorporated., Cary, North Carolina
- ThP 757 A Fast and Sensitive LC/MS/MS Method for Quantitation of Fosfomycin in Human Plasma with HILIC Chromatography; Zhe Sun¹; Jin Xing Lee²; Cheryl Liam Woon Ong²; Jie Xing³; Zhaoqi Zhan³; ¹Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore; ²Department of

- Chemistry, National University of Singapore, Singapore, Singapore; ³Shimadzu (Asia Pacific) Pte Ltd., Singapore, Singapore
- ThP 758 Development of an LC-MS/MS Method for Multiple Statin and Fibrate Detection in Plasma Samples; <u>Jennifer Kusovschi</u>¹; Michael Gardner¹; Zsuzsanna Kuklenyik¹; John R. Barr¹; ¹CDC, Atlanta, GA
- ThP 759 The Application of Light-Absorbing Photostabilizers for the Determination of Protoporphyrin IX in Human Plasma by LC-MS/MS; Laurence Mayrand-Provencher¹; Richard Lavallée¹; Julie Beaudin¹; Milton Furtado¹; Anahita Keyhani¹; ¹Altasciences, Laval, QC
- ThP 760 Assay Development to Overcome Collection Tube
 Adsorption Issues in the Quantification of Antiretroviral
 (ARV) Drugs in Human Cerebrospinal Fluid (CSF);
 Lee Winchester¹; Timothy M. Mykris¹; Jonathan A.
 Weinhold¹; Courtney V. Fletcher¹; Anthony T. Podany¹;
 ¹Antiviral Pharmacology Laboratory, UNMC Center for
 Drug Discovery, University of Nebraska Medical Center,
 Omaha. NE
- ThP 761 Quantitative analysis of TwoPerfluorooctane sulfon-amides (FOSEs) and Four fluorotelomer alcohols(FTOHs)in Textiles using LC/MS/MS; Jun Xiang Lee¹; Sue Ann Lee²; Wan Tung Liw¹; Jie Xing³; Zhaoqi Zhan⁴; ¹Shimadzu (Asia Pacific) Pte Ltd., Singapore, Singapore; ²School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link SPMS-04-01, Singapore 627371, Singapore, Singapore; ³Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore; ⁴Shimadzu Asia Pacific, Singapore, Singapore
- ThP 762 Method Development of NDMA and NDEA Quantification in Sartan Drug by LC-MS/MS; Chun-Ye Sun¹; Cong-Fang Lai²; 'Agilent Technologies (China) Co., Ltd., Shanghai, China; 'Agilent Technologies(China) Co. Ltd., Beijing, China
- ThP 763 Quantitative LC-MS/MS Method for the Determination of Urea and Guanidine in Complex Protein Matrices; Pei Wang¹; Thomas Leitzinger²; Christopher Ciptadjaya²; Jie Ding²; ¹PPD, Inc, Middleton, WI; ²PPD, Inc., Middleton, WI
- ThP 764 Liquid Chromatography-Tandem Mass Spectroscopy (LC-MS/MS) Method Development and Validation for Quantitation of Lidocaine in Human Serum after Topical System Administration; Qing Cai¹; Armita Azarpanah¹; Nicole K Brogden²; Jamie L Carr³; Kenneth R Morris¹; *Long Island University Lachman Institute, Brooklyn, NY; *2The University of Iowa College of Pharmacy, Iowa City, IA; *3University of Iowa Hospitals and Clinics, Iowa City, IA
- ThP 765 Validated LC-MS/MS Assay for Quantitation of Acetaminophen and Pregabalin in Human K2EDTA
 Plasma; Robert Clegg¹; Rachel Sun¹; Jack Lipman²; ¹BASi,
 West Lafayette, IN; ²Nevakar, Inc., Bridgewater, NJ
- ThP 766 Quantification of Glucocorticoids by LC-MS/MS in Micro Dissected Brain Tissue from Neonatal and Adult Mice; Jordan Hamden¹; Katherine Gray¹; Chunqi Ma²; Kiran Soma¹; ¹University of British Columbia, Vancouver, BC; ²Psychology Department, University of British Columbia, Vancouver, BC
- ThP 767 Analysis of Ethanol in Human Whole Blood by a Highly Sensitive GC-MS Method; Dingfei Hu¹; Nicole Greer¹; Nicole Boone¹; Guangchun Zhou¹; Tian-Sheng Lu¹; Yong-Xi Li¹; ¹Medpace Bioanalytical Laboratories, Cincinnati, OH
- ThP 768 High Sensitivity LC-HRMS method for Retinoids;
 Quantification Laurent Laboureur^{1, 2}; Elaine Shanling Ho^{1, 2}; Ian A. Blair^{1, 2}; Clementina Mesaros^{1, 2}; ¹Penn SRP Center and Center of Excellence in Environmental Toxicology Center, Department of Systems Pharmacology and Translational Therapeutics Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA; ²Penn/CHOP Center of Excellence in Friedreich's ataxia, Philadelphia, PA

- ThP 769 A Rapid and Selective Method for 5-Azacytidine in Rat Plasma, Lung, Brain, and Liver Using LC-MS/MS;

 Larry M. Mallis¹; Tyler Sniegowski¹; Philip J Kuehl¹; Steven Belinsky¹; ¹Lovelace Biomedical, Albuquerque, NM
- ThP 770 Improved Sensitivity for Bioanalysis of
 Pyrrolobenzodiazepine Dimers Using Microflow HPLC
 Coupled with Tandem Mass Spectrometry; Rolf Kern;
 SCIEX, Redwood Shores, CA
- ThP 771 A Sensitive LCMS Assay to Measure Free Curcuminoids in Complex Biological Samples; Alexander J Yoon¹; Haiqing Wu²; Philip Hampton³; Kym F Faull¹; ¹UCLA, Los Angeles, CA; ²Shenzen University, Shenzen, China; ³California State University, Channel Islands, Camarillo, CA
- ThP 772 Analysis of Intracellular Deoxyribonucleoside
 Triphosphates by HILIC-UPLC-MS/MS; Xiaolin Li¹; Daniela
 M. Schlatzer¹; Mukesh Kumar²; Chris Dealwis²; Mark
 R. Chance²; ¹Center for Proteomics and Bioinformatics,
 CWRU, Cleveland, Ohio; ²Case Western Reserve
 University, Cleveland, OH
- ThP 773 Method Development for Quantification and Identification of Ibuprofen Impurities by LC-MS/MS-MRM; Raj Mahat¹; James Gianakon¹; Jenna Milliken¹; Andy Ommen¹; Nick Hauser¹; ¹MilliporeSigma, Laramie, WY
- ThP 774 SprayQA: A Quality Control for Ionization Suppression in Individual Study Samples; Richard King¹; Susan Crathern¹; Carmen Fernandez-Metzler¹; ¹PharmaCadence Analytical Services, LLC, Hatfield, PA
- ThP 775 Rapid and Highly Specificity Detection of Abused Drugs by LDI-TOF-MS Integrated with Mass Tag Signal Amplification; Sih-Syuan Wu¹; He-Hsuan Hsiao¹; ¹Department of Chemistry, National Chung Hsing University, Taichung City, Taiwan
- ThP 776 Mass Spectrometric Analysis to Assess the Skin Penetration of Lipid-Based Gene Delivery Vectors;

 Mays Al-Dulaymi¹; Deborah Michel²; Ildiko Badea²; Anas El-Aneed²; ¹Department of Pediatrics, College of Medicine, University of Saskatchewan, Saskatoon, SK; ²College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, Saskatchewan
- ThP 777 Whole Blood Sample Analysis Strategies for LC-MS/ MS Approach Bioanalysis; Yongle Pang¹; Theodore Brus²; Anita Wyeth¹; Stephanie Cape¹; ¹Covance Laboratories Inc., Madison, WI; ²Covance Laboratories Inc., Indianapolis, IN



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Abad, Beatriz	WP 071
Abad-García, Beatriz	MP 347
Abban, Tom	WP 368
Abbatiello, Susan E	MP 780
Abbatiello, Susan E	TD 528
Abbatiello, Susan E	
Abda, Julia	
Abdel Rahman, Anas	
Abdelhameed, Ali	IVIP 091
Abdel-Malek, Zalfa	
Abdi, Fadi	
Abdillahi, Abdirahman	
Abdillahi, Abdirahman	
Abdolvahabi, Alireza	TP 370
Abdolvahabi, Alireza	
Abdouni, Hala	ThOC pm 03:30
Abdulkarimova, Ulviya	WP 471
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Abdulsada, Mustafa	TP 700
Abe, Kaori	WP 609
Abelin, Jennifer	MP 589
Abelin, Jennifer	
Abernathy, Scott	
Abhinav, Kanishk	
Abiedalla. Younis	
Abolhasani Khaje, Niloofar	
Abolhasani Khaje, Niloofar	W/P 139
Abouleila, Yasmine	TOF nm 03:10
Abouleila, Yasmine	
Abraham, Ann	MD 200
Abraham, Lena	
Abraham, Paul	
Abreha, Measho	ThP 687
Abshiru, Nebiyu	
Abshiru, Nebiyu	
Abu-Rabie, Paul	ThP 018
AbuSalim, Deyaa	MP 468
Abutokaikah, Maha	MP 468 TP 279
Abutokaikah, MahaAcabaya, Raphael	MP 468 TP 279 TOG pm 03:30
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Abutokaikah, MahaAcabaya, RaphaelAceves, Christine	MP 468 TP 279 TOG pm 03:30 MP 440 ThP 198
Abutokaikah, MahaAcabaya, Raphael Aceves, ChristineAceves, ChristineAcharya, SwatiAchilles, Sharon	
Abutokaikah, MahaAcabaya, Raphael Aceves, ChristineAceves, ChristineAcharya, SwatiAchilles, Sharon	
Abutokaikah, MahaAcabaya, RaphaelAceves, ChristineAceves, ChristineAcharya, Swati	
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Abutokaikah, Maha	MP 468 TP 279 TOG pm 03:30 MP 440 ThP 198 ThP 743 WP 096 ThP 688 TP 078 MP 288 MOF pm 02:30 TP 717 WP 662 WP 595 MP 778 WOC am 08:30 WP 167 ThP 594 ThP 594 ThP 594 ThP 594 TP 218 TP 173 MP 589 TP 763 ThP 250 MP 788 TP 763 ThP 250 MP 498 TP 209 TP 754
Abutokaikah, Maha	MP 468 TP 279 TOG pm 03:30 MP 440 ThP 198 ThP 743 WP 096 ThP 688 TP 078 MP 288 MOF pm 02:30 TP 717 WP 662 WP 595 MP 778 WOC am 08:30 WP 167 ThP 594 ThP 594 ThP 594 ThP 594 TP 218 TP 173 MP 589 TP 763 ThP 250 MP 788 TP 763 ThP 250 MP 498 TP 209 TP 754
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Abutokaikah, Maha	MP 468 TP 279 TOG pm 03:30 MP 440 ThP 198 ThP 743 WP 096 ThP 688 TP 078 MP 288 MOF pm 02:30 MP 471 WP 662 MP 593 MP 778 WO am 08:30 WP 167 ThP 594 ThP 595 MP 778 WP 640 MP 147 TP 212 TP 318 TP 173 MP 589 TP 763 ThP 250 MP 498 TP 209 TP 754 WP 482 TP 754 WP 482 TOG am 09:30
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Abutokaikah, Maha	MP 468 TP 279 TOG pm 03:30 MP 440 ThP 198 ThP 743 WP 096 ThP 688 TP 098 MP 288 MOF pm 02:30 TP 717 WP 695 MP 778 WOC am 08:30 WP 167 ThP 594 ThP 594 ThP 594 ThP 596 MP 78 WO am 08:30 Th 759 ThP 596 ThP 596 ThP 596 ThP 596 ThP 596 ThP 596 TP 763 TP 173 MP 589 TP 763 ThP 250 MP 488 TP 209 TP 754 WP 482 TOG am 08:30 MOG pm 03:50 MP 036 MP 784
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Aebi, Markus	
Afjehi-Sadat, Leila	ThP 613
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Afonso, Carlos	
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Aga, Diana	
Agana, Bernice	
Agar, Jeffery	MD 3/12
Agai, Jellery	ThD 450
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Agosto, Laura	
Agosto, Laura	MP 170
Agrawal, Neeraj	TP 625
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Agtuca, Beverly	
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Aguilar, Adriana	
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Aguilar, Ben	
Aguilar, Isabella	MP 162
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Agyekum, Isaac	WP 185
Ahadi, Sara	MOE nm 02:30
Ahadi, Sara	
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Ahlstrom, AustinAhmad, RidwanAhmad, ShadabAhmadi, Shiva	MP 557 MP 708 MP 401 MP 738
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 TP 172 MOA pm 02:30 MP 383 ThOC am 09:10
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 334 ThP 334 ThP 334
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 335 WP 247
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 172 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 335 WP 247 TOF pm 03:30 TP 377
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 311 TP 411
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 334 ThP 334 ThP 334 TTP 337 TP 411 TP 412 TP 413 MP 328
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 334 ThP 334 ThP 334 TTP 337 TP 411 TP 412 TP 413 MP 328
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MOA pm 02:30 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412 TP 412 TP 413 MP 328 ThP 088
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412 TP 413 MP 328 ThP 088 ThP 099 TP 707
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412 TP 413 MP 328 ThP 088 ThP 089 TP 707 MP 075
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 170 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 334 ThP 334 ThP 334 ThP 341 TP 412 TP 412 TP 413 MP 328 ThP 088 ThP 088 ThP 088 ThP 088 ThP 088 ThP 088 ThP 075 MP 075 ThP 600
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Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 393 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412 TP 413 MP 383 ThOC am 09:10 TP 377 TOF pm 03:30 TP 377 TP 411 TP 412 TP 413 MP 368 ThP 099 TP 707 MP 075 ThP 608 ThP 703 MP 075 ThP 609 ThP 743 MOA am 10:10
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 371 TP 411 TP 412 TP 413 MP 328 ThO 99 TP 707 MP 075 ThP 600 ThP 703 MP 075 ThP 600 ThP 743 MOA am 10:10 WP 765
Ahlstrom, Austin	MP 557 MP 708 MP 401 MP 738 TP 543 MP 562 TP 289 TP 080 TP 771 ThP 144 MP 444 TP 016 TP 130 MP 383 ThOC am 09:10 WP 398 WP 167 ThP 334 ThP 335 WP 247 TOF pm 03:30 TP 377 TP 411 TP 412 TP 413 MP 328 ThP 088 ThP 088 ThP 099 TP 707 MP 075 TP 600 ThP 743 MOA am 10:10 WP 765 TOH am 10:10

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Antrobus, Robin	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono Akira	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono Akira	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono Akira	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aon, Akira Apffel, James A. Apostol, Christopher	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel	TP 656 WP 036 MP 114 TP 185 TP 201 WP 452 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel	TP 656 WP 036 MP 114 TP 185 TP 201 WP 452 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appelby, Robert	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A. Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 Th 069
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appelby, Robert	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 Th 069
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appelby, Robert Apte, Arun Apte, Suneel	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 TP 669 TP 684
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Apte, Suneel	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 The 069 TP 684
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Apte, Suneel	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 The 069 TP 684
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 The 069 TP 684 WP 072 ThP 322
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ano, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei.	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 322
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ano, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei.	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 322
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Antun	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 Th 684 WP 072 ThP 322 ThP 151
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 THP 684 WP 072 ThP 151 WP 254 MP 774
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arau-Garofalo, Gianluca Archer-Hartmann, Stephanie	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 ThP 684 WP 072 ThP 151 WP 254 MP 774 WP 339
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arau-Garofalo, Gianluca Archer-Hartmann, Stephanie	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 WP 676 TOD pm 03:50 MP 476 ThP 684 WP 072 ThP 151 WP 254 MP 774 WP 339
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arau-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 676 Th 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 058
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Aracher-Hartmann, Stephanie Arden, Blaise Areces, Marcos	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 018
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Aracher-Hartmann, Stephanie Arden, Blaise Areces, Marcos	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 018
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ano, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appelby, Robert Appelby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Areces, Marcos Arekar, Vedanga	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 322 ThP 324 MP 774 WP 374 WP 374 WP 378 MP 958 WP 014 ThP 147
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A. Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arau-Garofalo, Gianluca Archer-Hartmann, Stephanie Areces, Marcos Arekar, Vedanga Arevalo, Ricardo	TP 656 WP 036 MP 014 TP 184 TP 185 TP 201 WP 453 WP 453 WP 761 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 Th 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A. Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arau-Garofalo, Gianluca Archer-Hartmann, Stephanie Areces, Marcos Arekar, Vedanga Arevalo, Ricardo	TP 656 WP 036 MP 014 TP 184 TP 185 TP 201 WP 453 WP 453 WP 761 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 Th 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Arevalo, Ricardo Arevalo, Ricardo	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOD pm 03:50 MP 476 THP 684 WP 072 ThP 312 ThP 312 ThP 313 MP 254 MP 774 WP 254 MP 774 TP 417 TP 443
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Argamasilla Martinez, Rosa	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 ThP 171 TP 443
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya An, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Argamasilla Martinez, Rosa	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 ThP 171 TP 443
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Jun Aon, Jun Aon, Jun Aon, Jun Aon, Jun Aon, Jun Aon, Akira Apfel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Archer, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana	TP 656 WP 036 MP 114 TP 185 TP 201 WP 453 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 Thp 069 TP 684 WP 072 Thp 151 WP 254 MP 774 WP 339 MP 058 WP 014 Thp 147 Thp 147 Thp 147 The 1443 WP 565 TP 323
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Araur-Garofalo, Gianluca Archer-Hartmann, Stephanie Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel	TP 656 WP 036 MP 114 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 147 TP 417 TP 417 TP 413 WP 565 TP 323 ThP 584
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Araur-Garofalo, Gianluca Archer-Hartmann, Stephanie Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel	TP 656 WP 036 MP 114 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 147 TP 417 TP 417 TP 413 WP 565 TP 323 ThP 584
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Arao, Yohei Arao, Yohei Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arrias, Daniel Arias, Diego	TP 656 WP 036 MP 0136 MP 114 TP 184 TP 185 TP 201 WP 453 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 Th 969 Th 684 WP 072 Th 932 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 ThP 147 ThP 147 ThP 171 TP 443 WP 565 TP 323 ThP 584 MP 225
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argosto, Marielos Arias, Daniel Arias, Daniel Arais, Daniel Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Arias, Marielos	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOP pm 03:50 MP 476 TOP pm 03:50 MP 476 TOP pm 03:50 TOP 684 WP 072 The 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 ThP 147 ThP 147 TP 443 WP 565 TP 323 ThP 582 TP 443 WP 225
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argosto, Marielos Arias, Daniel Arias, Daniel Arais, Daniel Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Arias, Marielos	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOP pm 03:50 MP 476 TOP pm 03:50 MP 476 TOP pm 03:50 TOP 684 WP 072 The 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 ThP 147 ThP 147 TP 443 WP 565 TP 323 ThP 582 TP 443 WP 225
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Argamasilla Martinez, Rosa Argosti, Dayana Arias, Daniel Arias, Daniel Arana, Daniel Arevalo, Ricardo Arevalo, Ricardo Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Arias, Marielos Aristizabal-Henao, Juan	TP 656 WP 036 MP 014 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOP 90 TP 684 WP 072 ThP 312 ThP 312 ThP 313 MOE 554 MP 774 WP 254 MP 774 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 171 TP 443 WP 565 TP 323 ThP 542 ThP 171 TP 443 MP 225 MP 225 MP 225
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arau, Gianluca Archer-Hartmann, Stephanie Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Arayana Arias, Daniel Arias, Marielos Aristizabal-Henao, Juan Aristizabal-Henao, Juan Aristizabal-Henao, Juan	TP 656 WP 036 MP 114 TP 185 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 TP 147 TP 147 TP 147 TP 143 WP 565 TP 323 ThP 584 MP 225 MP 258
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apfel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Araki, Chie Arao, Yohei Arauz-Garofalo, Gianluca Archer-Hartmann, Stephanie Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Arganiel Arias, Daniel Arias, Marielos Aristizabal-Henao, Juan Aristizabal-Henao, Juan Aristizabal-Henao, Juan	TP 656 WP 036 MP 114 TP 185 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 151 WP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 TP 147 TP 147 TP 147 TP 143 WP 565 TP 323 ThP 584 MP 225 MP 254
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Araur-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Aristizabal-Henao, Juan	TP 656 WP 036 MP 114 TP 184 TP 185 TP 201 WP 453 WP 462 WP 751 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 ThP 069 TP 684 WP 072 ThP 322 ThP 151 WP 254 MP 774 WP 339 MP 147 TP 413 WP 685 TP 413 WP 565 TP 323 ThP 584 MP 225 MP 495 MP 254
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Ao, Hei Sio Aoki, Jun Aon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Arun Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Arao, Yohei Arao, Yohei Arao, Yohei Arao, Warao Arekar, Vedanga Arevalo, Ricardo Arevalo, Ricardo Areyalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Arias, Diego Arias, Marielos Aristizabal-Henao, Juan Arita, Masanori	TP 656 WP 036 MP 014 TP 184 TP 185 TP 201 WP 453 WP 453 WP 456 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOD pm 03:50 MP 476 Th 969 TP 684 WP 072 Th 932 Th 915 MP 254 MP 774 WP 339 MP 058 WP 014 Th 9171 TP 443 WP 565 TP 323 Th 9 584 MP 225 MP 246 MP 584 Th 934 MP 584 MP 584 MP 225 MP 246 MP 584 MP 246
Antrobus, Robin Antwi, Kwasi Anumol, Tarun Anumol, Tarun Anumol, Tarun Anumol, Tarun Anupriya, Anupriya Anupriya, Anupriya Anupriya, Anupriya Anon, Juan Aono, Akira Apffel, James A Apostol, Christopher Appella, Daniel Appleby, Robert Apte, Suneel Apte, Suneel Apte, Suneel Araki, Chie Arao, Yohei Arao, Yohei Araur-Garofalo, Gianluca Archer-Hartmann, Stephanie Arden, Blaise Areces, Marcos Arekar, Vedanga Arevalo, Ricardo Argamasilla Martinez, Rosa Argoti, Dayana Arias, Daniel Aristizabal-Henao, Juan	TP 656 WP 036 MP 014 TP 184 TP 185 TP 201 WP 453 WP 453 WP 453 MP 175 MP 356 TP 617 TP 313 MOE pm 03:50 MP 476 TOD pm 03:50 MP 476 TOD pm 03:50 MP 476 Th 969 Th 969 Th 910 MP 254 MP 774 WP 339 MP 058 WP 014 ThP 147 Th 171 TP 443 WP 565 TP 323 ThP 584 MP 225 MP 255 MP 225 MP 256 MP 225 MP 440 MP 541

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Armistead, Paul	
Armitage, Emily	WP 602
Armitage, Rachel	MP 221
Armstrong, John	
Arnold, Don	
Arnold, FrankArnold, Steven	
Arnold, Steven	
Arnold, Steven	
Arntzen, Magnus	
Arntzen, Magnus	
Aron, Allegra	.WOA am 09:10
Arora, Manish	
Arrey, Tabiwang	
Arrey, TabiwangArrey, Tabiwang	
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Arrey, Tabiwang N	TP 647
Arrey, Tabiwang N	WOH pm 04:10
Arrey, Tabiwang N	
Arriaga, Edgar	. WOA am 08:30
Arroyo-Manzanares, Natalia	
Arrua, Dario	
Arshad, SyedArslanian, Andrew	
Arslanian, Andrew	
Arslanian, Andrew	
Artaev, Viatcheslav	
Arthur, Rick	
Artola, Juan Luis	
Arul, Albert Arvanitis, Dina	
Arvidson, Annie	
Arvidson, Annie	
Arvidson, Annie	
Arya, Shruti	
Aryal, Uma	
Asakawa, Daiki	
Asakawa, Daiki	
Asano, Natsuyo	
Asano, NatsuyoAsano, Natsuyo	
Asare, Shardrack	
Ashcroft, Alison	
Ashe, Maria	
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Ashline, David	WP 186
Ashton, Simon	
Ashwood, Christopher	
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Aslebagh, Roshanak	
Asmellash, Senait G Asokan, Aravind	IVIF UZU
Asrican, Rose	
Assis, Felipe	•
Assress, Hailemariam	
Assuncao, Nilson	

	Isaac	WP 042
	Isaac	
	Isaac	
	Isaac	
Attana	yake, KushaniWOB	pm 03:50
Attie /	AlanMOE	pm 02:50
	Aurore	
	Mohamed	
Attyga	Ile, Athula	ThP 312
Attyga	Ile, Athula	ThP 568
	Ile, Athula	
Allyga	Ile, Athula B	IIIP 202
	Ile, Athula B	
Atwell	Brian	MP 608
Aubin.	Andy	WP 285
	t, Frédéric	
	nard, Eric	
	Paul	
Auger.	Serge	MP 219
	Serge	
	Serge	
Augei	Serge	IF ZII
Auger	Serge	IP 256
	Serge	
Auger.	Serge	WP 239
	Serge	
	Serge	
	te, Patrick	
Augus	ti, Rodinei	ThP 012
Augus	tine, Karen	TP 073
	pack, ChelseyMOG	
	Blais, Christiane	
Austin	, Daniel	MP 4/4
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Austin	, Daniel	TP 449
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	, Daniel	
Austin	, Daniel	WP 453
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	ssian, Shayan	
	Muhammad	
	Tyra	
	s , Margaritis	
Avinas	sh, Dalmia	MD 477
	n is , Daina	VVP 1//
AVION		MP 551
	omov, Dmitry	MP 551 MP 405
Avton	omov, Dmitry	MP 551 MP 405 MP 416
Avton	omov, Dmitry	MP 551 MP 405 MP 416
Avtono Avtono	omov, Dmitry omov, Dmitry omov, Dmitry	MP 551 MP 405 MP 416 ThP 693
Avtono Avtono Avtono	omov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396
Avtono Avtono Avtono Avula,	omov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitryomov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182
Avtono Avtono Avtono Avula, Awad,	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Bharathi Amber	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763
Avtono Avtono Avtono Avula, Awad, Awad,	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30
Avtono Avtono Avtono Avula, Awad, Awad,	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Bharathi Amber	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30
Avtono Avtono Avtono Avula, Awad, Awad, Awad,	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awast	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136
Avtono Avtono Avtono Avula, Awad, Awad, Awast Awast	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136
Avtono Avtono Avtono Avula, Awad, Awad, Awast Awast Awazu Axton,	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368
Avtono Avtono Avula, Awad, Awad, Awad, Awast Awast Axton, Ayabe	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604
Avtono Avtono Avula, Awad, Awad, Awad, Awast Awast Axton, Ayabe	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604
Avtono Avtono Avula, Awad, Awad, Awast Awazu Axton, Ayabe Aylon,	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604
Avtono Avtono Avula, Awad, Awad, Awast Awazu Axton, Ayabe Aylon, Ayode	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 680
Avtone Avtone Avula, Awad, Awad, Awast Awazu Axton, Ayabe Aylon, Ayode Ayode	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 680 TP 520 TP 520
Avtone Avtone Avula, Awad, Awad, Awast Awast Axton, Ayabe Aylon, Ayode Ayode Ayon,	omov, Dmitry	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 523
Avtono Avtono Avula, Awad, Awad, Awast Awast Axton, Aylon, Ayode Ayode Ayon, Ayrton	omov, Dmitry	MP 551 MP 405 MP 416 MP 416 MP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523
Avtono Avtono Avula, Awad, Awad, Awast Awast Axton, Aylon, Ayode Ayode Ayon, Ayrton	omov, Dmitry	MP 551 MP 405 MP 416 MP 416 MP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523
Avtono Avtono Avula, Awad, Awad, Awast Awazu Axton, Ayabo, Ayode Ayode Ayode Ayon, Ayrton Ayyap	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dharathi Amber Hanan Hanan Hanan Hanan Hi, Shivangi I, Kunio Elizabeth Miho Yael Ji, Ifeoluwa Ji, Ifeoluwa Navid I, Stephen pan, Vinay	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 520 TP 523 TP 523
Avtono Avtono Avula, Awad, Awad, Awasti Awasti Axton, Ayabe Aylon, Ayode Ayode Ayon, Ayrton Ayyap Azadi,	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry bharathi Amber. Hanan MOF Helena. hi, Shivangi , Kunio. Elizabeth, Miho Yael. ji, Ifeoluwa ji, Ifeoluwa Navid , Stephen. pan, Vinay. Parstoo.	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 680 TP 520 TP 523 TP 523 TP 488 TP 250 TP 250
Avtone Avtone Avula, Awad, Awad, Awast Awast Axton, Ayabe Aylon, Ayode Ayon, Ayrton Ayrton Ayrton Ayrton Ayrton Ayrap Azadi, Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry bharathi Amber Hanan MOF Helena hi, Shivangi , Kunio Elizabeth Miho Yael ji, Ifeoluwa ji, Ifeoluwa Navid , Stephen pan, Vinay Parstoo anah, Armita	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 680 TP 680 TP 520 TP 523 TP 523 TP 488
Avtono Avtono Avula, Awad, Awad, Awast Awazu Axton, Aylon, Aylon, Aylon, Ayrton Ayrton Ayad, Azadi, Azarpa Azeve	omov, Dmitry	MP 551 MP 405 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 523 TP 523 TP 488 TP 250 TP 332
Avtono Avtono Avtono Avula, Awad, Awad, Awasti Awazu Axton, Ayode Ayode Ayode Ayon, Ayrton Ayarpa Azadi, Azarpa Azevee Aziz, C	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hor Helena Hi, Shivangi I, Kunio Elizabeth Miho Yael Ji, Ifeoluwa Ji, Ifeoluwa Navid I, Stephen	MP 551 MP 405 MP 416 MP 416 MP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 523 TP 523 TP 488 TP 250 TP 250 TP 332 TP 488 TP 250 TP 488 TP 250 TP 488 TP 250 TP 488 TP 488 THP 443
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awazon, Ayabe Aylon, Ayode Ayode Ayode, Ayon, Ayrton Ayapa Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hanan HoF Helena Hi, Shivangi Hi, Shivangi Hi, Feoluwa Hiji, Ifeoluwa Hiji, Ifeoluwa Horouwa Horou	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 523 TP 523 TP 523 TP 488 TP 250 WP 339 ThP 764 ThP 443 WP 227 WP 228
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awazon, Ayabe Aylon, Ayode Ayode Ayode, Ayon, Ayrton Ayapa Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hor Helena Hi, Shivangi I, Kunio Elizabeth Miho Yael Ji, Ifeoluwa Ji, Ifeoluwa Navid I, Stephen	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 523 TP 523 TP 523 TP 488 TP 250 WP 339 ThP 764 ThP 443 WP 227 WP 228
Avtono Avtono Avula, Awad, Awad, Awad, Awast Awazu, Ayabe Aylon, Ayode Ayon, Ayrton Ayrton Ayrap Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dharathi Amber Hanan Hanan Hanan Hanan Hi, Shivangi I, Kunio Elizabeth Miho Yael III, Ifeoluwa III, Ifeo	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 488 TP 250 WP 339 ThP 764 TP 443 WP 227 WP 227 MP 228 TP 536
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awast Awazu Axtono, Ayabe Aylon, Ayode Ayode, Ayoro, Ayrton Azarpa Azarpa Azarpa Azeve Azi, Azarpa Azzam Baars,	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry bharathi Amber. Hanan MOF Helena. hi, Shivangi ,, Kunio Elizabeth. Miho Yael. ji, Ifeoluwa ji, Ifeoluwa Navid ,, Stephen. pan, Vinay. Parstoo. anah, Armita do, Luciano Omer. a, Shinji ,, Sausan Oliver.	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 680 TP 520 TP 523 TP 523 TP 488 TP 488 TP 488 TP 484 TP 443 WP 257 MP 228 TP 536 TP 183
Avtone Avtone Avtone Avula, Awad, Awad, Awast Awazu Axton, Ayabe Ayode Ayon, Ayrton Ayyap Azari, Azarpa Azave Azuma Azum	omov, Dmitry	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 523 TP 523 TP 488 TP 250 WP 339 TP 488 ThP 250 WP 339 TP 443 WP 227 WP 228 TP 536 TP 183 MP 479
Avtono Avtono Avtono Avula, Awad, Awad, Awast Awazu Axton, Ayabe Aylon, Ayrton Ayyap Azadi, Azarpa Azeve Aziz, (Azuma Azzam Baars, Baba, Baba,	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hor Helena Hi, Shivangi I, Kunio Elizabeth Miho Yael III, Ifeoluwa III, Ifeolu	MP 551 MP 405 MP 405 MP 416 MP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 604 TP 520 TP 523 TP 520 TP 183 MP 227 MP 228 TP 183 MP 479 MP 479 TP 618
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awaton, Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayarba Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hanan HoF Helena Hi, Shivangi Hi, Heoluwa Hij, Ifeoluwa Hij, Ifeoluwa Horium Hanan Ha	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 520 TP 523 TP 488 TP 250 TP 332 TP 488 TP 764 TP 764 TP 526 TP 526 TP 536 TP 536 TP 536 TP 183 MP 479 MP 479 MP 479
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awaton, Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayode Ayarba Azarpa	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Amber Hanan Hanan Hor Helena Hi, Shivangi I, Kunio Elizabeth Miho Yael III, Ifeoluwa III, Ifeolu	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 520 TP 520 TP 523 TP 488 TP 250 TP 332 TP 488 TP 764 TP 764 TP 526 TP 526 TP 536 TP 536 TP 536 TP 183 MP 479 MP 479 MP 479
Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awaton, Ayabe Aylon, Ayode Ayon, Ayrton Ayaph Azarpa A	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dharathi Amber Hanan Hanan Hanan Hanan Hanan Hi, Shivangi Hall Hall Hall Hall Hall Hall Hall Hal	MP 551 MP 405 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 523 TP 523 TP 488 TP 250 TP 369 TP 764 TP 544 TP 764 TP 183 TP 183 TP 183 MP 479 TP 618 TP 648 TP 648
Avtono Avtono Avtono Avula, Awad, Awad, Awast Awazu, Ayabe Aylon, Ayrtono Ayrt	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry bharathi Amber Hanan Hanan HoF Helena Hi, Shivangi Hi, Kunio Elizabeth Hillion Sael Hillion Helena Hillion	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 680 TP 520 TP 523 TP 523 TP 488 TP 488 TP 488 TP 487 MP 250 WP 339 ThP 443 WP 227 MP 228 TP 183 WP 27 MP 479 TP 618 TP 749 WP 463 THP 531
Avtone Avtone Avtone Avula, Awad, Awad, Awast Awazu Axton, Ayabe Ayode Ayode Ayor, Ayrton Ayapa Azeve Aziz, C Azuma Azama Baars, Baba, Baba, Babai, B	omov, Dmitry	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 488 TP 250 WP 339 ThP 250 WP 339 ThP 443 WP 227 MP 228 TP 536 TP 183 MP 479 TP 618 TP 749 WP 463 TP 531 MP 618
Avtone Avtone Avtone Avula, Awad, Awad, Awast Awazu Axton, Ayabe Aylon, Ayrton Ayon, Ayrton Ayyap Azarya Azarwa Azzam Baars, Baba, Baba, Baba, Babai, Bacala Bacala	omov, Dmitry omov, Dmitry omov, Dmitry omov, Dmitry Dmov, Dmitry Dharathi Bharathi Amber Hanan Hanan HoF Helena Hi, Shivangi I, Kunio Elizabeth I, Miho Yael Iji, Ifeoluwa	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 368 TP 534 TP 604 TP 523 TP 523 TP 523 TP 488 TP 523 TP 488 ThP 250 WP 339 WP 339 WP 37 TP 580 WP 380 WP 380 TP 580 WP 27 MP 618 TP 749 WP 463 TP 749 WP 463 TP 531 MP 618 WP 264
Avtono Avtono Avtono Avtono Avtono Avtono Avtono Avula, Awad, Awad, Awad, Awasti Awazu Axton, Ayode Ayode Ayode Ayode Ayode Ayoro Ayrton Ayrton Ayarpa Azarpa Azzam Baars, Baba, Baba, Baba, Baba, Baba, Baba, Baba, Babal, Bacala Bacala Bacala Bacala	omov, Dmitry	MP 551 MP 405 MP 406 MP 416 ThP 693 WP 396 ThP 182 WP 763 pm 02:30 MP 641 TP 136 TP 368 TP 534 TP 604 TP 604 TP 520 TP 520 TP 523 TP 488 TP 250 TP 520 TP 520 TP 540 TP 183 TP 488 ThP 250 WP 339 TP 183 WP 227 MP 228 TP 183 WP 227 MP 264 TP 618 TP 749 WP 463 TP 618 TP 749 WP 668 WP 6645

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Bachus Kylo	MP 450
Dachus, Kyle	VIF 450
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Dadea, Ildiko	
Bader, Chantai	MP 565
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Daulio, Dell	IIIOD alli 09.10
Bading-Taika, Bayissi.	ThP 571
Badu-Tawiah, Abrahar	nMP 055
Radu-Tawiah Ahrahan	nMP 065
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Bae, Jiyoung	ThP 182
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Dauuerman, Geen	
D	TD 000
Baggerman, Geert	TP 386
Baggerman, Geert	TP 386
Baggerman, Geert Baggerman, Geert	TP 386
Baggerman, Geert Baggerman, Geert Baggerman, Geert	TP 386
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert	TP 386TP 762WOF am 09:50WP 383
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus	TP 386TP 762WOF am 09:50WP 383
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus	TP 386TP 762WOF am 09:50WP 383
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Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen	TP 386 TP 762 WOF am 09:5C WP 383 ThP 376 MP 057
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul	TP 386
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul	TP 386 TP 762 WOF am 09:5C WP 383 ThP 376 MP 057
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghlab, Rahul Baghla, Rahul Baginski, Tomasz	TP 386
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baginski, Tomasz Bagley, Michael	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghla, Tomasz Bagley, Michael	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Helen Baghla, Rahul Baginski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus. Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baginski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358 MP 316
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus. Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baginski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358 MP 316
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baginski, Tomasz Bagley, Michael	TP 386 TP 762 WOF am 09:5C WP 383 ThP 376 MP 057 MP 057 WP 681 WP 058 MP 358 MP 358 MP 357 MP 617 ThP 142 WP 338
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 059 MP 358 MP 358 MP 364 ThP 176 MP 358
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghla, Rahul Baginski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagwan, Salman Bahrke, Sven Bai, Dina Bai, Hongxia	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 369 MP 369 MP 376 ThP 342 MP 342 TP 622 ThP 258
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 319 MP 617 ThP 142 WP 328 TP 622 ThP 623
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 319 MP 617 ThP 142 WP 328 TP 622 ThP 623
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus. Baghdady, Yehia Baghla, Rahul Baghla, Rahul Bagley, Michael Bagley, Michael Bagley, Michael Baghagha, Salman Bahrke, Sven Bai, Dina Bai, Hongxia Bai, Pengfei Bai, Xue	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358 MP 412 WP 388 TT 622 ThP 258 MP 623 MP 623
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus. Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baginski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagwan, Salman Bahrke, Sven Bai, Dina Bai, Hongxia Bai, Yue Bai, Yu	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358 MP 142 WP 338 ThP 142 WP 338 ThP 258 MP 622 MP 622 MP 622 MP 622
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 361 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 1225
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 359 MP 417 ThP 142 WP 338 TP 622 MP 623 MP 672 MP 064 ThP 225
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 359 MP 417 ThP 142 WP 338 TP 622 MP 623 MP 672 MP 064 ThP 225
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 368 MP 368 MP 142 WP 383 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 264 MP 176
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 314 WP 318 TP 622 ThP 258 MP 172 MP 064 ThP 205 WP 015
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 059 MP 358 MP 358 MP 314 WP 325 MP 172 MP 064 ThP 225 MP 172 MP 172 MP 172 MP 172 MP 172 MP 174 MP 175 MP 175 MP 175 MP 176
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 367 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 170 MP 064 TP 024 MP 716 MP 105
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 367 ThP 142 WP 388 TP 622 ThP 258 MP 623 MP 170 MP 064 ThP 225 MP 074 MP 716 MP 105
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 359 MP 617 ThP 132 MP 623 MP 623 MP 172 MP 064 ThP 225 MP 015 MP 105 TP 624 MP 734
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 383 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 WP 015 MP 105 TP 624 MP 716 TP 573
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 368 MP 368 MP 142 WP 383 TP 622 ThP 225 WP 015 MP 105 MP 105 TP 624 MP 716 MP 716 MP 716 MP 716 MP 716 MP 716 TP 572 TP 573
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 368 MP 368 MP 142 WP 383 TP 622 ThP 225 WP 015 MP 105 MP 105 TP 624 MP 716 MP 716 MP 716 MP 716 MP 716 MP 716 TP 572 TP 573
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 059 MP 358 MP 358 MP 376 MP 617 ThP 142 WP 338 TP 622 ThP 258 MP 172 MP 064 ThP 215 MP 172 MP 173 MP 175 MP 175 MP 175 MP 175 MP 175 MP 176 MP 17
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baghla, Rahul Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Baghey, Seen Bai, Pengfei Bai, Yu Bai, Yu Bai, Yu Baidoo, Edward Bailey, Aaron Bailey, Derek	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 358 MP 617 ThP 142 WP 388 TP 622 ThP 258 MP 623 MP 170 MP 064 ThP 225 WP 015 MP 105 MP 105 MP 105 MP 175 MP 106 MP 105 MP 106 MP 716 MP 717 MP 677 MP 677
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 132 WP 338 TP 622 MP 623 MP 172 MP 064 ThP 225 MP 175 MP 105 TP 624 MP 716 MP 716 MP 757 TP 573 TP 573 TP 576 TP 576 WP 070
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghla, Rinchael Bagley, Michael Bahrke, Sven Bai, Hongxia Bai, Hongxia Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Derek	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 MP 175 TP 627 TP 627 TP 573 TP 573 TP 576 TP 667 WP 070 MP 700 MP 265
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghla, Rinchael Bagley, Michael Bahrke, Sven Bai, Hongxia Bai, Hongxia Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Derek	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 MP 175 TP 627 TP 627 TP 573 TP 573 TP 576 TP 667 WP 070 MP 700 MP 265
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 383 TP 622 TP 622 WP 015 MP 105 TP 624 MP 716 MP 757 TP 573 TP 579 TP 667 WP 070 MP 205 MP 205 TP 626 TP 573 TP 579 TP 667 WP 070
Baggerman, Geert	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 172 MP 064 MP 172 MP 070 MP 716 MP 736 MP 736 MP 736 MP 716 MP 717
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baghski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagwan, Salman Bahrke, Sven Bai, Dina Bai, Hongxia Bai, Pengfei Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Aaron Bailey, Derek Bailey, Laura Bailey, Melanie Bailey, Mick	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 388 TP 622 ThP 258 MP 673 MP 175 MP 105 MP 105 MP 105 TP 626 MP 716 MP 175 MP 175 MP 175 MP 176
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baghski, Tomasz Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagley, Michael Bagwan, Salman Bahrke, Sven Bai, Dina Bai, Hongxia Bai, Pengfei Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Aaron Bailey, Derek Bailey, Laura Bailey, Melanie Bailey, Mick	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 388 TP 622 ThP 258 MP 673 MP 175 MP 105 MP 105 MP 105 TP 626 MP 716 MP 175 MP 175 MP 175 MP 176
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghski, Tomasz Bagley, Michael Bajley, Cerek Bailey, Derek Bailey, Laura Bailey, Mick Bailey, Mick Bailey, Mick Bailey, Mick Bailey, Ryan	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 132 ThP 326 MP 623 MP 623 MP 172 MP 064 ThP 225 MP 015 MP 175 TP 624 TP 572 TP 573 TP 573 TP 576 TP 576 TP 576 TP 576 MP 070 MP 700 MP 265 TP 784 ThP 347 WP 602
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdoyan, Helen Baghla, Rahul Baghla, Rahul Bagley, Michael Bajley, Cerek Bai, Yu Bai, Yu Baidoo, Edward Bailey, Derek Bailey, Laura Bailey, Laura Bailey, Melanie Bailey, Mick Bailley, Mick Baillie, Joanne	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 383 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 MP 175 TP 675 TP 675 TP 577 TP 578 TP 579 TP 667 MP 7748 ThP 347 MP 764 MP 7748 ThP 367 MP 7748 ThP 367 MP 7748 ThP 367 MP 766 MP 7748 THP 367 MP 767 MP 7748 THP 367 MP 766 MP 7748 THP 367 MP 766 MP 778 MP 770 MP 77
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baghla, Rahul Baghla, Ki, Tomasz Bagley, Michael Bajley, Alleria Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Derek Bailey, Laura Bailey, Laura Bailey, Mick Bailey, Ryan Baillie, Joanne Baillie, Joanne Bain, Ryan	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 059 MP 358 MP 359 MP 617 ThP 142 WP 338 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 WP 015 MP 105 TP 624 MP 716 MP 716 MP 757 TP 573 TP 573 TP 579 TP 667 WP 070 MP 266 TP 748 ThP 367 MP 602 MP 172 MP 604 MP 700 MP 700 MP 700 MP 266 TP 748 ThP 367 WP 070 MP 266 TP 748 ThP 367 WP 602 MP 602
Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baggerman, Geert Baghalabadi, Venus Baghdady, Yehia Baghdady, Yehia Baghla, Rahul Baghla, Rahul Baghla, Ki, Tomasz Bagley, Michael Bajley, Alleria Bai, Yu Bai, Yu Bai, Yu Bai, Yu Bailey, Aaron Bailey, Derek Bailey, Laura Bailey, Laura Bailey, Mick Bailey, Ryan Baillie, Joanne Baillie, Joanne Bain, Ryan	TP 386 TP 762 WOF am 09:50 WP 383 ThP 376 MP 057 ThP 533 WP 681 WP 058 MP 358 MP 358 MP 617 ThP 142 WP 383 TP 622 ThP 258 MP 623 MP 172 MP 064 ThP 225 MP 175 TP 675 TP 675 TP 577 TP 578 TP 579 TP 667 MP 7748 ThP 347 MP 764 MP 7748 ThP 367 MP 7748 ThP 367 MP 7748 ThP 367 MP 766 MP 7748 THP 367 MP 767 MP 7748 THP 367 MP 766 MP 7748 THP 367 MP 766 MP 778 MP 770 MP 77

Assuncao, Nilson WP 084
Astefanei, Alina MOC pm 04:10
Astefanei, Alina WOC pm 02:30
Asumendi, Aintzane ThP 229
Aszalos, Bela TP 777
Atamanchuk, Bohdan TP 174
Atigadda, Venkatram TP 327
Atkins, Alan MP 145

 Atkinson, Kieran
 WP 570

 Atkinson, Stephanie
 TP 745

 Attah, Isaac
 MOF am 08:30

Bairey Merz, NoelThOF a	
	m 10:10
Bairey Merz, Noel	WP 224
Baiwir, Dominique	
Baiwir, Dominique	
Bajaj, Jasmohan	
Bajic, Steve	
Bajic, Steve	
Bajoub, Aadil	
Bajwa, Barinder	
Bajwa, Barinder	
Baker, Andrew	
Baker, Andrew	
Baker, Danielle	
Baker, David	
Baker, Erin	ThP 318
Baker, Erin	.TP 401
Baker, Jeanne	ThP 141
Baker, Kristie	ThP 290
Baker, Olivia	.TP 052
Baker, Paul	
Baker, Peter	MP 438
Baker, Peter	WP 653
Baker, Timothy	
Bakhtina, Anna	ThP 631
Bakke, James	WP 351
Baksi, Ananya	
Balasubramaniam, Deepa	MP 294
Balbo, Silvia	ThP 503
Balbo, Silvia	
Balcer, Jesse	
Balcer, Jesse	
Baldeiras, Inês	
Baldwin, Anne	
Bali, Deeksha	
Balinski, AndrzejThOA a	
Baliu-Rodriguez, David	MD 427
Ballu-Rodriguez, David	
Ball, Geneviève	WP 054
Ball, KerriTOD p	
Ball, Lauren	
Ball, Lauren	
Ballet, Caroline	
Balligand, Jean-Luc	
Balog, Aaron	ThP 630
Balog, Julia	ThP 007
Balog, Julia	ThP 007 ThP 031
Balog, JuliaBalog, Julia	ThP 007 ThP 031 ThP 032
Balog, Julia Balog, Julia Balog, Julia	ThP 007 ThP 031 ThP 032 ThP 046
Balog, Julia	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532
Balog, Julia	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50
Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia WOE p	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30
Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia WOE palog, Julia WOE palog, Julia WOG palog, Julia WOG p	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30
Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia WOE palog, Julia WOE palog, Julia WOG palog, Julia WOG palog, Julia WOG palog, Julia	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10
Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia WOE palog, Julia WOE palog, Julia WOG palog, Julia WOG palog, Julia WOG palog, Julia	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia WOG p Balog, Julia WOH p Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 WP 392 m 04:10 WP 630 m 03:30
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko WOH p Balskus, Emily	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 WP 392 m 04:10 WP 630 m 03:30
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia WOG p Balog, Julia WOH p Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200
Balog, Julia WOG p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balskus, Emily Baltier, Kurt Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balskus, Emily Baltier, Kurt. MOA p Baltzer, Katherine Baluya, Dodge	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397
Balog, Julia WOG p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balskus, Emily Baltier, Kurt Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge	ThP 007 ThP 031 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087
Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia WOE p Balog, Julia WOG p Balog, Julia WOG p Balog, Julia WOG p Balog, Julia WOG p Balschun, Wilko WOH p Balskus, Emily Baltier, Kurt MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Takeshi	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 542 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Baltier, Kurt. MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Woh p Balster, Kurt MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Takeshi Bamba, Takeshi Bamba, Takeshi	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Baltier, Kurt. MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446 ThP 070
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balskus, Emily Balstier, Kurt. MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge Bamba, Takeshi	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446 ThP 070 m 10:10
Balog, Julia WOE palog, Julia WOE palog, Julia WOG palog, Julia Balschun, Wilko WOH palskus, Emily Baltier, Kurt MOA paltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Takeshi Bamba, Takeshi Banazadeh, Alireza	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446 ThP 070 m 10:10 MP 380
Balog, Julia WOE p Balog, Julia WOG p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Banda, Takeshi Bandara, Nuno Bandeira, Nuno Bandeira, Nuno	ThP 007 ThP 031 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 397 ThP 462 .TP 097 WP 446 ThP 070 m 10:10 MP 380 MP 380
Balog, Julia WOE p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wolko Balschun, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Banazadeh, Alireza Bandeira, Nuno Bandeira, Nuno Bandeira, Nuno Bandeira, Nuno Bandeira, Nuno Bandeira, Nuno	ThP 007 ThP 031 ThP 032 ThP 046 ThP 546 ThP 546 Th 932 M 02:50 M 03:30 M 02:30 WP 392 M 04:10 WP 630 MP 200 .TP 397 .TP 399 MP 047 ThP 462 .TP 097 WP 446 ThP 070 MP 380 MP 388 MP 398 MP 439
Balog, Julia WOE p Balog, Julia Balschun, Wilko Balschun, Wilko Balschun, Wilko Balschun, Wolko Balsus, Emily Baltier, Kurt MOA p Baltzer, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Banazadeh, Alireza Bandeira, Nuno	ThP 007 ThP 031 ThP 032 ThP 032 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 MP 200 .TP 397 .TP 397 MP 087 ThP 462 .TP 097 WP 446 ThP 070 m 10:10 MP 380 MP 380 MP 349 MP 442
Balog, Julia WOE p Balog, Julia Balschun, Wilko Baltier, Kurt Baltier, Kurt Baltier, Kurt Baltier, Katherine Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Dodge Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Banazadeh, Alireza Bandeira, Nuno	ThP 007 ThP 031 ThP 032 ThP 036 ThP 046 ThP 532 m 02:50 m 03:30 m 02:30 WP 392 m 04:10 WP 630 m 03:30 MP 200 .TP 397 .TP 399 MP 087 ThP 462 .TP 097 WP 446 ThP 070 m 10:10 MP 380 MP 380 MP 398 MP 442 MP 445
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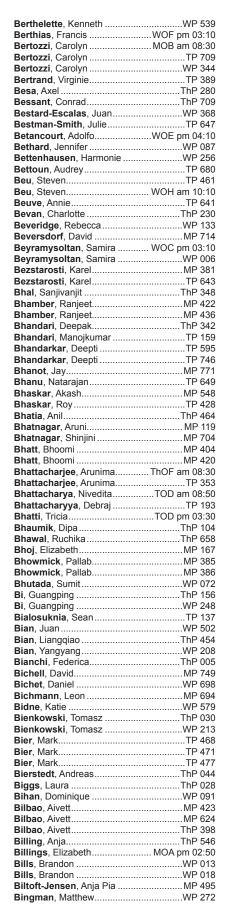
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Bayır, HülyaTOD	am 09:30
Bayır, Hülya	
Baykut, Goekhan	MP 472
Baynham, Mike	WP 208
Beach, Thomas	
Bearden, Rebecca	
Beasley, Maryssa	INP 619
Beasley, ShelbyWOA	nm 02:50
Beaton, Nigel	ThP 139
Beaudin, Julie	ThP 759
Beaudin, Sarah	WP 666
Beaudry, Francis	MP 764
Beaumont, Maribel	VVP 695
Beaumont, Maribel	
Beauvois, Romain WOD	pm 02:30
Bebrin, Nicole	WP 061
Becher, Francois MOB	
Becher, Francois	
Beck, Alain	
Becker, KatjaTOD	
Becker, Lance	
Becker, Michael	TP 375
Beckman, JosephMOD	
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Beckman, Joseph	TP 731
Beckman, JosephBeckman, Joseph	TP 731 WP 448
Beckman, Joseph	TP 731 WP 448 TP 487 WP 437
Beckman, Joseph	TP 731 WP 448 TP 487 WP 437 am 09:50
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Beckman, Joseph Beckman, Joseph Bedford, Leigh Bedford, Leigh Bedi, Kenneth WOA Bedran, Georges Bedran, Georges Bedran, Georges Bee, Madeleine Bee, Madeline Beecher, Chris	TP 731 WP 448 TP 487 WP 437 am 09:50 MP 579 MP 707 ThP 719 ThP 185 ThP 200 ThP 193 MP 575
Beckman, Joseph	TP 731WP 448TP 487WP 437 am 09:50MP 579MP 707ThP 719ThP 185ThP 200ThP 193ThP 575TP 563
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Beckman, Joseph	TP 731WP 448TP 487WP 437WP 9437MP 579MP 707ThP 719ThP 185ThP 200ThP 193MP 575MP 575TP 563WP 576WP 600
Beckman, Joseph	TP 731WP 448TP 487WP 437 am 09:50MP 579MP 707ThP 719ThP 185ThP 200ThP 193MP 575TP 563WP 576WP 600WP 600

Beghine, Jérémie	TP 148
Behr, Juergen Behrens, Arne	1P 654 WP 497
Behsaz, Bahar	
Beitia, Maider	WP 071
Bekemeier, Tom	MP 631
Bekker-Jensen, DorteBekker-Jensen, Dorte	TP 034
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Belau, Eckhard	
Belenky, Alexei	ThP 088
Belford, Michael	
Belford, MichaelBelford, Michael	
Belford, Michael	
Belford, Michael	
Belford, Michael	TP 572
Belford, Michael	
Belford, MichaelBelford, Michael	
Belford, Michael	
Beliaeva, Olga	TP 327
Belinsky, Steven	
Belk, Keith Bell, Ashley	
Bell, Ashley	
Bell, Ashley	TP 619
Bell, David	ThP 020
Bell, Richard	
Bell, SethBell, Sheryl	IP 084 MP 467
Bell, Sheryl	
Bell, Stephen	
Bellaire, Bryan	TP 042
Bellamri, Medjda	TP 542
Bellew, Allen Bellina, Bruno	ThOH pm 02:50
Bellina, Bruno	ThP 648
Bellina, Bruno	TOB am 09:30
Bellingeri, Francesca	
Bellotti, Vittorio	WP 682
Belongia, Daniel	WP 682 MP 785
Belotti, Vittorio	WP 682 MP 785 ThOD am 08:30 .MOG pm 04:10
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Bellotti, Vittorio	WP 682 MP 785 ThOD am 08:30 .MOG pm 04:10 ThP 168 WP 458
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Benter. Thorsten		.ThP	297
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Benter Thorston		TD	200
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Benter, Thorsten		TP	453
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Bentley, Adam	.TOD a	am 10	0:10
Bentley, Mackenzie		MP	001
Benton, Betsy		ThP	664
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Benton, Paul			
Bentz, Ehren		.ThP	730
Benz, Ryan		TP	668
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Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergquist, Jonas		WP TP TP TP .ThP WP	708 647 386 330 410 055
Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav. Bergquist, Jonas Bergström Lind, Sara		WP TP TP ThP .ThP WP	708 647 386 330 410 058
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Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergquist, Jonas Bergström Lind, Sara Berhane, Beniam Beri, Joshua Berkout, Vadym Bermudez, Abel Bern, Marshall Bern, Marshall Bern, Marshall Bern, Marshall Bern, Marshall	MOA a	WPTPTPTPWPWPMPTPTPTPTPWPMPMP	708 647 386 330 410 058 078 572 037 8:50 698 709 228 333 300 612 782 9:30
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Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergquist, Jonas Bergström Lind, Sara Berhane, Beniam Beri, Joshua Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall	MOA a	WPTPTPWPWPWPTPWPTPWPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPTPWPMPTPMPTPMPTPMPTPMP	708 647 386 330 410 055 57 037 8:50 695 228 333 300 61 675 782 9:30 617 637 720 638 720 638 720 638 720 720 720 720 720 720 720 720 720 720
Berger, Shelley Bergeron, Michel G Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bern, Marshall Bernhardt, Oliver Bernhardt, Oliver		WPTPTPWPWPMPTPTPWPMPMPWPWPWPWPWPMP	708 647 386 330 410 055 078 572 037 335 695 709 228 333 300 614 675 782 9:30 637 782 782 783 783 783 783 783 783 783 783 783 783
Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall	.TOA;	WPTPTPWPWPMPWPWPWPWPWPWPWPWPWPMP	708 647 386 330 410 055 078 572 037 335 695 709 617 637 782 9:30 617 637 782 782 782 782 783 783 783 783 783 783 783 783 783 783
Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Berguist, Jonas Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall Bernhardt, Oliver Bernhardt, Oliver Bernhardt, Oliver Bernhardt, Oliver	.TOA; .TOA; .TOA; .TOA;	WPTPTPWPWPMPTPWPWPWPWPWPWPWPMP	708 647 338 410 055 078 57 037 335 695 228 330 61 675 782 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 637 720 720 720 720 720 720 720 720 720 72
Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Berguist, Jonas Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall Bernhardt, Oliver Bernhardt, Oliver Bernhardt, Oliver Bernhardt, Oliver	.TOA; .TOA; .TOA; .TOA;	WPTPTPWPWPMPTPWPWPWPWPWPWPWPMP	708 647 336 410 055 078 57 037 350 695 228 330 61 678 782 782 782 782 782 782 782 783 783 783 783 783 783 783 783 783 783
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Berger, Shelley Bergeron, Michel G Berghmans, Eline Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall Bernhardt, Oliver	MOA a	WPTPTPWPMPMPMPWPMPWPMPWPMP	708 647 338 330 410 058 058 078 5037 3:50 612 633 782 228 333 612 637 720 633 720 720 720 720 720 720 720 720 720 720
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Berger, Shelley Bergeron, Michel G. Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergquist, Jonas Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall	TOA;	WPTPTPWPWPWPWPWPWPWPWPWPMPWPMP	708 647 336 330 410 058 058 572 333 300 678 228 333 667 787 787 787 787 787 787 787 787 787
Berger, Shelley Bergeron, Michel G Berghmans, Eline Berghmans, Eline Bergman, Elizabeth Bergo, Vladislav Bergström Lind, Sara Berhane, Beniam Berkout, Vadym Berman, Paula Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bermudez, Abel Bern, Marshall Bernhardt, Oliver	TOA;	WPTPTPWPWPWPWPWPWPWPWPWPMPWPMP	708 647 336 330 410 058 058 572 333 300 678 228 333 667 787 787 787 787 787 787 787 787 787



Bini, Andressa	ThP 252
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Binnersley, Cory	WP 468
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Birbeck, Johnna	
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Bird, Gregory	ThP 652
Birdsall, Robert	ThP 678
Birer, Caroline	WOA pm 04:10
Biringer, Roger	MP 564
Birk, Alisha	TD 604
Birk, Alisha	
Dirk, Alistia	TP 708
Birley, Andrew	
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Bishof, Isaac	
Bishop, David	
Bishop, David	TP 175
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Bjelic, Sasa	NIP 113
Black, Alyson	IVIP 337
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Black, Gabrielle	
Black, Marsha	MP 141
Black, Rachelle	ThOH pm 02:50
Blackburn, Kevin	.MOH pm 04:10
Blackburn, Mary	MP 190
Blackburn. Marv	
Blackburn, MaryBlackburn, Mary	ThP 024
Blackburn, Mary	ThP 024
Blackburn, Mary Blackburn, Mary	ThP 024 TP 107 TP 526
Blackburn, MaryBlackburn, MaryBlackburn, MaryBlackburn, Mary	ThP 024TP 107TP 526
Blackburn, MaryBlackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary	ThP 024TP 107TP 526TP 527
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary	ThP 024TP 107TP 526TP 527WP 303
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael	ThP 024TP 107TP 526TP 527WP 303WP 527WP 696
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackstock, Lindsay	ThP 024TP 107TP 526TP 527WP 303WP 527WP 696TOE am 08:50
Blackburn, Mary	ThP 024 TP 107 TP 527 TP 527 WP 303 WP 527 WP 696 TOE am 08:50
Blackburn, Mary	ThP 024 TP 107 TP 527 TP 527 WP 303 WP 527 WP 696 TOE am 08:50
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackstock, Lindsay	ThP 024 TP 107 TP 527 TP 527 WP 303 WP 527 WP 696 TOE am 08:50 ThP 060
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 060 ThP 726
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:50 ThP 060 ThP 726 ThP 766
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 060 ThP 726 WP 514
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 066 ThP 726 WP 514 ThP 533
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 513 TP 598
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 685 TOE am 08:56 ThP 766 WP 514 ThP 533 TP 598 MP 623
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 TP 596 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 146
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:56 TP 147 ThP 408
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:56 TP 147 ThP 408
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:50 TP 146 TP 377 THP 408 TP 153
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:50 TP 146 TP 377 THP 408 TP 153
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 WP 303 WP 527 WP 696 TOE am 08:50 ThP 766 ThP 766 WP 514 ThP 533 TP 596 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:50 TP 146 TP 377 THP 408 TP 153 MP 258
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 TP 596 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 146 TP 156 MP 408 TP 159 MP 623 TP 159 TP 146 TP 159
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackstock, Lindsay Bladergroen, Marco Blair, Ian Blair, Ian Blake, Daniel Blakeley-Ruiz, Jose Blakeley-Ruiz, Jose Blakeman, Kenion Blakeslee, Joshua Blakney, Greg Blakney, Greg Blakney, Greg Blakney, Gregory Blanco-Tirado, Cristian Bland, Alison Blankenburg, Sascha Blankenship, Robert	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 726 TP 148 TP 179 ThP 408 TP 179 THP 408 TP 179 ThP 408 TP 179 ThP 408 TP 185
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 721 TOE am 09:50 TP 148 TP 153 WP 256 MP 766 TP 153
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 606 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 148 TP 153 WP 258 MP 766 MP 763
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:56 TP 146 TP 726 TP 147 TP 178 TP 178 TP 178 MP 623 MP 623 MP 763 MP 344 WOG am 08:56
Blackburn, Mary	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 686 TOE am 08:56 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 737 ThP 408 TP 138 MP 344 TOG pm 03:50 TP 737 ThP 408 TP 138 MP 344 TOG am 08:56 MP 763
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackstock, Lindsay Bladergroen, Marco Blair, Ian Blair, Ian Blake, Daniel Blakeley-Ruiz, Jose Blakeeley, Joshua Blakeslee, Joshua Blakney, Greg Blakney, Greg Blakney, Greg Blakney, Gregory Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blankenburg, Sascha Blankenburg, Sascha Blankenship, Robert Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blanksbre, Jim	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 737 ThP 408 TP 148 TP 377 ThP 408 TP 377 ThP 408 TP 138 MP 633 MP 254 MP 763 MP 763 MP 763 TP 361 TP 378 TP 377 ThP 408 TP 159 MP 763 TP 759 TP 547
Blackburn, Mary	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 768 WP 514 ThP 533 TP 536 TP 526 MP 344 TOG pm 03:50 TP 721 TOE am 09:56 TP 148 TP 153 WP 258 MP 623 MP 344 WOG am 08:36 MP 244 WOG am 08:36 MP 752 TP 547
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackstock, Lindsay Bladergroen, Marco Blair, Ian Blair, Ian Blake, Daniel Blakeley-Ruiz, Jose Blakeeley, Joshua Blakeslee, Joshua Blakney, Greg Blakney, Greg Blakney, Greg Blakney, Gregory Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blankenburg, Sascha Blankenburg, Sascha Blankenship, Robert Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blanksbre, Jim	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 768 WP 514 ThP 533 TP 536 TP 526 MP 344 TOG pm 03:50 TP 721 TOE am 09:56 TP 148 TP 153 WP 258 MP 623 MP 344 WOG am 08:36 MP 244 WOG am 08:36 MP 752 TP 547
Blackburn, Mary	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 WP 514 ThP 533 TP 598 MP 623 MP 344 TOG pm 03:50 TP 124 TP 153 WP 256 MP 766 MP 766 TP 179 MP 349 MP 763 TP 1983
Blackburn, Mary	ThP 024 TP 107 TP 526 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 ThP 766 MP 533 TP 598 MP 623 MP 344 TOG pm 03:56 TP 146 TP 153 WP 514 WP 514 TOG am 08:56 MP 766 TP 178 MP 763 MP 344 WOG am 08:36 MP 763 TP 386 MP 763 ThP 361 TP 376 TP 176
Blackburn, Mary	ThP 024 TP 107 TP 107 TP 527 WP 303 WP 527 WP 608 TOE am 08:56 ThP 768 WP 514 ThP 513 TP 598 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 148 TP 377 ThP 408 TP 138 MP 623 MP 623 MP 763 MP 763 TP 138 TP 759 MP 763 TP 146 TP 157 TP 157 TP 157 TP 157 ThP 408 TP 158 TP 759 TP 761 TP 761 TP 761 TP 761 TP 761 TP 761 TP 767 TP 767 TP 767 TP 767 TP 767 TP 767
Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Michael Blackburn, Michael Blackstock, Lindsay Bladergroen, Marco Blair, Ian Blair, Ian Blake, Daniel Blake, Daniel Blakeley-Ruiz, Jose Blakeeley, Greg Blakney, Greg Blakney, Greg Blakney, Greg Blakney, Gregory Blakney, Gregory Blakney, Gregory Blakney, Gregory Blakney, Gregory Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Blankenburg, Sascha Blankenship, Robert Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blanksby, Stephen Blankon, Brian Blasberg, Jim Blaschke, Calvin Blastolder, Christian Bleiholder, Christian Bleiholder, Christian Bleiholder, Christian	ThP 024 TP 107 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 737 ThP 408 TP 148 TP 377 ThP 408 TP 377 ThP 408 TP 148 TP 377 ThP 408 TP 159 MP 763 MP 254 MP 763 ThP 361 TP 378 ThP 361 TP 378 ThP 361 TP 179 ThP 408 TP 179 ThP 179 ThO 179
Blackburn, Mary	ThP 024 TP 107 TP 527 WP 303 WP 527 WP 696 TOE am 08:56 ThP 766 WP 514 ThP 533 MP 623 MP 344 TOG pm 03:56 TP 721 TOE am 09:56 TP 721 TOE am 09:56 TP 731 TP 338 MOG am 08:36 MP 244 WOG am 08:36 MP 245 WOG am 08:36 TP 752 TP 597 TP 185 TP 759 TP 185 TP 759 TP 750 TP 750 TP 750 TP 750 TP 547 TP 750 TP 547 TP 751 TP 547 TP 122 TP 033

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Playing Aubric	TD 522
Blevins, Aubrie	1P 532
Blevins, Molly	
Blevins, Molly	ThP 609
Blin-Simiand, Nicole	
Block, Sara	
Blokland, Marco	MP 196
Blokland, Marco	TOF nm 03:10
Blom, Paul	
Blonder, Josip	
Bloodsworth, Kent	MP 077
Bloodsworth, Kent	MD 624
Bioousworth, Rent	IVIF 024
Bloodsworth, Kent	
Bloodworth, Sally	TOB am 08:30
Bloomfield, Nic	ThP 107
Bloomfield, Nic	
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Blount, Benjamin	ThP 342
Diodni, Berljamin	TLD 000
Bludau, Isabell	
Blum, David	MP 566
Blundell, Malcolm	
D. T.	
Bo , Tao	
Bo , Tao	WP 289
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Boaro, Amy	
Bobbitt, Jonathan	TP 168
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Bodvarsdottii, Sigriddi	
Boehm, Guenter	MOG am 08:50
Boehm, Guenter	WP 571
Boeser, Cornelia	MP 446
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Danasa Camalia	
Boeser, Cornelia	ThP 024
	ThP 024
Boeser, Cornelia	ThP 024
Boeser, CorneliaBoettcher, Tara	ThP 024 TP 107 MOB pm 04:10
Boeser, Cornelia Boettcher, Tara Boggeri, Mark	ThP 024 TP 107 MOB pm 04:10 WP 636
Boeser, Cornelia Boettcher, Tara Boggeri, Mark	ThP 024 TP 107 MOB pm 04:10 WP 636
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin	ThP 024 TP 107 MOB pm 04:10 WP 636 TOG am 09:50
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron	ThP 024TP 107 MOB pm 04:10WP 636TOG am 09:50
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr	ThP 024TP 107 MOB pm 04:10WP 636TOG am 09:50MP 013
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 208
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647 .ThOB pm 02:30
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr Boisdon, Cedric Boissinot, Maurice Boiteau, Rene Boivin, Guy	ThP 024TP 107MOB pm 04:10WP 636MP 013MP 208WP 208TP 647ThOB pm 02:30
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr Boisdon, Cedric Boissinot, Maurice Boiteau, Rene Boivin, Guy	ThP 024TP 107MOB pm 04:10WP 636MP 013MP 208WP 208TP 647ThOB pm 02:30
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggo, Kristin Boice, Aaron Boichenko, Oleksandr Boisdon, Cedric Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel	ThP 024TP 107MOB pm 04:10WP 636MP 013WP 208WP 026TP 647ThOB pm 02:30ThP 436
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647 ThOB pm 02:30ThP 436MP 029TP 432
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647 .ThOB pm 02:30ThP 436MP 029TP 432WP 035
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647 .ThOB pm 02:30ThP 436MP 029TP 432WP 035
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30ThP 436MP 029TP 432WOD am 09:50
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30ThP 436MP 029TP 436WP 029TP 436
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208MP 029TP 647 .ThOB pm 02:30MP 029TP 432MP 029TP 432WOD am 09:50MP 554WOD am 09:50
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208MP 029TP 647 .ThOB pm 02:30MP 029TP 432MP 029TP 432WOD am 09:50MP 554WOD am 09:50
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggo, Kristin Boice, Aaron Boichenko, Oleksandr Boissinot, Maurice Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel Bojko, Barbara Bojko, Barbara Bokor, Benjamin boland, aurelien	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30ThP 436MP 029TP 432MP 059MP 554WOD am 09:50WP 496WO pm 02:30
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50WP 026WP 026ThP 647ThOB pm 02:30ThP 436MP 029TP 432WOD am 09:50WP 456WO am 09:50WP 496WOG pm 02:30WOG am 08:30
Boeser, Cornelia	ThP 024TP 107
Boeser, Cornelia	ThP 024TP 107
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208TP 647ThOB pm 02:30ThP 436MP 029TP 436MP 059MP 554WOD am 09:50WP 496WO am 08:30WO am 08:30WO am 08:30WO am 08:30WO am 08:50
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr Boisdon, Cedric Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel Bojko, Barbara Bojko, Barbara Bokor, Benjamin boland, aurelien Bolivar, Erick Bolliyer, Reto Bollwein, Christine Bolotin, Igor	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208TP 647ThOB pm 02:30TP 436MP 029TP 436MP 029TP 436MP 059MP 554WOD am 09:50WP 496WO g pm 02:30WOB am 08:30WOB am 08:50MP 373TOB am 08:50
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggo, Kristin Boice, Aaron Boichenko, Oleksandr Boissinot, Maurice Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel Bojko, Barbara Bojko, Barbara Bokor, Benjamin boland, aurelien Bolivar, Erick Bolliger, Reto Bollwein, Christine Bolotin, Igor Bomba-warczak, Ewa	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30TP 432WD am 09:50MP 554WOD am 09:50WP 496WO am 08:50WP 373WOG am 08:50WB 373
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel Bojko, Barbara Bojko, Barbara Bojko, Barbara Bojko, Benjamin boland, aurelien Bolivar, Erick Bolliger, Reto. Bollwein, Christine. Bolotin, Igor Bomba-warczak, Ewa Bomba-warczak, Ewa	ThP 024 TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30TP 436MP 029TP 432WOD am 09:50MP 554WOD am 09:50WP 496WO am 08:50WP 373WO am 08:50WP 373TOB am 08:50TP 659TP 669
Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggo, Kristin Boice, Aaron Boichenko, Oleksandr Boissinot, Maurice Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel Bojko, Barbara Bojko, Barbara Bokor, Benjamin boland, aurelien Bolivar, Erick Bolliger, Reto Bollwein, Christine Bolotin, Igor Bomba-warczak, Ewa	ThP 024 TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30TP 436MP 029TP 432WOD am 09:50MP 554WOD am 09:50WP 496WO am 08:50WP 373WO am 08:50WP 373TOB am 08:50TP 659TP 669
Boeser, Cornelia	ThP 024TP 107MOB pm 04:10WP 636TOG am 09:50WP 026TP 647ThOB pm 02:30ThP 436MP 029TP 432WOD am 09:50MP 554WOD am 09:50WP 496WOG pm 02:30WOG am 08:50WP 373TOB am 08:50WP 373TOB am 08:50
Boeser, Cornelia	ThP 024 TP 107 MOB pm 04:10 WP 636 TOG am 09:50 MP 013 WP 208 WP 026 TP 647 ThOB pm 02:30 MP 554 WOD am 09:50 WP 496 WOD am 09:50 WP 496 WOD am 08:30 MOG am 08:50 WP 373 TOB am 08:50 TP 659 TP 669 TP 697 TP 701
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Boeser, Cornelia Boettcher, Tara Boggeri, Mark Boggio, Kristin Boice, Aaron Boichenko, Oleksandr Boissinot, Maurice Boissinot, Maurice Boiteau, Rene Boivin, Guy Boivin, Isabel Boja, Emily Bojaci, Ezel. Bojko, Barbara Bojko, Barbara Bokor, Benjamin boland, aurelien Bolivar, Erick Bolliger, Reto. Bollwein, Christine Bolotin, Igor Bomba-warczak, Ewa Bomgarden, Ryan Bomgarden, Ryan	ThP 024 TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30TP 436MP 029TP 432WOD am 09:50MP 554WOD am 09:50WP 496WO g m 02:30WO g m 02:30WO g m 02:30WO g m 08:50TP 659TP 659TP 669TP 669TP 670TP 701MP 601TP 701MP 601TP 7148
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Boeser, Cornelia	ThP 024 TP 107MOB pm 04:10WP 636TOG am 09:50MP 013WP 208WP 026TP 647ThOB pm 02:30MP 029TP 436MP 029WP 436WP 354WOD am 09:50WP 496WO am 08:50WP 496WO am 08:50WP 373TOB am 08:50TP 659TP 669TP 697TP 701MP 601TP 774TP 759WP 144
Boeser, Cornelia	ThP 024 TP 107 MOB pm 04:10 WP 636 TOG am 09:50 MP 013 WP 208 WP 026 TP 647 ThOB pm 02:30 MP 554 WOD am 09:50 WP 496 WOD am 09:50 WP 496 WOD am 08:50 WOD am 08:50 TP 659 TP 659 TP 669 TP 697 TP 701 MP 601 ThP 748 TP 059 WP 144
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Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie	WP 464
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Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradenthäuser, Yessica Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa Bramer, Lisa Bramer, Lisa	WP 464 WP 434 WP 444 WP 465 MOA pm 03:50 MOE pm 02:56 MOE pm 03:11 MP 444 MP 712 ThP 508 WP 029 ThP 49 WP 212 ThP 455 MP 445 MP 742 ThP 246
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradley, Dave Bradley, Meghan Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa	WP 464 WP 435 WP 447 WP 467 MOA pm 03:50 MOE pm 02:50 MOE pm 03:10 MP 447 MP 712 ThP 508 WP 092 ThP 497 MP 212 TP 456 MP 077 ThP 247 TP 440
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa	
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa	
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa Brand, Tony Brandenburg, Marci	
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradleman, Dain Bradley, Dave Bradley, Meghan Bradley, Meghan Bradley, Reslie Bragg, Leslie Bragg, Leslie Bragg, Villiam Bräkling, Steffen Bramer, Lisa Brandenburg, Marci Brandt, Sebastian Brandt, John	WP 464 WP 434 WP 444 WP 465 MOA pm 03:50 MOE pm 02:56 MOE pm 03:10 MP 444 MP 712 ThP 500 WP 093 ThP 499 WP 212 TP 453 MP 077 ThP 247 TP 400 WP 400 WP 400 TP 490
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Meghan Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa Brand, Tony Brandenburg, Marci Brandt, Sebastian Brann, John Brann, Tess	
Brachthaeuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradau, Calin Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Brademan, Dain Bradlee, Dave Bradley, Meghan Bradley, Meghan Bradley, Paul Bradshaw, Tyler Braekling, Steffen Bragg, Leslie Bragg, William Bräkling, Steffen Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa Bramer, Lisa Brand, Tony Brandenburg, Marci Brand, Tony Brand, John Brann, John Brann, John Brann, Tess Brann, Tess Brann, Tess Brannt, Matthew	WP 464
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Brassard, Jeremy	WP 703
Bratburd, Jennifer	InP 527
Brauer, Brooke	IP 627
Braun, Craig Braun, Craig	
Braun, Craig	IP / 10
Braun, CraigTOE	nm 02:30
Braun, Thomas	ThP 718
Bravo, Cristian	MP 054
Bray, Fabrice	MP 376
Bray, Fabrice	MP 637
Bray, Fabrice	TP 033
Bray, Fabrice	WP 471
Brazma, Alvis	
Breadmore, Michael	ThP 562
Brechenmacher, LaurentThOF	IP 657
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Breinholdt Bekker-Jensen, DorteWO	IVIP 390
Breitbach, Martin	
Brelsford, Jeffrey	MP 647
Brelsford, Jeffrey	ThP 638
Brelsford, Jeffrey	TP 580
Bremer, Monique	MP 196
Brenna, Tom	MP 542
Brenna, TomTOB	pm 03:10
Brenna, Tom Brennan, Caitlin	WP 520
Brennan, Caitiin Brennan, Paul	VVP 630
Brescia, FrancescaWOF	nm 04·10
Breuer. Matthew	TP 469
Breuer, MatthewThOH	pm 04:10
Brewer, Maya	TP 381
Bricklebank, Neil	ThP 172
Brickman, JoshuaThOC	pm 03:50
Bridgeman, Thomas	TP 186
Bridgewater, HannahBridon, Gaelle	IP 706
Bridon, Gaeile Bridoux, Maxime	MP 266
Briere, Francis	
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Brinster, Keil	MD 183
Briois, Christelle	MP 493
Brisbin, Martin	WP 475
Bristow, Anthony WOH	am 08:50
Britt, Hannah	MP 049
Brnakova Kenedy, Zuzana	ThP 217
Broadbent, James	
Broadwater, Maggie	
Brocku, Denis	
Brocks, JochenBrodbelt, Jennifer	
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Brodbelt, JenniferTOB	am 09:50
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Brodbelt, JenniferBrodbelt, Jennifer	am 09:50 TP 124 WP 305
Brodbelt, JenniferBrodbelt, JenniferBrodbelt, JenniferBrodbelt, JenniferBrodbelt, JenniferBrodbelt	am 09:50 TP 124 WP 305 WP 460
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Brodbelt, Jennifer	am 09:50 TP 124 WP 305 WP 460 WP 642 MP 037 MP 611
Brodbelt, Jennifer	am 09:50 TP 124 WP 305 WP 460 WP 642 MP 037 MP 611 ThP 278
Brodbelt, Jennifer	am 09:50 TP 124 WP 305 WP 460 WP 642 MP 037 MP 611 ThP 278 ThP 509
Brodbelt, Jennifer	am 09:50 TP 124 WP 305 WP 460 WP 642 MP 037 MP 611 ThP 278 ThP 509 ThP 519
Brodbelt, Jennifer	am 09:50 TP 124 WP 305 WP 460 WP 642 MP 037 MP 611 ThP 278 ThP 509 ThP 519

Brogden, Nicole	ThP 764
Bromilow, Sophie	TD 000
Brooks, Bryan	
Brooks, Gillian	ThP 270
Brooks, Jake	TOC am 09:10
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Brooks, James	
Brophy, Patrick	
Brouard, Mark	MP 350
Brouard, Mark	TP 364
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Brown, Brooke	
Brown, Christina	
Brown, Christopher	MOB am 09:30
Brown, Christopher	TOC am 09:50
Brown, Christopher	
Brown, Elizabeth	
Brown, Hannah	
Brown, Heather	
Brown, Hilary	
Brown, Jason	TP 747
Brown, Jeffery	
Brown, Jeffery	
Brown, Jeffery	ThOE pm 03:30
Brown, Jeffery	
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Brown, Kitty	ThP 278
Brown, Kitty	ThP 519
Brown, Kyle	
Brown, Kyle	INP 656
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Brown, Lewis	ThOC nm 03:10
Brown, Lewis	ThD 7/10
Brown, Luke	
Brown, Paul W	
Browne, Eleanor	IP 165
Browne, Michael	TP 151
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Brownridge, Philip	
Bruce, Alice	
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Bruce, Alice	WP 488 MP 045 MP 480
Bruce, Alice	WP 488 MP 045 MP 480
Bruce, Alice	WP 488 MP 045 MP 480 ThOD pm 04:10
Bruce, Alice	

Buchanan, Anthony	WP 065
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Buchanan, Tom	WP 334
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Buchberger, AmandaMOC	
Buchberger, Amanda	
Buchberger, Amanda Buchberger, Amanda	
Buchberger, Amanda	WP 577
Buchholz, Bruce	MP 729
Buckley, Kyle	
Budamgunta, HarshavardhanWOF	am 09:50
Budhraja, Rohit	
Budnik, Bogdan	.ThP 722
Budzinski, İlara MOA	
Budzinski, Ilara	
Bueschl, Christoph	
Bugrova, AnnaBugrova, Anna	
Bugrova, Anna	ThD 614
Bugrova, Anna	
Bujold, Kim	
Bukhari, TallatWOA	am 09:30
Bukowski, Michael	
Bukowski, Nick	TP 309
Bukowski, Nick	
Bulei, Cosmin	
Bulloch, Daryl	
Bulloch, Daryl	
Bunch, Josephine	
Bunch, JosephineBunch, Josephine	
Bunch, Josephine	
Bunch, JosephineTOF	nm 03:50
Bunch, Josephine	
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Buonarati, Mike	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233
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Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burell, Bryna Burger, Dominik. Burger, Dominik. Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 393
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burell, Bryna Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 393 TP 254
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik. Burger, Dominik. Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip. Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 393 TP 254 pm 03:50
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burke, TOA	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Moa	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 532
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burlejh, Robert	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 233 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 532 MP 532 MP 532 MP 535
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Moghan Burke, Meghan	WP 240 WP 565 MP 684 MP 302 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 545 MP 545 MP 545 MP 350
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik. Burger, Dominik. Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip. Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burla, Bo Burlagh, Robert Burleigh, Robert Burlet-Schiltz, Odile	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 495 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 532 MP 545 MP 545 MP 545 MP 545 MP 545 MP 350 MP 350 MP 350 MP 350 MP 350
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas TOA Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie	WP 240 WP 565 MP 684 MP 684 MP 550 WP 552 WP 361 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 532 MP 350 MP 364 MP 364 TP 364 TP 364 TP 364 TP 364 TP 364
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burns.	WP 240 WP 565 MP 684 MP 302 ThP 234 WP 550 WP 552 WP 361 TP 233 MP 370 MP 393 TP 254 pm 03:50 pm 04:10 MP 532 MP 545 MP 350 TP 364 TP 364 TP 364 TP 364
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burns, Mestin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 2495TP 233TP 254 pm 03:50 pm 04:10 pm 04:10 pm 9532MP 350TP 364TP 364TP 364TP 364TP 687TP 009
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burlai, Bo Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 532MP 350TP 364TP 364TP 364TP 364TP 364
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burka, Bo Burlai, Bo Burlai, Bo Burlai, Bo Burlai, Robert Burlet-Schiltz, Odile Burnham, Katie Burnn, Laura Burnum-Johnson, Kristin Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 302MP 550WP 550WP 552WP 361TP 495TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 545MP 545MP 350TP 364TP 364TP 364TP 364TP 367TP 009MP 077TP 401
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Meghan Burke, Mobert Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burns, Laura Burnum-Johnson, Kristin Burnum-Johnson, Kristin Burnum-Johnson, Kristin Burnum-Johnson, Kristin Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 684MP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 350TP 364TP 401
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 532MP 350TP 364TP 364TP 364TP 364TP 364TP 364TP 364TP 364TP 367ThP 257ThP 257TP 401ThP 247 pm 03:30MP 055
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Robert Burleigh, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnam, Katie Burnum-Johnson, Kristin Burnum-Johnson, Kristin Burnum-Johnson, Kristin E Burnet, Benjamin Burris, Benjamin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233TP 233TP 254 pm 03:50 pm 04:10 pm 04:10 pm 0552MP 350TP 364TP 364TP 364TP 364TP 364TP 364TP 367ThP 009MP 077ThP 257TP 401ThP 247 pm 03:30MP 0555WP 545
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burlai, Bo Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin Burnis, Benjamin Burt, Michael	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 364TP 324TP 325MP 535MP 535MP 535
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Mobert Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burlet-Schiltz, Odile Burnham, Katie Burnm-Johnson, Kristin Burnum-Johnson, Kristin Burnin, Benjamin Burt, Michael	WP 240WP 565MP 684MP 684MP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 364TP 257TP 401TP 247 pm 03:30MP 545WP 545WP 545WP 545
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Moghan Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burleigh, Robert Burleigh, Robert Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 684MP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 324TP 364TP 247 pm 03:30MP 055WP 545MP 350TP 364MP 350TP 364MP 350MP 350TP 364MP 350TP 364MP 350
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Pominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burla, Bo Burlaigh, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 364TP 687TP 247 pm 03:30MP 055WP 545MP 350TP 364TP 401
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burn, Laura Burnum-Johnson, Kristin Burnt, Benjamin Burt, Michael Burton, Lyle Burton, Lyle	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 535MP 350TP 364TP 367TP 401TP 367TP 364
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burlai, Bo Burleigh, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 302ThP 234WP 550WP 552WP 361TP 233TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 532MP 350TP 364TP 364TP 364TP 257TP 401ThP 257TP 401ThP 257TP 401ThP 257TP 401ThP 257TP 401ThP 364TP 364MP 350TP 364MP 350TP 364MP 350TP 364MP 367TP 364MP 360
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burger, Pominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Mobert Burla, Bo Burla, Bo Burla, Bo Burla, Bo Burla, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burns, Laura Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 684MP 550WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 267TP 401TP 267TP 401TP 27TP 401TP 257TP 401TP 257TP 401TP 257TP 401TP 257TP 401TP 257TP 401TP 267TP 468TP 364MP 350TP 364MP 350TP 364MP 367TP 021WP 631
Buonarati, Mike Buratti, Martin Burdette, Joanna Burdukiewicz, Michal Burger, Dominik Burger, Dominik Burger, Dominik Burgers, Peter Burgett, Anthony Burholt, Markus Buric, Filip Burke, Meghan Burke, Meghan Burke, Meghan Burke, Thomas Burla, Bo Burlai, Bo Burleigh, Robert Burleigh, Robert Burlet-Schiltz, Odile Burnham, Katie Burnum-Johnson, Kristin	WP 240WP 565MP 684MP 684MP 302ThP 234WP 550WP 552WP 361TP 233MP 370MP 393TP 254 pm 03:50 pm 04:10MP 532MP 545MP 350TP 364TP 364TP 364MP 350MP 350MP 350TP 364MP 350TP 364MP 367TP 490TP 267MP 361MP 361MP 363

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Busch, Michael	WP 584
Busch, Michelle	MP 6/1
Busch, Ulrich	TOD am 09:10
Bush, Ashley	MOE am 10:10
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Bush, Lowell	ThP 583
Busman, Mark	TP 559
Busqueta, Laura	
Bussberg, Valerie	ThP 433
Busse, Frederik	TP 689
Butcher, David	
Buthelezi, Sindisiwe	MP 602
Buthier, Pierre-Etienne	TP 454
Butler, Erin	1F 200
Butler, Karen	ThP 318
Butler, Lisa	ThP 228
Butsugan, Michio	ThD 462
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Buzatto, Adriana	
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Bykova, Natalia	MP 622
Byram, Gregory	WP 596
Byregowda, S.m	
Byrne, Gerard	MP 134
Byrne, Gerard	MD 324
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Byrne, Gerard	
Byrne, Gerard	TP 234
Byrne, Keren	MP 607
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Byrne II, Jerry	MP 161
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bylli, Nate	
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Carlson, Eric	MP 300 MP 415 MP 675 MP 675 MP 485 MP 204 MP 204 MP 105 MP 105 MP 107 MOH am 08:30 TP 058 MP 592 MP 107 MP 401 The 738 TOA pm 03:30 TP 329 WP 125 MP 630 The 287 MP 475 The 287 MP 475 The 287 MP 591 MP 757 The 261 MP 757 The 261 MP 757 TP 650 MP 511 MP 110 MP 614 The 020 TP 082

Carruthers, Nicholas Carter, Katherine		
Carter, Nathernie		MD 604
Carter, Matthew		
Carter, Melissa	. MOB	pm 03:10
Carter, Melissa		TP 106
Carter, Melissa		WP 212
Carter, Michelle		ThP 536
Carter, Spencer		
Carter Ctassy	MOE	02:20
Carter, Stacey	.vvOE	piii 02.30
Carter, Stacey		
Caruso, Joseph		
Caruso, Joseph		WP 736
Carvalho, Daniela		TP 639
Carvalho, Veronica		
Carvalho, Veronica		
Carver, Jeremy		
Carver, Jeremy		
Carver, Jeremy		MP 442
Carver, Jeremy		
Carver, Jeremy		WP 410
Carver, Joseph		VVP 041
Casablanca, Yovanni	.MOH	am 09:50
Casablanca, Yovanni		MP 752
Casablanca, Yovanni	TOF	pm 04:10
Casadonte, Rita		MP 340
Casadonte, Rita		17 3/5
Casadonte, Rita		WP 373
Casado-Rivera, Emerilis		
Casale, Amanda	. MOB	pm 04:10
Casey, Valerie		
Cassady, Carolyn		
Cassady, Carolyn		
Cassady, Carolyn		
Cassady, Carolyn		MP 288
Cassady, Carolyn		MP 578
Cassady, Carolyn		
Cassady, Carolyn J		
Cassady, Carolyn J		IIIP 3/ I
Cassat, James		IP 653
Castaldi, Paola		WP 243
Castanheira, Pedro		TP 646
Castellana, Natalie		
Castellana, Natalie		
Castellanos, Anthony		
Castellanos, Mildred		ThP 469
Castellanos-García, Laura		MP 334
Castilla, Clément		
Castillo, Gilbert		
Castillo, Juan		
Castillo, Juan Castillo, Juan		ThP 085
Castillo, Juan		ThP 085
Castillo, Juan Castillo, Juan Castillo, Marco		ThP 085 TP 442
Castillo, Juan Castillo, Juan Castillo, Marco Castoe, Todd		ThP 085 TP 442 TP 631
Castillo, Juan		ThP 085 TP 442 TP 631 WP 711
Castillo, Juan		ThP 085 TP 442 TP 631 WP 711 ThP 443
Castillo, Juan	. MOF	ThP 085 TP 442 TP 631 WP 711 ThP 443 pm 03:30
Castillo, Juan	. MOF	ThP 085 TP 442 TP 631 WP 711 ThP 443 pm 03:30
Castillo, Juan	. MOF . MOA	ThP 085 TP 442 TP 631 WP 711 ThP 443 pm 03:30 pm 03:10
Castillo, Juan	. MOF . MOA	ThP 085 TP 442 TP 631 WP 711 ThP 443 pm 03:30 pm 03:10 ThP 252 WP 496
Castillo, Juan	. MOF . MOA	ThP 085 TP 442 TP 631 WP 711 ThP 443 pm 03:30 pm 03:10 ThP 252 WP 496
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496WP 496WP 473
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473WP 273 pm 02:50
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473WP 273 pm 02:50
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 252 pm 02:50WP 617
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 431TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496WP 473MP 045WP 223 pm 02:50WP 658
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496WP 473MP 045WP 223 pm 02:50WP 617WP 085
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 617WP 617WP 058TP 316TP 592
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 617WP 617WP 058TP 316TP 316
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 617WP 617WP 058TP 316TP 316
Castillo, Juan	. MOF . MOA	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473WP 223 pm 02:50WP 617WP 058TP 316MP 508
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 473WP 473MP 045WP 223 pm 02:50WP 671WP 675TP 316MP 508TP 508ThP 508TP 508 am 09:30
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496WP 473MP 045WP 023 pm 02:50WP 617WP 085TP 508TP 508TP 508TP 508TP 508TP 508TP 508
Castillo, Juan	WOH	ThP 085TP 442TP 442TP 631WP 711ThP 433 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 223 pm 02:50WP 617WP 0516MP 592ThP 508TP 508TP 554 am 09:30
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 433 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 617WP 617WP 658TP 316MP 592ThP 508TP 554 am 09:30WP 082WP 082
Castillo, Juan	WOH	ThP 085TP 442TP 431WP 711ThP 433 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 473MP 045WP 617WP 617WP 658TP 316MP 508TP 554 am 09:30WP 082MP 645WP 645
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 473MP 045WP 233 pm 02:50WP 645TP 316MP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 316WP 092MP 645MP 093MP 1093MP 1094
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 473MP 045WP 233 pm 02:50WP 645TP 316MP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 316WP 092MP 645MP 093MP 1093MP 1094
Castillo, Juan	WOH	ThP 085TP 442TP 631WP 711ThP 443 pm 03:30 pm 03:10ThP 252WP 496WP 473MP 045WP 23 pm 02:50WP 617WP 658TP 316MP 592ThP 508TP 554 am 09:30WP 082MP 645MP 099MP 109TP 316TP 316TP 317WP 109TP 317TP 318TP 318
Castillo, Juan	WOH	ThP 085TP 442TP 442TP 631WP 711ThP 243 pm 03:30 pm 03:10ThP 252WP 496WP 473MP 045WP 223 pm 02:50WP 617WP 086Th 508Th 508Th 508Th 508Th 9 509Th 9 509
Castillo, Juan	WOH	ThP 085TP 442TP 442TP 631WP 711ThP 432 pm 03:30 pm 03:10ThP 252WP 496ThP 126WP 233 pm 02:50WP 617WP 058TP 354 am 09:30WP 085WP 617WP 099MP 108TP 314ThP 328
Castillo, Juan	WOH	ThP 085TP 442TP 431WP 731WP 731WP 332WP 496WP 496WP 423WP 223WP 223WP 617WP 658WP 658

Chackerian, Alissa	ThP 141
Chaconas, George	ThP 469
Chacón-Patiño, Martha	MP 154
Chacón-Patiño, Martha	
Chacón-Patiño, Martha	TP 148
Chadick, Trey	
Chae, Junghoon	
Chae, Junghoon	
Chaerkady, Raghothama	
Chaerkady, Raghothama	
Chagnon, Michael	MD 402
Chagovets, Vitaly	MD 501
Chai, Feng	
Chai, Mengqi	
Chai, Mengqi	
Chai, Mengqi	
Chait Brian	
Chait, Brian 7 Chait, Brian	
Chait, Brian	
Chakrabarti, Priyadarshini	
Chakrabarty, Bipasha	
Chakrabarty, Jayanta Kishor	
Chakraberty, Radhika	
Chakraborty, Asish	
Chakraborty, Asish	WP 510
Chakraborty, Sanhita	MP 615
Chakravartula, Srinivas	
Chalkley, Robert	MP 438
Chalkley, Robert	
Challacombe, Jean	ThP 519
Chalmers, Michael	
Chamberlain, Casey	
Chambers, Matthew	ΓhOA pm 03:30
Chambliss, Kevin	
Chamoli, Manish	ThP 104
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia	MP 775 WP 649
Chamot-Rooke, Julia Champagne, Cory	MP 775 WP 649 MP 747
Chamot-Rooke, Julia Champagne, Cory Chan, Bun	MP 775 WP 649 MP 747 ThP 177
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly	MP 775 WP 649 MP 747 ThP 177 WP 091
Chamot-Rooke, Julia	MP 775 MP 649 MP 747 ThP 177 WP 091 TP 439
Chamot-Rooke, Julia	
Chamot-Rooke, Julia	MP 775 WP 649 MP 747 ThP 177 WP 091 TP 439 TP 686 WP 739
Chamot-Rooke, Julia	MP 775MP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700
Chamot-Rooke, Julia	MP 775MP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594
Chamot-Rooke, Julia	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569 WOA am 10:10
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan*, Shu Qing	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569 WOA am 10:10
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chane, Deborah	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700MP 585MP 089MP 610WP 214MP 660WP 214MP 594MP 1010MP 118WP 273
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan*, Shu Qing Chane*, Shu Qing Chance, Deborah Chance, Mark	MP 775
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 514MP 569 WOA am 10:10TP 118WP 273MP 041MP 397 ChOE am 08:50
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chane, Mark Chance, Mark	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569 WOA am 10:10TP 118WP 273MP 049MP 397 ThOE am 08:50ThP 632
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Joanne Chan, Pamela Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chane, Mark Chance, Mark	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569WP 273MP 041MP 273MP 041MP 369MP 041MP 369MP 363
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chane, Mark Chance, Mark	MP 775WP 649MP 747ThP 177WP 091TP 439MP 700TP 585MP 089MP 594MP 610WP 214MP 569WP 214MP 594MP 595MP 610WP 214MP 597MP 610MP 596MP 598MP 610MP 596MP 610MP 596MP 632ThP 772TP 536
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chanee, Mark Chance, Mark Chanda, Joydeb	MP 775
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chane, Deborah Chance, Mark Chanda, Joydeb Chandar, Brinda	MP 775
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chane, Deborah Chance, Mark Chanda, Joydeb Chandler, Courtney	MP 775
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Joanne Chan, Pamela Chan, Pawly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chance, Mark Chander, Courtney Chandler, Courtney	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569WP 213MP 041MP 569WP 273MP 041MP 569MP 041TP 118WP 273MP 041TP 178MP 059MP 041TP 178MP 059MP 059MP 059MP 059MP 059MP 059MP 059
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Joanne Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chan, Wan Chane, Mark Chance, Mark Chandler, Courtney Chandler, Courtney Chandler, Courtney Chandler, Kevin	MP 775WP 649MP 747MP 091TP 439MP 700MP 700MP 585MP 089MP 594MP 610WP 214MP 610WP 214MP 594MP 610MP 594MP 610MP 594MP 610MP 594MP 610MP 594MP 641MP 595MP 089MP 0810MP 594MP 594MP 595MP 085MP 085MP 085MP 085MP 085MP 085MP 085MP 0910MP 538MP 0910MP 540 MOB am 09:10
Chamot-Rooke, Julia	MP 775WP 649MP 747MP 091TP 439P 686WP 730MP 700P 585MP 089MP 594MP 510WP 214MP 569 WOA am 10:10TP 118WP 273MP 041MP 397 ThOE am 08:50ThP 732TP 538MP 096 MOE am 09:10ThP 538MP 096 MOB am 09:10ThP 732
Chamot-Rooke, Julia	MP 775WP 649MP 747MP 091TP 439P 686WP 730MP 700P 585MP 089MP 594MP 510WP 214MP 569 WOA am 10:10TP 118WP 273MP 041MP 397 ThOE am 08:50ThP 732TP 538MP 096 MOE am 09:10ThP 538MP 096 MOB am 09:10ThP 732MP 690
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan*, Shu Qing Chance, Deborah Chance, Mark Chander, Gourtney Chandler, Courtney Chandler, Courtney Chandler, Kevin Chandras-Rainda, Hamssika Chandu, Karthik Chang, C	MP 775WP 649MP 747MP 091TP 439P 686WP 730MP 700TP 585MP 089MP 594MP 569MP 569 WOA am 10:10TP 118WP 273MP 041MP 397 ThOE am 08:50Th 752TP 538MP 096 MOE am 09:10TP 540 MOB am 09:10Th 732WP 690TP 632
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, War Chane, Mark Chance, Mark Chance, Mark Chance, Mark Chance, Mark Chanda, Joydeb Chandar, Southers Chander, Courtney Chandler, Courtney Chandler, Courtney Chandur, Karthik Chang, C. Chang, Chance, Debty Chandur, Karthik Chanda, Chandur, Karthik Chang, C. Chang, Chao-Pei Betty	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569 WOA am 10:10TP 118WP 273MP 041MP 397 ThOE am 08:50ThP 632ThP 772TP 536TP 536TP 536TP 536TP 536TP 536TP 540 MOB am 09:10ThP 7540 MOB am 09:10ThP 540 MOB am 09:10
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Joanne Chan, Pamela Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan, Wan Chan, Wark Chance, Mark Chandar, Brinda Chandler, Courtney Chandler, Courtney Chandler, Courtney Chandler, Courtney Chandrasekaran, Hamssika Chandu, Karthik Chang, C. Chang, Chao-Pei Betty Chang, Cheng	MP 775WP 649MP 747MP 091Th 177WP 091TP 439TP 686WP 739MP 700TP 585MP 680MP 594MP 610WP 214MP 569 WOA am 10:10TP 118WP 273MP 041MP 569 WOA am 10:10TP 118WP 273MP 041TP 536ThP 632ThP 772TP 536TP 540 MOB am 09:10ThP 540 MOB am 09:10ThP 742WP 690TP 615WP 690TP 615TP 085
Chamot-Rooke, Julia	MP 775WP 649MP 747WP 091TP 439MP 770MP 700MP 585MP 089MP 594MP 610WP 214MP 569MP 610WP 214MP 561MP 610MP 594MP 610MP 594MP 610MP 594MP 610MP 594MP 641MP 595MP 084MP 596MP 085MP 085MP 085MP 085MP 085MP 085MP 085MP 085MP 096MP 538MP 096MP 540MP 540MOB am 09:10MP 540MP 690TP 618MP 690TP 618MP 690TP 618MP 362MP 362MP 362MP 362
Chamot-Rooke, Julia	MP 775
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shan-an Chan, Wan Chan, Wan Chan, Wan Chane, Deborah Chance, Mark Chander, Courtney Chandler, Courtney Chandler, Courtney Chandler, Kevin Chandrasekaran, Hamssika Chang, C Chang, Chap. Chang, Cheng Chang, Cheng Chang, Cheng Chang, Deborah. Chang, Hsin-Yuan	MP 775WP 649MP 747ThP 177WP 091TP 439MP 770TP 585MP 089MP 594MP 569WP 273MP 569 WOA am 10:10TP 118WP 2173MP 610MP 569 WOA am 10:10TP 172TP 569 MOB am 08:50ThP 632ThP 536TP 536MP 096 MOE am 09:10TP 538MP 096 MOB am 09:10TP 540 MOB am 09:10ThP 540 MOB am 09:10ThP 732WP 690TP 615TP 085MP 362MP 072ThP 204 ThOB pm 03:50
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shu Qing Chan, Wan Chan, Wan Chan*, Shu Qing Chance, Deborah Chance, Mark Chance, Mark Chance, Mark Chance, Mark Chance, Mark Chanda, Joydeb Chandar, Frinda Chandler, Courtney Chandler, Courtney Chandler, Courtney Chandler, Courtney Chandu, Karthik Chang, Cheng Chang, Cheng Chang, Cheng Chang, Cheng Chang, Cheng Chang, Hsin-Yuan	MP 775WP 649MP 747ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569 WOA am 10:10TP 118WP 273MP 040MP 397TP 536TP 540 MOB am 09:10ThP 732WP 690TP 615TP 085MP 076MP 362MP 362MP 362TP 204Th 205Th 204Th 204Th 204Th 205Th 204
Chamot-Rooke, Julia Champagne, Cory Chan, Bun Chan, Carly Chan, Joanne Chan, Joanne Chan, Joanne Chan, Marina Chan, Pamela Chan, Pauly Kit Sze Chan, Queenie Chan, Shan-an Chan, Shan-an Chan, Wan Chan, Wan Chan, Wan Chane, Deborah Chance, Mark Chander, Courtney Chandler, Courtney Chandler, Courtney Chandler, Kevin Chandrasekaran, Hamssika Chang, C Chang, Chap. Chang, Cheng Chang, Cheng Chang, Cheng Chang, Deborah. Chang, Hsin-Yuan	MP 775WP 649MP 747MP 091ThP 177WP 091TP 439TP 686WP 739MP 700TP 585MP 089MP 594MP 610WP 214MP 569WP 273MP 041MP 569WP 273MP 041MP 569WP 273MP 041MP 569MP 569MP 085MP 085ThP 632ThP 772TP 536TP 538MP 096ThP 540MOB am 09:10ThP 540MOB am 09:10ThP 754MP 090TP 615TP 085MP 096MP 090TP 085MP 072ThP 204MP 072ThP 204ThP 378MP 076ThP 378ThP 378ThP 378

Chang, Hui-Yin		MP 402
Chang, Hui-Yin		MP 40F
Chang, Hui-Yin		MP 416
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Chang, Hui-Yin		IVIP 43/
Chang, Hui-Yin		
Chang, Hui-Yin		
Chang, Lai-Chuan		TP 226
Chang, Perng-Kuang		ThP 497
Chang, Polly		WP 351
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Channaveerappa, Devika		
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Channaveerappa, Devika		VVP /2/
Chao, Alex		
Chao, Hsi-Chun		
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Chaparro, Jacqueline		
Chapman, Joel		ThP 03/
Chapman, Matthew	TOF	am 00.20
Chapman, Matthew	101	alli 09.30
Chapnick, Doug	100	pm 04:10
Charles, James		IP 274
Charles, Laurence	WOH	am 09:30
Charlton, Georgina		MP 719
Chasse, Amanda		
Chatterjee, Pratishtha		
Chaurand, Pierre	. IVIOL	ThD 249
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Chausset-Boissarie, Laëtitia		
Chavan, Sandip		
Chavent, Matthieu		TP 324
Chaves, Fabio		
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Chavez, Juan	Thon	nm 04:10
Chaze, Thibault		
Chaze, Thibault		
Chea, Emily		
Chea, Emily		ThP 642
Cheah, Chris		ThP 195
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Checco, James		
Cheema, Amrita		
Cheema, Amrita		
Chefetz, Benny		
Cheifetz, Eli		TP 463
Chelur, Anjali		WP 463
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Chemuru, Saketh		\A/D 710
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Chen, Ann		vvF 4U3
Chen, Bifan		IVIP 014
Chen, Bifan		I nP 544
Chen, Bifan		ThP 656
Chen, Bifan		TP 601
Chen, Bifan		TP 682
Chen, Bifan		
Chen, Bin		
Chen, Bingming		1 hD 569
		ThP 565
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Chen, Bingming		ThP 385TP 366TP 366WP 363ThP 086TP 383MP 686WP 557TP 117
Chen, Bingming		ThP 385TP 365TP 366WP 363ThP 086TP 383MP 686WP 557TP 117TP 681WP 668
Chen, Bingming		ThP 385TP 365TP 366WP 363ThP 086TP 383MP 686WP 557TP 117TP 681WP 668
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi	ThP 086 ThP 064WP 190MOC am 08:50MP 686TP 131
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai	ThP 086ThP 064MP 190MP 686TP 131WP 687
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei	
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Chou, Szu-Wei	
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei	ThP 086 ThP 064 WP 190 MOC am 08:56 MP 686 TP 131 WP 697 TP 466 TP 666 WP 448
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei	ThP 086 ThP 064 WP 190 MOC am 08:56 MP 686 TP 131 WP 697 TP 466 TP 666 WP 448
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei	ThP 086 ThP 064 WP 190 MOC am 08:56 MP 686 TP 131 WP 697 TP 466 TP 666 WP 448
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 442 WP 442 MP 268
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Ghe-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 TP 666 WP 442 WP 445 mita WP 268
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudan, Surbhi Chouinard, Chrisi	
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Chi-Chi Chou, Meng-Kai Chou, Szu-Wei Choudhury, Para Choudhan, Surbhi Chouinard, Chris Chow, Signy	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 TP 666 WP 442 WP 445 MP 445 MP 697 TP 066 WP 145 WP 197 WP 197 WP 268 TP 090 TP 190 WP 190 WP 190 WP 190 WP 190 WP 190
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chouhan, Surbhi. Chouinard, Christ Chow, Signy Chowdhury, Saift	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 445 WP 445 mita WP 268 TP 091 topher ThP 290 WP 052 UP 092
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chouhan, Surbhi. Chouinard, Christ Chow, Signy Chowdhury, Saift	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 TP 666 WP 442 WP 445 MP 445 MP 697 TP 066 WP 145 WP 197 WP 197 WP 268 TP 090 TP 190 WP 190 WP 190 WP 190 WP 190 WP 190
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Sro-Wei Chou, Sro-Wei Chou, Sro-Wei Chouhan, Surbhi Chouinard, Christ Chow, Signy Chowdhury, Saifi Chowdhury, Saifi Chowdhury, Saifi Chowdhury, Saifi	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 445 WP 445 mita WP 268 TP 091 topher The 290 WP 046 JI MP 046 JI MP 055
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Para Chouhan, Surbhi. Chow, Signy Chowdhury, Saifi Chowdhury, Saifi Chowdhury, Saifi Chowdhury, Saifi Chowdhury, Saifi	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 466 TP 466 WP 442 WP 442 WP 442 WP 442 WP 443 MP 697 TP 091 TO 91 TO 91 TO 91 TO 91 TO 91 TO 91 TO 95 TO 95 TO 96 T
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Para Choudhury, Saifn Chowdhury, Saifn	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 445 WP 445 mita WP 268 TP 091 topher ThP 290 JI MP 052 JI MP 053 JI TP 631 TP 631 TP 631
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Para Choudhury, Saifn Chowdhury, Saifn	ThP 086 ThP 064 WP 190 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 442 WP 445 mita WP 268 TP 091 topher ThP 296 UI MP 057 JI MP 057 JI MP 053 JI TP 663
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Para Choudhury, Saifn Chowdhury, Saifn Christer, William I Christer, William I Christensen, Ada Christensen, Kris Christianson, Ch Christianson, Ch Christianson, Kai	
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Para Choudhury, Saifn Chowdhury, Saifn Chowdhury, Saifn Chowdhury, Saifn Chowdhury, Saifn Chowdhury, Saifn Christer, William I Christer, William I Christensen, Ada Christensen, Kris Christianson, Ch Christianson, Ch Christianson, Kan Christianson, Kan Christion, Krege Christison, Krege Christison	ThP 086 ThP 064 WP 190 MP 190 MP 190 MP 697 TP 466 WP 442 WP 442 WP 442 WP 442 WP 442 WP 442 WP 443 MITERIAL WP 268 TP 091 TOPHER THP 667 JI MP 057 JI MP 05
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chouhan, Surbhi Chouhan, Surbhi Chouhany, Saift Chowdhury, Saift Christer, William Christensen, Kris Christianson, Ch Christianson, Krege Christianson, Krege Christison, Krege Christle, Jeffrey Chu, Caroline S Chu, Fanny Chu, Feixia	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 445 Mita WP 268 TP 091 topher ThP 290 WP 057 JI MP 052 JI MP 057 JI TP 631
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Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Saift Chowdhury, Saift Chowdhury, Saift Chowdhury, Saift Chister, William Christer, William Christensen, Kris Christianson, Ch Christianson, Ch Christianson, Ka Christianson, Ka Christison, Krege Chu, Caroline S Chu, Juan K.	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 442 WP 445 MITERIAL MP 268 TP 991 TOP 166 WP 046 JI MP 057 JI MP 179 JI MP 149 JI MP 179
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Saift Chowdhury, Saift Chowdhury	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Choudhury, Saift Chowdhury, Saift Chowdhury	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 442 WP 445 MITERIAL MP 268 TP 991 TOP 166 WP 046 JI MP 057 JI MP 179 JI MP 149 JI MP 179
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chora, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Chou, Szu-Wei Choudhury, Para Chouhan, Surbhi. Chouinard, Christ Chowdhury, Saift Chowdhury,	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686 TP 131 WP 697 TP 466 WP 445 MITA WP 268 TP 091 Topher ThP 290 WP 052 II MP 052 II MP 053 II TP 631 TP 732 TP 732 TP 733
Choong, Wai-Kok Chopra, Pradeep Chopra, Pradeep Chopra, Pradeep Chorev, Dror Chou, Che-Yi Chou, Chi-Chi Chou, Szu-Wei Chouhan, Surbhi. Chouhan, Surbhi. Chouhan, Surbhi. Chowdhury, Saift Christer, William Christier, William Christianson, Ch Christianson, Ch Christianson, Krege Christison, Kre	ThP 086 ThP 064 WP 190 MOC am 08:50 MP 686

Chu, Phillip	MOD nm 02:30
Chu, Phillip	TD 505
Chu, Phillip	TP 599
Chu, Phillip	W/P 041
Ola, Frining	VI 071
Chu, Rosalie	MP 467
Chu, Rosalie	hOG am 08:50
Chu, Rosalie	
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Chuang, Hsiao-Li	ThOP pm 02:50
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Chumala, Paulos	ThP 120
Chumala, Paulos	
Chun, Eunyoung	WP 630
Chung, Bong Chul	WP 583
Chung, Chris	
Chung, Chun-wa	WP 145
Chuna. Hin Yiu	TD 204
Chung, Hin Yiu	WP 447
Chung, Hsin-Hsiang	ThP 135
Chung, Hsin-Hsiang	ThP 378
Chung, Hsin-Hsiang	ThP 522
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Chung, Hsin-Hsiang	VVP 363
Chung, Nadjali	ThP 309
Chung, Wendy	
Chupalov, Rita	MP 431
Church, Deirdre	
Church, Deirdre	
Church, Deirdre	TP 657
Church, Deirdre	VVP 091
Churchill, Gary	MOF pm 02:50
Churchill, Michael	
Churley, Melissa	TP 187
Churley, Melissa	
Churley, Melissa	TP 305
Ciach, Michal	
Ciach, Michał	
Cianferani, Sarah	WP 481
Cianférani, Sarah	
Ciborowski, Pawel	MP 571
Ciborowski, Pawel	W/D 737
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Cicatiello, Paola	MOH pm 02:50
	MOH pm 02:50
Cichelli, Julie	MOH pm 02:50 TP 257
Cichelli, Julie Cifuentes Girard, Maria Fernand	MOH pm 02:50 TP 257 aWP 571
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50 TP 257 aWP 571 TP 684
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50 TP 257 aWP 571 TP 684
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo	MOH pm 02:50 TP 257 laWP 571 TP 684 WP 234
Cichelli, Julie	MOH pm 02:50 TP 257 aWP 571 TP 684 WP 234 WP 003
Cichelli, Julie	MOH pm 02:50
Cichelli, Julie	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack	MOH pm 02:50 TP 257 aWP 571 TP 684 WP 234 WP 003 TP 137
Cichelli, Julie	MOH pm 02:50 TP 257 aWP 571 WP 234 WP 003 TP 137 WP 113 ThP 216
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack	MOH pm 02:50 TP 257 aWP 571 WP 234 WP 003 TP 137 WP 113 ThP 216
Cichelli, Julie	MOH pm 02:50 TP 257 aWP 571 WP 684 WP 003 TP 137 WP 113 WP 113 Th 216 TP 655
Cichelli, Julie	MOH pm 02:50 TP 257 IaWP 571 TP 684 WP 033 WP 013 TP 137 WP 113 Th 216 TP 655 TP 745
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptaiaya, Christopher	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptaiaya, Christopher	MOH pm 02:50
Cichelli, Julie	MOH pm 02:50
Cichelli, Julie	MOH pm 02:50 TP 257 aWP 571 TP 684 WP 234 WP 003 TP 137 WP 113 ThP 216 TP 655 TP 745 ThP 763 WP 757 ThP 496
Cichelli, Julie	MOH pm 02:50
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Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel	MOH pm 02:50
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Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Cidkach, Maria Fernand	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claes, Katrien	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claesen, Jürgen	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claes, Katrien Claesen, Jürgen. Clair, Geremy Clap, Benjamin.	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claes, Katrien Claesen, Jürgen. Clair, Geremy Clap, Benjamin.	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claes, Katrien Claesen, Jürgen Clair, Geremy Clark, C. Randall	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claesen, Jürgen Clair, Geremy Clark, C. Randall Clark, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claereboudt, Jan Claes, Katrien Claesen, Jürgen Clair, Geremy Clark, C. Randall	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Claesen, Jürgen Clair, Geremy Clapp, Benjamin Clark, C. Randall Clark, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirt, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Clark, C Randall Clark, David Clark, David Clark, Matthew	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claes, Katrien Claes, Katrien Claes, Geremy Clark, C. Randall Clark, David Clark, David Clark, David Clark, Matthew Clarke, Bradley	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claesen, Jürgen Claes, Katrien Claesen, Jürgen Clair, Geremy Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera. Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claes, Katrien Claes, Katrien Claes, Geremy Clark, C. Randall Clark, David Clark, David Clark, David Clark, Matthew Clarke, Bradley	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F Cipollo, John F Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claesen, Jürgen Clair, Geremy Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirt, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Claes, Katrien Claer, Careny Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirt, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Claes, Katrien Claer, Careny Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirt, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Claes, Katrien Claer, Geremy Claph, Benjamin Clark, C. Randall Clark, David Clark, David Clarke, Bradley Clarke, Bradley Clarke, David Clarke, James Clases, David Clasquin, Michelle	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claesen, Jürgen Claes, Katrien Claesen, Jürgen Clark, Geremy Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David Clarke, Emmanuelle	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Cirt, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claereboudt, Jan Claes, Katrien Claes, Katrien Claer, Geremy Claph, Benjamin Clark, C. Randall Clark, David Clark, David Clarke, Bradley Clarke, Bradley Clarke, David Clarke, James Clases, David Clasquin, Michelle	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank Cimino, Matteo Cintron-Diaz, Yarixa Ciota, Alexander Cipolla, Jack Cipollo, John F. Cipollo, John F. Cipriani, Ciera Ciptadjaya, Christopher Ciptadjaya, Christopher Cirit, Murat Cizmas, Leslie Claassen, Anika Claborne, Daniel Claborne, Daniel Claesen, Jürgen Clair, Geremy Clark, Geremy Clark, C. Randall Clark, David Clark, David Clark, Matthew Clarke, Bradley Clarke, David Clases, David Clase, Emmanuelle Claude, Emmanuelle	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50
Cichelli, Julie Cifuentes Girard, Maria Fernand Cikach, Frank	MOH pm 02:50

Clauser, Karl	ThP 738
Clauwaert, Jim	
Claverol, StéphaneMOH	
Clayerol, StéphaneClaydon, Amy	IP 735 ThD 005
Cleary, Sean	ThP 636
Clegg, Robert	ThP 765
Cleland, Jeff	ThP 150
Cleland, TimothyMOH	
Clemens, Sara	
Clement, Cristina	
Clement, Fiona	
Clement, Kavya ThOG	pm 04:10
Clement, Kavya	ThP 041
Clements, Derek	ThP 470
Clements, Derek	VVP /31
Clemmer, DavidWOB	
Clemmer, DavidThOE	am 09:10
Clemmer, DavidThOF	pm 02:50
Clemmer, David	
Clemmer, DavidTOC	
Clemmer, David WOH Clemmer, David	WP 450
Clench, Malcolm	
Clench, Malcolm	
Clench, Malcolm	
Clerens, Stefan	
Clerens, Stefan	
Cleveland, John	
Clifford, BobMOA	
Clift, Cassandra	
Clift, CassandraWOB	
Cline, Jayden	MP 549
Cline, Jayden	WP 593
Clore, G. MariusTOD Clowers, BrianMOF	
Clowers, Brian	
Clowers, Brian	
Clowers, Brian	ThP 303
Clowers, Brian	
Clowers, Brian	ThP 311
Cobb, Jennifer	TP 685
Cobbaert, Christa	TP 061
Cobbaert, Christa	TP 660
Cocco, Alexandra	
Cochran, Kristin	
Coder, Pragati	IP 084 am 00:50
Codreanu, Simona	
Cody, Robert	MP 447
Cody, Robert	MP 639
Cody, Robert	
Cody, Robert	
Coe, KevinCoelho, Margarida	
Coen, Muireann	
Coffey, Andrew	
Coggan, Timothy	
Cogliandro, Francesca	
Cohen, Aharon	
Cohen, Robert	
Cohen, Taylor	
Cohen, TaylorWOF	
Cohn, Whitaker	
Cohn, Whitaker	
Cojocariu, Cristian	
Cojocariu, Cristian	
Cojocariu, Cristian	IP 311
Colas, Olivier	WP 324
Colas, Olivier Colasante, Claudia	WP 324 WP 481 ThP 239
Colas, Olivier	WP 324 WP 481 ThP 239 ThP 487
Colas, Olivier Colasante, Claudia	WP 324 WP 481 ThP 239 ThP 487 TP 495

Cole, Callie	MP 254
Cole, Callie	
Cole, Callie	
Cole, Daniel	MP 459
Cole, Jacqueline	ThP 260
Cole, Jason	TP 310
Cole, Jason	WP 312
Cole, Jason	
Cole, Laura	MP 210
Cole, Laura	
Cole, Laura	ThP 160
Cole, Laura	TD 3/10
Cole, Richard	MP 266
Cole, Robert	
Cole, Robert	
Cole, Robert	. I nOH am 09:50
Cole, Robert	ThD 617
Coleman, Stephen	IOD pm 04:10
Coleman-Derr, Devin	MP 624
Colgrave, Michelle	MP 607
Colgrave, Michelle	ThP 720
Colgrave, Michelle	TOE pm 04:10
Colin, Fabrice	MP 493
Colleary, Caitlin	
Collet, Pierre	MP 376
Collet, Pierre	\A/D 474
Collett, Cayla	TP 376
Collette, Timothy	ThD 500
Collette, Timothy	TP 164
Collette, Timothy	
Collecte, filliotity	
Collier, Thomas	TOA am 08:30
Collingwood, Joanna	TOC am 09:10
Collins, Ben	
Collins, Ben	TOA pm 02:30
Collins, Ben	WOLL pm 02:20
Collins, Dell	. WOH pili 02.30
Collins, Lynn	ThP 130
Collins, Matthew	
Collins, Matthew	WOH pili 03.30
Collins, Matthew	TP 032
Colllier, Bradley	WOD am 10:10
Collop, Paul	TP 640
Cologna Stenhanie	
Cologna, Stephanie	MP 530
Cologna, StephanieCologna, Stephanie	MP 530
Cologna, Stephanie	MP 530 TP 039
Cologna, StephanieCologna, Stephanie	MP 530 TP 039 WP 519
Cologna, Stephanie	MP 530 TP 039 WP 519 TP 652
Cologna, Stephanie	MP 530 TP 039 WP 519 TP 652
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria	MP 530 TP 039 WP 519 TP 652 ThP 735
Cologna, Stephanie	MP 530 TP 039 WP 519 TP 652 ThP 735 ThP 126
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria	MP 530 TP 039 WP 519 TP 652 ThP 735 ThP 126
Cologna, Stephanie Colomba, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel	MP 530 TP 039 TP 519 ThP 735 ThP 126 ThP 126 TP 499
Cologna, Stephanie Colomba, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser	MP 530 TP 039 TP 519 ThP 735 ThP 126 ThP 126 TP 499
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler	MP 530
Cologna, Stephanie	MP 530 TP 039 WP 519 TP 652 ThP 735 ThP 126 MOG pm 02:30 TP 499 TP 763
Cologna, Stephanie	MP 530
Cologna, Stephanie	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Cotton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258MP 060
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Cotton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258MP 060MP 690
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combo, Polin	MP 530TP 039WP 519TP 652ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258MP 060MP 690MOD pm 02:30MP 024
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Compton, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Compton, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Compton, Philip Compton, Philip Compton, Philip Compton, Philip	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 555ThP 408TP 153WP 258MP 060MP 690MOD pm 02:30MP 690MOD pm 02:30MP 780TP 1001
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Compton, Philip Compton, Philip Compton, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Cotton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Cotton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530TP 039WP 519TP 652ThP 735ThP 126MOG pm 02:30TP 499TP 763WP 595ThP 408TP 153WP 258MP 060MP 090MOD pm 02:30MP 090MP 780TP 001TP 401TP 762TP 762TP 763TP 763TP 7722TP 725TP 725TP 725TP 725TP 725TP 725TP 725
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Cotton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria. Colombo, Maria. Colombo, Tatiana Colquhoun, Fraser. Colson, Emmanuel. Colson, Tyler. Colton, Carol. Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate Comstock, Kate Comstock, Kate Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate Comstock, Kate Comstock, Kate Comstock, Kate Comstock, Kate Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria. Colombo, Maria. Colombo, Tatiana Colquhoun, Fraser. Colson, Emmanuel. Colson, Tyler. Colton, Carol. Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate Comstock, Kate Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombe, Vincent Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Compton, Compton, Philip Compton, Compto	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip Compton	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip Compton	MP 530
Cologna, Stephanie Cologna, Stephanie Colombia, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate C	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Carol Combariza, Marianny Combon, Philip Compton, Philip Comstock, Kate Comstock,	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate C	MP 530
Cologna, Stephanie Cologna, Stephanie Colombie, Vincent Colombo, Maria Colombo, Maria Colombo, Tatiana Colquhoun, Fraser Colson, Emmanuel Colson, Tyler Colton, Carol Combariza, Marianny Combariza, Marianny Combariza, Marianny Combariza, Marianny Combe, Colin Cominetti, Ornella Compton, Philip Comstock, Kate	MP 530

Conjelko, Tim	MP 139	Coradin, Mariel	ThOC pm 02:50	Cox, Juergen
Conkrite, Karina		Corbeil, Jacques		Cox, Juergen
Connacher, Mary Katherine		Corbeil, Jacques		Cox, Richard
Connelly, Katelyn	ThP 634	Corbeil, Jacques	WP 217	Coy, Stephen
Conner, Peter	WP 072	Corcovilos, Theodore		Coyaud, Etienne
Connolly, Brian		Corcovilos, Theodore		Cragg, Mark
Connolly, Paul		Corcovilos, Theodore		Cragnolini, Tristar
Connors, Rose		Corcovilos, Theodore		Craig, Jeff
Conrads, Kelly		Corcovilos, Theodore		Craine, Ellenore
Conrads, Kelly		Cordova, Katherine		Craine, Ellenore
Conrads, ThomasConrads, Thomas		Cordova, Katherine		Cramer, Hugh Cramer, Patrick
Conrads, Thomas		Corea, Rozalie Corilo, Yuri		Cramer, Rainer
Consortium, the ProteoCardis		Corilo, Yuri		Crane, Marie
Contaifer Jr., Daniel		Corilo, Yuri		Crane, Marie
Contractor, Anis		Corilo, Yuri		Crathern, Susan
Contrepois, Kevin		Corley, Scott		Crathern, Susan
Contrepois, Kevin		Cornell, Kenneth	WP 785	Craven, Caley
Contrepois, Kevin	TP 426	Cornell, Richard	TOG am 09:50	Craven, Randy
Contrepois, Kevin	WP 086	Cornett, Shannon	ThP 231	Crawford, Matthew
Conway, Louis		Cornett, Shannon	ThP 245	Crawford, Matthey
Cook, Ken		Cornett, Shannon		Crawford, Tiffany .
Cook, Ken		Cornett, Shannon		Creaser, Colin
Cook, Ken		Cornett, Shannon		Creech, Amanda
Cook, Kevin	•	Cornett, Shannon		Creedon, Helen
Cook, Lauren		Cornett, Shannon		Creery, Joseph
Cook, Silas		Cornil, Jérôme		Creery, Joseph
Cook Botelho, Julianne Cooks, Graham		Cornil, Jérôme Cornwell, Owen		Creger, Stephen Creissen, Alain
Cooks, Graham		Coroa, Manuel		Crellin, John
Cooks, Graham		Correa Rivas, Maria		Crellin, John
Cooks, Graham		Correia, Goncalo		Crenshaw, Michael
Cooks, R. Graham		Correia, Mario		Crepeau, Ronnie
Cooks, R. Graham		Correll, Vanessa		Crescenzi, Carlo
Cooks, R. Graham		Corthals, Garry		Crescenzi, Carlo
Cooks, R. Graham	MP 517	Corthals, Garry	TP 114	Crescenzi, Carlo
Cooks, R. Graham		Corthals, Garry		Cressey, Lauren
Cooks, R. Graham		Cory, Alexandra		Cressman, Erik
Cooks, R. Graham		Cory, Wendy		Cressman, Erik
Cooks, R. Graham		Corzett, Todd		Criales, María
Cooks, R. Graham		Costa, Carolina		Crichton, Edward.
Coomes, Alexandra		Costa, Carolina		Crimmins, Bernar
Coon, Joshua		Costantino Robin		Criscuolo, Angela
Coon, Joshua		Costantino, Robin Costello, Catherine		Criscuolo, Angela Crittenden, Christ
Coon, Joshua	· ·	Costello, Catherine		Crittenden, Christ
Coon, Joshua		Costello, Catherine		Crizer, David
Coon, Joshua		Costello, Catherine		Crizer, Katelyn
Coon, Joshua		Costello, Catherine		Crocker, Daniel
Coon, Joshua		Costello, Catherine		Croix, Claudette
Coon, Joshua	TOC pm 03:30	Côté, Anne-Marie	WP 698	Croley, Timothy
Coon, Joshua	TP 492	Cotham, Victoria	TP 611	Crone, Catharina
Coon, Joshua	TP 572	Cotton, Joanne	MP 641	Crone, Catharina
Coon, Joshua		Couch, Melaine		Cropek, Donald
Coon, Joshua		Coughlin, Richard		Cropley, Tyler
Cooper, Ben		Cougnaud, Lise		Cropley, Tyler
Cooper, Brian		Coukos, George		Cropley, Tyler
Cooper, Hans		Coulier, Leon		Cross, Justin
Cooper, Hans		Courcelles, Mathieu		Cross, Neil Cross, Tzu-Wen
Cooper, Helen Cooper, Helen		Courouble, Valentine Couzijn, Erik		Cross, 12u-wen
Cooper, Helen		Covert, Kyle		Crouse, Jeff
Cooper, Helen		Covert, Kyle		Crowley, Jan
Cooper, Helen		Covert, Kyle		Cruz, Megan
Cooper, Helen		Covey, Thomas		Cryar, Adam

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Cox, Juergen	WP 49	92
Cox, Richard	TP 27	70
Coy, StephenWOF	pm 02:3	30
Coyaud, Etienne		
Cragg, Mark		
Cragnolini, Tristan	MP 04	49
Craig, Jeff Craine, Ellenore	IVIP 10	J.I
Craine, Ellenore	VVP 34	+ I
Cramer, Hugh	۷۷ P 54	22
Cramer, PatrickThOD	The 4	3U 17
Cramer, Rainer Crane, Marie	IIIF 4	11
Crane, Marie	TD 4	ວວ
Crathern, Susan	MP 0	21
Crathern, Susan		
Craven, Caley MOA	am 00.	1 T
Craven, Randy		
Crawford, Matthew		
Crawford, MatthewWOD	am 10.	10
Crawford. Tiffany	TP 52	29
Crawford, Tiffany	pm 03:	10
Creech. Amanda	TP 76	63
Creedon, Helen	MP 70	07
Creery, Joseph	ThP 40	3
Creery, Joseph		
Creger, Stephen	MP 33	38
Creissen, Alain	ThP 24	45
Crellin, John	WP 66	ŝ4
Crellin, John	WP 66	35
Crenshaw, MichaelMOB	pm 04:	10
Crepeau, Ronnie	WP 40)5
Crescenzi, Carlo	MP 59	92
Crescenzi, Carlo	TP 17	76
Crescenzi, Carlo		
Cressey, Lauren	ThP 67	77
Cressman, Erik	TP 39	97
Cressman, Erik	TP 39	99
Criales María		38
Criales, María	I nP 40	
Crichton, Edward	TP 4	55
Crichton, Edward Crimmins, Bernard	TP 45	55 13
Crichton, Edward Crimmins, Bernard Criscuolo, Angela	TP 45 TP 77 ThP 68	55 13 84
Crichton, Edward Crimmins, Bernard Criscuolo, Angela Criscuolo, Angela	TP 45TP 7ThP 68TP 0	55 13 84 14
Crichton, Edward	TP 45TP 7ThP 68TP 0TP 0	55 13 84 14 81
Crichton, Edward	TP 45TP 7ThP 65TP 0MP 55ThP 60	55 13 84 14 81
Crichton, Edward	TP 45TP 7ThP 68TP 0MP 58ThP 60 am 08:5	55 13 34 14 31 50
Crichton, Edward	TP 45TP 7ThP 68TP 0MP 58ThP 60 am 08:5	55 13 34 14 31 50
Crichton, Edward	TP 45TP 7ThP 66TP 0MP 58ThP 60 am 08:5MP 0MP 7	55 13 84 14 81 50 18
Crichton, Edward	TP 45TP 7ThP 66TP 0MP 58ThP 60 am 08:5MP 0MP 7MP 53	55 13 84 14 81 50 18 47 35
Crichton, Edward	TP 45TP 76TP 66MP 56TP 60 am 08:5MP 07MP 72MP 53MP 46	55 13 84 14 81 50 18 47 35
Crichton, Edward	TP 45TP 7'ThP 66TP 0'MP 58ThP 60 am 08:5MP 0'MP 7MP 55MP 4'TP 0'	55 13 84 14 81 95 18 47 35 10
Crichton, Edward	TP 48TP 7'ThP 68TP 0'MP 58ThP 60 am 08:9MP 0'MP 74MP 4'TP 0'MP 4'	55 13 84 14 81 50 18 47 35 10 14 36
Crichton, Edward	TP 48TP 7'ThP 68TP 0'MP 58ThP 60 am 08:9MP 0'MP 74MP 4'TP 0'MP 4'	55 13 84 14 81 50 18 47 35 10 14 36
Crichton, Edward	TP 48TP 7'ThP 68TP 0'MP 58ThP 60 am 08:9MP 0'MP 74MP 4'TP 0'MP 4'	55 13 84 14 81 50 18 47 35 10 14 36
Crichton, Edward	TP 48TP 7'ThP 68TP 0'MP 58ThP 60 am 08:9MP 0'MP 74MP 4'TP 0'MP 4'	55 13 84 14 81 50 18 47 35 10 14 36
Crichton, Edward	TP 48TP 7ThP 68ThP 69MP 58MP 74MP 55MP 44TP 06MP 45TP 67MP 45TP 67MP 45TP 25	55 13 84 14 16 18 10 11 16 16 78
Crichton, Edward	TP 46TP 7'ThP 68ThP 60MP 56ThP 60 am 08:6MP 0'MP 54MP 4'TP 0'MP 4'ThP 56 pm 04:ThP 3'ThP 3'	55 13 34 14 31 50 18 47 35 10 45 16 78
Crichton, Edward	TP 46TP 7'ThP 66MP 56MP 66 am 08:5MP 0'MP 74MP 53MP 43ThP 67MP 45ThP 3'ThP 3'TP 25TP 25TP 36	55 13 14 14 15 10 16 16 16 16 16 18 14 16 18 18
Crichton, Edward	TP 46TP 7'ThP 66MP 56MP 66 am 08:5MP 60MP 7MP 57MP 54MP 4'ThP 5- pm 04:'ThP 3'ThP 3'TP 25TP 25TP 36TP 53TP 54	55 13 14 14 15 10 16 16 16 17 18 11 16 17 18 11
Crichton, Edward Crimmins, Bernard Criscuolo, Angela Cristenden, Christopher Crittenden, Christopher Crizer, David Crocker, Daniel Crocker, Daniel Crone, Catharina Crone, Catharina Crone, Catharina Cropley, Tyler Cropley, Tyler Cross, Justin Cross, Neil Cross, Neil Cross, Tzu-Wen Croits, Criscuologia	TP 46TP 7'ThP 68ThP 60ThP 60ThP 60MP 56MP 0'MP 55MP 4'TP 0'MP 4'TP 0'MP 4'TP 2'ThP 5'ThP 5'TP 54	55 13 14 14 15 15 16 16 16 17 16 17 18 11 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Crichton, Edward	TP 46TP 7'ThP 68ThP 60ThP 60ThP 60MP 56MP 74MP 57MP 41TP 0'MP 45ThP 54 pm 04:ThP 54 pm 04:ThP 34ThP 54ThP 55ThP 56ThP 56ThP 57ThP 56TP 56TP 26TP 27TP 26TP 27TP 26TP 26TP 26TP 26TP 26TP 26TP 26TP 26TP 26TP 26	55 13 14 14 15 10 16 16 17 16 17 17 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Crichton, Edward Crimmins, Bernard Criscuolo, Angela Criscuolo, Angela Crittenden, Christopher Crizer, David Crocker, Daniel Croix, Claudette Croley, Timothy Crone, Catharina Cropek, Donald Cropley, Tyler Cropley, Tyler Cropley, Tyler Cross, Justin Cross, Neil Cross, Neil Cross, Neil Cross, Tzu-Wen Crotus, Edward Crotty, Kelly Crouse, Jeff Crotuse, Language Cross, Tzu-Wen Crotuse, Language Cross, Jeff Cross, Jeff Cross, Jeff Cross, Jeff Cross, Jeff Crosse, Jeff	TP 46TP 7'ThP 68ThP 69ThP 60MP 56MP 60MP 74MP 55MP 44TP 0'MP 45ThP 34ThP 37ThP 37TP 37TP 36TP 56TP 56TP 56TP 69TP 69TP 69TP 20TP 69TP 20TP 20	55 13 14 16 17 17 17 18 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Crichton, Edward	TP 46TP 7'ThP 68ThP 60ThP 60ThP 60MP 56MP 60MP 57MP 4'TP 0'MP 4'ThP 56ThP 56ThP 3'ThP 56TP 36TP 36TP 26TP 26TP 26TP 26TP 26TP 46TP 26TP 26TP 26TP 46TP 46	55 13 14 13 14 15 15 16 16 17 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Crichton, Edward Crimmins, Bernard Criscuolo, Angela Cristenden, Christopher Crittenden, Christopher Crizer, David Crocker, Daniel Crocker, Daniel Crone, Catharina Crone, Catharina Crone, Catharina Cropley, Tyler Cropley, Tyler Cross, Justin Cross, Neil Cross, Neil Cross, Neil Cross, Jeff Crotty, Kelly Crouse, Jeff Crouse, Jeff Crouse, Jeff Crowley, Jan Cruz, Megan Cryar, Adam Ctortcricker Crostinum Cross, Claudia Croyar, Adam Ctortecka, Claudia Ctortochoristic Angels Crotrochoristic Angels Cross, Jeff Crouse, Jeff Crouse, Jeff Crouse, Jeff Croyar, Adam Ctortecka, Claudia	TP 46TP 70ThP 68ThP 60ThP 60ThP 60MP 50MP 50MP 50MP 40TP 00MP 40TP 00MP 40TP 20ThP 30TP 30TP 30TP 30TP 30TP 40TP 40TP 40TP 40TP 40TP 40TP 40TP 40TP 40TP 72	55 134 141 319 50 147 310 148 149 148 149 148 149 148 149 148 149 148 149 149 149 149 149 149 149 149 149 149
Crichton, Edward	TP 46TP 76TP 66TP 60TP 60MP 56MP 66MP 74MP 46TP 07MP 45MP 45TP 27TP 27TP 27TP 34TP 54TP 56TP 26TP 26TP 27TP 46TP 46TP 47	55 134 14 131 131 131 131 131 131 131 131
Crichton, Edward	TP 46TP 7'ThP 68ThP 60ThP 60ThP 60MP 56MP 56MP 60MP 40TP 0'MP 45ThP 54ThP 54ThP 54ThP 54ThP 36TP 26TP 26TP 26TP 26TP 48TP 49TP 49TP 49TP 20TP 21TP 25TP 26TP 26TP 27TP 26TP 27TP 27TP 28TP 29TP 20TP 20TP 20TP 20TP 20TP 20TP 20TP 20	55 134 14 131 135 135 136 136 137 137 138 138 139 139 139 139 139 139 139 139 139 139
Crichton, Edward	TP 46TP 7'ThP 68ThP 69ThP 60MP 56MP 60MP 74MP 54MP 44TP 0'MP 45ThP 34ThP 32ThP 34ThP 35TP 34TP 36TP 26TP 46TP 46TP 47TP 37	55 134 14 130 131 131 131 131 131 131 131 131 131
Crichton, Edward	TP 46TP 7'ThP 66MP 56MP 66 am 08:6MP 0'MP 54MP 4'TP 0'MP 4'TP 3'ThP 5- pm 04:TP 3'TP 5TP 3'TP 5TP 26TP 72TP 72TP 72TP 26TP 26TP 12TP 12TP 12TP 12TP 12TP 12TP 13TP 14TP 14TP 15TP 15TP 16TP	55 134 131 130 130 130 130 130 130 130
Crichton, Edward	TP 46TP 70ThP 68ThP 60ThP 60ThP 60MP 50MP 50MP 50MP 40TP 00MP 40TP 00MP 40TP 20TP 20	55 134 141 130 130 130 130 130 130 130 130 130 13
Crichton, Edward	TP 46TP 76TP 66TP 60TP 60MP 56MP 60MP 74MP 46MP 46TP 07MP 47TP 27TP 27TP 26TP 26TP 26TP 26TP 27TP 27TP 36TP 27TP 27TP 36TP 27TP 27TP 36TP 27TP 27TP 37TP 27TP 27TP 28TP 29TP 29TP 20TP 21TP 21	55 134 131 130 130 130 130 130 130 130 130 130
Crichton, Edward	TP 46TP 7TP 68TP 60TP 60TP 60MP 56MP 67MP 57MP 41TP 07MP 45TP 27TP 27TP 27TP 34TP 54TP 54TP 56TP 26TP 27TP 27TP 27TP 27TP 27TP 28TP 29TP 29TP 20TP 20	555 133 144 143 140 140 140 140 150 160 160 160 160 160 160 160 16
Crichton, Edward	TP 46TP 7'ThP 68ThP 60ThP 60MP 56MP 56MP 60MP 40TP 0'MP 41ThP 54ThP 54ThP 54ThP 54ThP 54ThP 54ThP 56TP 26TP 26TP 26TP 26TP 27TP 27TP 28TP 29TP 48TP 49TP 20TP 20TP 20TP 20TP 21TP 20TP 21TP 21	555 1334 144 1499 1600 1700 184 194 194 195 196 196 197 197 197 197 197 197 197 197
Crichton, Edward	TP 46TP 7'ThP 66MP 56MP 66MP 67MP 54MP 44TP 0'MP 44TP 0'MP 45MP 56MP 45TP 32TP 32TP 32TP 34TP 36TP 36TP 37TP 48MP 68TP 72TP 32TP 22TP 32TP 49TP 32TP 49TP 49TP 49TP 49TP 21TP 21TP 21TP 22TP 24TP 25TP 26TP 27TP 26TP 27TP 26TP 27TP 26TP 27TP 26TP 27TP 27TP 27TP 28TP 29TP 29TP 21TP 21	555 1334 114 114 119 119 119 119 119 119 119 11
Crichton, Edward	TP 46TP 7ThP 68ThP 60ThP 60ThP 60MP 55MP 60MP 55MP 40TP 00MP 41TP 00MP 42TP 32TP 32TP 32TP 36TP 26TP 26TP 27TP 27TP 27TP 28TP 39TP 30TP 30TP 30TP 30TP 30TP 30TP 30TP 20TP 20TP 40TP 20TP 2	555 1334 1414 1319 1399 1395 1
Crichton, Edward Crimmins, Bernard Criscuolo, Angela Criscuolo, Angela Crittenden, Christopher Criztenden, Christopher Crizer, David Crocker, Daniel Crooker, Daniel Crone, Catharina Crone, Catharina Crone, Catharina Cropley, Tyler Cropley, Tyler Cross, Justin Cross, Neil Cross, Neil Cross, Jeff Crowley, Jan Cruz, Megan Cruz, Megan Cryar, Adam Ctortecka, Claudia Ctortecka, Claudia Ctortecka, Claudia Cudjoe, Erasmus Cudjoe, Erasmus Cudjoe, Erasmus Cudioe, Erasmus Cuervo-Zanattaa, Daniel Cuitteden Cudioe, Erasmus Cuervo-Zanattaa, Daniel Cuitten Cudioe, Erasmus Cuervo-Zanattaa, Daniel Cudioe, Can Cudioe, Can Cudioe, Can Cudioe, Can Cudioe, Erasmus	TP 46TP 76ThP 68ThP 60ThP 60MP 56MP 60MP 75MP 46TP 07MP 47TP 07MP 47TP 27ThP 56ThP 56TP 26TP 26TP 27TP 27TP 27TP 27TP 28TP 29TP 29TP 20TP	555 1338 1441 1473 1500 1600 1
Crichton, Edward	TP 46TP 7ThP 68ThP 60ThP 60ThP 60MP 56MP 60MP 7MP 40TP 0MP 41TP 0MP 52MP 52ThP 52ThP 52TP 54TP 20TP 20TP 20TP 20TP 20TP 20TP 20TP 20TP 20TP 40TP 20TP 20	555 133 144 147 157 167 168 178 178 178 178 178 178 178 17

..TP 028

 Covey, Thomas
 MP 464

 Covey, Thomas
 TOD am 10:10

 Covey, Thomas
 TP 487

 Covey, Thomas
 WOD am 09:10

 Covey, Thomas
 WP 238

 WP 238

Covey, Thomas......WP 437

 Covey, Tom
 WP 236

 Cowley, M
 TP 475
 Cox, David......MP 454

Cox, David......WP 236

Cox, Holly.....ThP 660

Cox, JamesTP 532

Cox, JamesWP 323

Cox, Juergen.....MP 396

Cooper, Helen.....WP 486
 Cooper, Jane
 TP 311

 Cooper-Shepherd, Dale
 ThP 285

 Cooper-Shepherd, Dale
 ThP 307
 Cooper-Shepherd, Dale.....TP 499 Cooper-Shepherd, Dale.....TP 505

 Cooper-Shepherd, Dale
 TP 508

 Cooper-Shepherd, Dale
 WP 200

 Cooper-Shepherd, Dale
 WP 493

Cooper-Shepherd, Dale.....WP 719

Cope, Alex.....TP 427

Copeland, JenniferWP 475

Coppes, Wouter.....WP 621

Coppit, GeorgeWP 097

Cui, Feifei	TP 593
Cui, He	
Cui, Jiankun	
Cui, JuliaTh0	OH am 10:10
Cui, Li	
Cui, Yusi	
Cui, Yusi	WP 643
Cui, Yusi	
Cui, Yusi	WP 656
Cui, Yuxiang	
Culberson, Austin	ThP 554
Cullen, Jennifer	
Cumming, Alister	
Cumpson, Peter	MP 469
Cumpson, PeterTO	
Cunha, Julia	MP 163
Cunha, Valnei	TP 556
Cupp-Sutton, Kellye	
Cupp-Sutton, KellyeTO	OD pm 02:50
Cupp-Sutton, Kellye	
Cupp-Sutton, Kellye	TP 733
Curl, Peter	TP 063
Currie, Cameron	
Currier, Duane	WP 235
Curtis, Matthew	
Curtis, Matthew	
Curtis, Matthew	MP 180
Curtis, Matthew	MP 320
Curtis, Matthew	WP 167
Cutak, Ben	
Cutak, Ben	TP 547
Cuthbertson, AmyTh0	OH am 08:30
O this start Area To	20 00.00
Cuthbertson, AmyTO	
Cuthbertson, Amy	TP 172
Cuthbertson, Daniel	VVF 200
Cutillas, Pedro	ThP 709
Cutillas, Víctor	MP 180
Cutler, Kyle	
Cutler, Kyle	TP 694
Cutler, Kyle	
Cutier, Nyle	
Cuyckens, Filip	
Cuyckens, Filip	MP 092
Cuyckens, Filip Cuypers, Bart	MP 092 TP 762
Cuyckens, Filip Cuypers, Bart Cvetichanin, Jelena	MP 092 TP 762 ThP 621
Cuyckens, Filip Cuypers, Bart Cvetichanin, Jelena	MP 092 TP 762 ThP 621
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302
Cuyckens, Filip	MP 092 Th 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418 DC pm 02:30
Cuyckens, Filip	MP 092 TP 762 MP 621 DE pm 02:50 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10
Cuyckens, Filip	MP 092 TP 762 MP 621 DE pm 02:50 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418 DF pm 02:30 DH pm 04:10
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 .MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575 TP 609 TP 609
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 .MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575 TP 609 TP 609
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575 TP 609 TP 428 WP 025
Cuyckens, Filip	MP 092 TP 762 TP 7621 DE pm 02:50 MP 302 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575 TP 609 TP 428 WP 025 WP 494
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo	MP 092TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494TP 198
Cuyckens, Filip	MP 092TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494TP 198
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czysewski, Dominik. Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo da Silva, Ricardo	MP 092TP 762TP 762TP 621 DE pm 02:50MP 302MP 759 DB am 09:50TP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 494
Cuyckens, Filip	MP 092 TP 762 ThP 621 DE pm 02:50 MP 759 DB am 09:50 ThP 418 DC pm 02:30 DH pm 04:10 TP 575 TP 609 TP 428 WP 025 WP 494 ThP 198 WP 410
Cuyckens, Filip	MP 092TP 762ThP 621 DE pm 02:50MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 413
Cuyckens, Filip	MP 092TP 762ThP 621 DE pm 02:50MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 413
Cuyckens, Filip	MP 092TP 762ThP 621 DE pm 02:50 .MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 413WP 430TP 126
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna	MP 092TP 762TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418TP 575TP 609TP 428WP 025WP 494ThP 198WP 410WP 410WP 430ThP 126MP 302
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna	MP 092TP 762TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418TP 575TP 609TP 428WP 025WP 494ThP 198WP 410WP 410WP 430ThP 126MP 302
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora	MP 092TP 762TP 762TP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418TP 575TP 609TP 428WP 494TP 198WP 410WP 413WP 430WP 430WP 430WP 430
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin. Czar, Martin. Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da Costa, Caitlyn Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadke, Shrikrishna	MP 092TP 762TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418 DD 4:10TP 575TP 609TP 428WP 025WP 494TP 198WP 410WP 413WP 430TP 126WP 430TP 126WP 480WP 480WP 480WP 480WP 480WP 280WP 280WP 280WP 280
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadke, Shrikrishna Dadlez, Michal	MP 092TP 762ThP 621 DE pm 02:50MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 410WP 413WP 430ThP 126WP 302WP 280WP 280WP 302
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadke, Shrikrishna Dadlez, Michal	MP 092TP 762ThP 621 DE pm 02:50MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 410WP 413WP 430ThP 126WP 302WP 280WP 280WP 302
Cuyckens, Filip	MP 092TP 762ThP 621 DE pm 02:50MP 759 DB am 09:50ThP 418 DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494ThP 198WP 410WP 413WP 430ThP 126MP 302WP 280WP 189WP 302WP 302WP 189MP 302WP 189
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahl, Jeff	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50Th 418TP 575TP 609TP 408WP 025WP 494Th 198WP 410WP 430Th 126WP 430Th 126MP 302WP 280WP 280WP 189Th 151
Cuyckens, Filip	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50Th 418TP 575TP 609TP 408WP 025WP 494Th 198WP 410WP 430Th 126WP 430Th 126MP 302WP 280WP 280WP 189Th 151
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Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadke, Shrikrishna Dadlez, Michal Dahl, Jeff	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418TP 575TP 609TP 428WP 494TP 198WP 410WP 413WP 430WP 302WP 280WP 280WP 280WP 302WP 302WP 303MP 634
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418TP 575TP 609TP 428WP 494TP 198WP 410WP 413WP 430WP 302WP 280WP 280WP 280WP 302WP 302WP 303MP 634
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da Costa, Caitlyn Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadke, Shrikrishna Dadlez, Michal Dahl, Jeff Dahls, Jeffery Dahms, Nancy	MP 092TP 762ThP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 418 DD pm 04:10TP 575TP 609TP 428WP 494TP 198WP 494WP 410WP 413WP 430THP 126WP 494WP 410WP 410
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Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahns, Nancy Dai, Lingyun Dai, Lingyun Dai, Lingyun Dai, Lipeng	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50Th 418DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 494Th P 198WP 410WP 411WP 413WP 430WP 430WP 430WP 430WP 430MP 151 DA am 08:30MP 022MP 053MP 1625TP 374
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabaja, Mohamad Dabaja, Mohamad Dabaja, Michal Dahl, Jeff Dahl, Jingting Dai, Lingyun Dai, Lipeng Dai, Shengkun	MP 092TP 762TP 762TP 762TP 621TP 930MP 302MP 759MP 759TP 418TP 575TP 609TP 428WP 494TP 198WP 410WP 413WP 430WP 430WP 430WP 430WP 430WP 430WP 430MP 106MP 302WP 280WP 280WP 280WP 280MP 302MP 624MP 302MP 624MP 053MP 624MP 053MP 624MP 053MP 625TP 374WP 350
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahns, Nancy Dai, Jingting Dai, Lingyun Dai, Lingyun Dai, Shujia	MP 092TP 762TP 762TP 762MP 302MP 759MB 302MP 759MB 418MP 759TP 418MP 759TP 418MP 494TP 575TP 609TP 428WP 494MP 494MP 494MP 410WP 413WP 410WP 410WP 410WP 410WP 410WP 410MP 302MP 302MP 302MP 209MP 624MP 053MP 624MP 053MP 022TP 374WP 350WP 350WP 350WP 350
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik. Czaplewska, Paulina Czar, Martin Czech, Hendryk Czemper, Frank D a b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahns, Nancy Dai, Jingting Dai, Lingyun Dai, Lingyun Dai, Shujia	MP 092TP 762TP 762TP 762MP 302MP 759MB 302MP 759MB 418MP 759TP 418MP 759TP 418MP 494TP 575TP 609TP 428WP 494MP 494MP 494MP 410WP 413WP 410WP 410WP 410WP 410WP 410WP 410MP 302MP 302MP 302MP 209MP 624MP 053MP 624MP 053MP 022TP 374WP 350WP 350WP 350WP 350
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Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo Dabaja, Mohamad Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahlserg, Jeffery Dahms, Nancy Dai, Jingting Dai, Lingyun Dai, Shujia Dai, Shujia Dai, Shujia Dai, Shujia Dai, Shujia Dai, Xiaoxia Dai, Yi-Feng	MP 092TP 762TP 762Th 621 DE pm 02:50MP 302MP 759 DB am 09:50Th 418DC pm 02:30 DH pm 04:10TP 575TP 609TP 428WP 025WP 494Th P 198WP 410WP 410WP 430Th 126MP 302WP 280WP 280WP 189MP 302WP 189MP 302MP 696Th P 151 DA am 08:30MP 624MP 625TP 374WP 350WP 350WP 350WP 350WP 350TP 374WP 350WP 350WP 350TP 696Th 696Th 696Th 696
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dah, Jingting Dai, Lipgyun Dai, Lipgyun Dai, Lipeng Dai, Shengkun Dai, Xiaoxia Dai, Xiaoxia Dai, Yi-Feng	MP 092TP 762TP 762TP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 413TP 575TP 609TP 428WP 494ThP 198WP 410WP 413WP 410WP 413WP 410WP 410
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dah, Jingting Dai, Lipgyun Dai, Lipgyun Dai, Lipeng Dai, Shengkun Dai, Xiaoxia Dai, Xiaoxia Dai, Yi-Feng	MP 092TP 762TP 762TP 621 DE pm 02:50MP 302MP 759 DB am 09:50ThP 413TP 575TP 609TP 428WP 494ThP 198WP 410WP 413WP 410WP 413WP 410WP 410
Cuyckens, Filip Cuypers, Bart. Cvetichanin, Jelena Cyprys, Philipp Cysewski, Dominik Czaplewska, Paulina Czar, Martin Czar, Martin Czech, Hendryk Da b, Rex D Gamage, Chamalee Da, Qi Da Costa, Caitlyn Da Costa, Caitlyn da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo da Silva, Ricardo Dabaja, Mohamad Dabaja, Mohamad Dabrowska, Katarzyna D'Addona, Debora Dadlez, Michal Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahl, Jeff Dahlserg, Jeffery Dahms, Nancy Dai, Jingting Dai, Lingyun Dai, Shujia Dai, Shujia Dai, Shujia Dai, Shujia Dai, Shujia Dai, Xiaoxia Dai, Yi-Feng	MP 092TP 762TP 762TP 762TP 621MP 302MP 759MP 759MP 759MP 759MP 759TP 418MP 410MP 302MP 303MP 624MP 053MP 053MP 054MP 350MP 379MP 105

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Dan, Yu	MP 696TP 416WP 325WP 465MOG am 10:10TP 442TP 444MP 270TP 495WP 191TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50
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Dan, Yu	MP 696TP 416TP 752WP 325WP 465MOG am 10:10TP 442TP 443TP 444MP 270TP 295WP 191TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 514ThP 130
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Dan, Yu	MP 696TP 416WP 325WP 465MOG am 10:10TP 442TP 444MP 277TP 495WP 191TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 514TOG am 09:50MP 514TOG am 99:50MP 514TOG am 99:50MP 514TOG am 99:50MP 514TOG am 99:50MP 514TOG am 99:50TP 320
Dan, Yu	MP 696TP 416TP 475WP 325WP 465MOG am 10:10TP 442TP 443TP 444MP 277TP 295WP 191TOB pm 02:30WP 165WP 264WP 531ThP 141WP 412ThP 320MP 514ThP 130MP 167MP 167MP 179MP 187MP 187
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Dan, Yu	MP 696TP 416WP 325WP 465MOG am 10:10TP 442TP 444MP 270TP 442MP 270TP 495WP 185WP 185WP 531TNP 141WP 415MP 488TOG am 09:50MP 514ThP 130MP 151TP 320MP 265MP 265WP 265MP 265TP 320WP 265MP 375
Dan, Yu	MP 696TP 416TP 476WP 325WP 465MOG am 10:10TP 442TP 443TP 444MP 270TP 495WP 181TOB pm 02:30WP 181TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 514ThP 130MP 167MP 586TP 320WP 265ThP 256TP 320WP 265ThP 265WP 375ThP 620WP 375ThP 620WP 167
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Dan, Yu	MP 696TP 416TP 752WP 325WP 465MOG am 10:10TP 442TP 443TP 444MP 277TP 295WP 191TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 514ThP 130MP 167MP 598TP 320WP 265WP 265TP 320WP 265WP 375ThP 626WP 375ThP 626WP 375ThP 626WP 167WP 173
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Dan, Yu	MP 696TP 416TP 416WP 325WP 485MOG am 10:10TP 442TP 444MP 270TP 442MP 195WP 105WP 105WP 105WP 105WP 531ThP 141WP 415WP 415WP 416WP 531ThP 141WP 417MP 514ThP 141WP 417MP 514ThP 142ThP 437MP 514ThP 147MP 486TOG am 09:50MP 514ThP 167WP 265WP 375ThP 620WP 167WP 173WP 173MP 752MP 752MP 752MOH am 09:50
Dan, Yu	MP 696TP 416TP 475WP 325WP 465MOG am 10:10TP 442TP 443TP 444MP 270TP 495WP 181TOB pm 02:30WP 181TOB pm 02:30WP 182WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 514ThP 130MP 167MP 588TP 320WP 265ThP 256MP 575WP 375ThP 620WP 173MP 754MP 754MOH am 09:50MP 754MP 755MP 755MP 752MP 752
Dan, Yu	MP 696TP 416TP 416WP 325WP 465MOG am 10:10TP 442TP 444MP 277TP 495WP 191TOB pm 02:33WP 165WP 284WP 531ThP 141WP 412ThP 30MP 514ThP 30MP 375MP 167MP 167MP 175MP 175MP 754MOH am 09:50MP 754MOH am 09:50MP 754MOH am 09:50TOF pm 04:10ThP 531
Dan, Yu	MP 696TP 416MP 325WP 485MOG am 10:10TP 442TP 443TP 444MP 277MP 191TOB pm 02:30WP 165WP 284WP 531ThP 141WP 412ThP 437MP 488TOG am 09:50MP 157MP 598TP 320MP 598TP 320WP 265MP 598TP 320WP 375MP 598TP 320WP 375MP 598TP 320WP 375MP 598TP 320WP 375MP 598TP 320WP 167WP 173MP 754MP 175MP 754MP 175MP 754MP 175MP 754MP 175MP 175MP 754MP 175MP 754MP 175MP 754MP 175MP 754MP 175MP 754MP 175MP 754

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Darville-bowleg, Lancia	WP 593
Darzi, AraWOE	nm 02:50
Daizi, AlaVVOL	piii 02.30
Das, Debiprasanna	TP 648
Dasari, SurendraMOF	nm 02:50
Dasari, Surendra	
D'Ascenzo, Luigi	ThP 603
Datar, Ajit	MP 185
Datar, Ajit	INP 1/5
Datar, Ajit	TP 161
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Datwani, Sammy	IVIP 404
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Dauly, Claire	TP 647
Dadiy, Olding	TID 001
Daurio, Natalie	
Davenport, Neil	WP 360
David, ALexandre	ThD 600
David, ALEXABIDIE	1117 000
David, Fred	WP 377
Davidson, Jay	MP 229
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Davies, christopher	TD 500
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Davies, Geoff	WP 159
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Davies, JamesWOE	am 08:30
Davies, Michael	
Davies, Michael	
Davis, CameronTOE	am 09:50
Davis, Cameron	TD 142
Davis, Clay	MP 739
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Davis Fric	1000000
Davis, Eric	
Davis, Haley	WP 585
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Davis, Haley Davis, Jamaine Davis, Jennifer Davis, Jennifer Davis, Jennifer Davis, Kevin Davis, Kylie Davis, Rachel Davis, Sara Davis, Trisha Davis, Zachary	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 192MP 208MP 044MP 030ThP 446WP 234
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 234 TP 126 TP 192 MP 208 MP 044 MP 030 ThP 446 WP 234 am 09:50
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690
Davis, Haley Davis, Jamaine Davis, Jennifer Davis, Jennifer Davis, Kevin Davis, Kevin Davis, Kylie Davis, Rachel Davis, Sara Davis, Trisha Davis, Zachary Davis, Jr., Don Davoli, Enrico. Dawdy, Andrew Dayot, Fanny	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030TP 446WP 234MP 630TP 446WP 234
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 071
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 671MP 108MP 384
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 671MP 108MP 384
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 071MP 108TP 384
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 030MP 030ThP 446WP 234 am 09:50MP 690MP 108THP 384TP 384TP 384TP 316
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 030MP 030ThP 446WP 234 am 09:50MP 690MP 108THP 384TP 384TP 384TP 316
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 044MP 030ThP 446WP 238MP 044MP 030ThP 446WP 234MP 316MP 690MP 690MP 108ThP 384TP 316ThP 742
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 108ThP 384TP 316ThP 384ThP 347
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 342TP 316TP 316TP 342ThP 342ThP 342
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 342TP 316TP 316TP 342ThP 342ThP 342
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 671MP 108TP 316TP 342ThP 342ThP 342ThP 342
Davis, Haley	WP 585TP 772MP 313MP 313MP 329TP 524TP 126TP 192MP 208MP 030MP 044WP 234 am 09:50MP 690MP 691MP 108TP 384TP 316TP 347ThP 342ThP 342ThP 347ThP 345TP 306MP 575WP 576
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 234 TP 126 TP 192 MP 208 MP 044 MP 030 MP 044 MP 030 ThP 446 WP 234 MP 690 MP 690 MP 108 ThP 316 ThP 742 ThP 347 ThP 347 ThP 342 ThP 004 MP 575 WP 576 WP 600
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 234 TP 126 TP 192 MP 208 MP 044 MP 030 MP 044 MP 030 ThP 446 WP 234 MP 690 MP 690 MP 108 ThP 316 ThP 742 ThP 347 ThP 347 ThP 342 ThP 004 MP 575 WP 576 WP 600
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 126TP 192MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 108TP 316ThP 384TP 316ThP 742ThP 347ThP 604WP 676
Davis, Haley	WP 585TP 772MP 313MP 313MP 329TP 234TP 126TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 108ThP 384ThP 384ThP 347ThP 600WP 576WP 600WP 603
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 693MP 693MP 384TP 316TP 342ThP 603WP 603WP 603WP 453
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 693MP 693MP 384TP 316TP 342ThP 603WP 603WP 603WP 453
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 108TP 316TP 342ThP 347ThP 342ThP 347ThP 342ThP 347ThP 342ThP 004MP 575WP 576WP 600WP 603WP 603WP 453WP 453
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 126 TP 192 MP 208 MP 044 MP 030 MP 030 MP 690 MP 690 MP 690 MP 108 ThP 316 ThP 316 ThP 342 ThP 342 ThP 347 ThP 342 ThP 600 WP 603 WP 653 WP 653 WP 452 WP 452 MP 217 MP 217 MP 217
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 126 TP 192 MP 208 MP 044 MP 030 MP 030 MP 690 MP 690 MP 690 MP 108 ThP 316 ThP 316 ThP 342 ThP 342 ThP 347 ThP 342 ThP 600 WP 603 WP 653 WP 653 WP 452 WP 452 MP 217 MP 217 MP 217
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 108ThP 316ThP 384ThP 342ThP 342ThP 342ThP 342ThP 346WP 576WP 576WP 600WP 603WP 453WP 453WP 453WP 462MP 217TP 674
Davis, Haley	WP 585TP 772MP 313MP 313MP 329TP 234TP 126TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 690MP 108ThP 384TP 316ThP 342ThP 347ThP 347ThP 347ThP 349WP 673WP 673WP 674WP 675WP 676WP 676WP 677WP 678WP 678WP 678WP 678WP 678WP 462MP 217TP 674TP 776TP 776
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 693MP 693MP 384TP 316TP 342ThP 674WP 603WP 453WP 462WP 217TP 674TP 264TP 264WP 729
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 693MP 693MP 384TP 316TP 342ThP 674WP 603WP 453WP 462WP 217TP 674TP 264TP 264WP 729
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 693MP 693MP 384TP 316TP 342ThP 342ThP 347ThP 342ThP 347ThP 342ThP 604WP 603WP 603WP 603WP 603WP 453WP 462MP 217TP 674TP 264TP 264WP 729THP 519
Davis, Haley	WP 585 TP 772 MP 313 MP 329 TP 126 TP 192 MP 208 MP 044 MP 030 MP 690 MP 690 MP 690 MP 108 Th 384 TP 316 Th 342 Th 347 Th 9 342 Th 9 600 WP 603 WP 650 WP 650 WP 650 WP 453 WP 453 WP 457 TP 766 WP 729 TP 776 TP 776 TP 264 WP 729 Th 519 MP 510
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 671MP 108ThP 316ThP 342ThP 342ThP 342ThP 342ThP 342ThP 604WP 603WP 6576WP 603WP 453WP 453WP 462MP 217TP 674TP 766TP 264WP 729ThP 519MP 510MP 510MP 510MP 510
Davis, Haley	WP 585TP 772MP 313MP 329TP 234TP 126TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 690MP 671MP 108ThP 316ThP 342ThP 342ThP 342ThP 342ThP 342ThP 604WP 603WP 6576WP 603WP 453WP 453WP 462MP 217TP 674TP 766TP 264WP 729ThP 519MP 510MP 510MP 510MP 510
Davis, Haley	WP 585TP 772MP 313MP 313MP 329TP 234TP 524TP 126TP 192MP 208MP 044MP 030ThP 446WP 234 am 09:50MP 671MP 108ThP 384TP 316ThP 342ThP 347ThP 347ThP 349WP 673WP 673WP 673WP 674WP 675WP 675WP 675WP 675WP 675WP 675WP 675WP 675WP 675TP 776TP 776TP 264WP 729ThP 510ThP 510ThP 563MP 510ThP 563MP 575

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De Silva, Imesha	
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de Sousa, Denise	
De Winter, Julien	
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De Winter, Julien Deal, Heather	
Dealwis, Chris	
De-Alwis, Jd	
De-Alwis, Jd	
Dearden, David	
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Deb, Debal	
Debart, Francoise	
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Debski, Janusz	
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Decker, Jens Decker, Trevor	
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Deda, Olga	
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del Mar Gómez-Ramos, Maríadel Rincon, Sonia	
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Delafiori, Jeany	
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Delanghe, Bernard	
Delanghe, Bernard	
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Delao, Jeremy	
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Delmont, Tom		MP 403
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Demarais, Nicholas		
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Denny, Christine		ThP 434
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Denslow, NancyDenton, MDenton, MDenton, M	MOG	WP 786 am 09:50 MP 485
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Denslow, Nancy	MOG	WP 786 am 09:50 MP 485 ThP 403 TP 694 WP 414 TP 339 ThP 642 WP 781 WP 781
Denslow, Nancy	MOG	WP 786 am 09:50 MP 485 ThP 403 TP 694 WP 414 TP 339 ThP 642 WP 781 MP 169 pm 03:30
Denslow, Nancy	MOG	WP 786 am 09:50MP 485ThP 403TP 694WP 414ThP 642WP 781WP 781MP 169 pm 03:30ThP 487ThP 340
Denslow, Nancy	MOG	WP 786 am 09:50MP 485ThP 403TP 694WP 414ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 159
Denslow, Nancy	MOG	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340ThP 340WP 528
Denslow, Nancy	MOG	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 159
Denslow, Nancy	MOG . TOA	WP 786 am 09:50MP 485ThP 403ThP 640WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 758
Denslow, Nancy	MOG	WP 786 am 09:50MP 485ThP 403ThP 404WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 528WP 787
Denslow, Nancy	TOD	WP 786 am 09:50 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 159WP 159WP 528WP 787ThP 424TP 534
Denslow, Nancy	TOD	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 159WP 555ThP 424 pm 03:30ThP 424 pm 03:50ThP 555
Denslow, Nancy	TOD	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781ThP 340WP 159WP 528WP 787ThP 384 pm 03:50WP 551WP 571ThP 384 pm 03:50WP 581WP 581WP 581
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 340WP 528WP 787ThP 384 pm 03:50WP 555WP 555WP 064WP 102
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 340WP 528WP 787ThP 384 pm 03:50WP 555WP 555WP 664WP 169
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 441TP 339ThP 642WP 781MP 169 pm 03:30ThP 340WP 528WP 787ThP 340WP 159WP 528WP 528WP 528WP 528WP 644ThP 384 pm 03:50WP 555WP 064MP 102ThP 487
Denslow, Nancy. Denton, M	TOA	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 159WP 787ThP 340ThP 340ThP 340WP 159WP 555WP 064ThP 384 pm 03:50ThP 424 pm 03:50ThP 457ThP 384 pm 03:50WP 555WP 064
Denslow, Nancy	TOA TOD WOG	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781ThP 340WP 159WP 585WP 787ThP 384 pm 03:50ThP 424TP 571ThP 384 pm 03:50WP 159ThP 424TP 571ThP 384 pm 03:50WP 102ThP 384 pm 03:50WP 064
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781ThP 340ThP 340ThP 359ThP 363ThP 363WP 528WP 787ThP 384WP 189WP 581WP 582WP 587ThP 384WP 581WP 581WP 582WP 583WP 581WP 583WP 664MP 102ThP 563WP 064MP 102ThP 563WP 0654MP 383WP 387ThP 384MP 389WP 389W
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 528WP 787ThP 384 pm 03:50WP 555WP 658WP 658WP 659WP 650WP 555WP 061MP 102ThP 563WP 680WP 381WP 189WP 199ThP 563WP 199ThP 563
Denslow, Nancy. Denton, M	TOD WOG ThOF TOF	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 787ThP 340WP 528WP 787ThP 340MP 102ThP 363MP 655WP 064MP 102ThP 363MP 487 pm 02:30 pm 03:10 am 09:50ThP 577MP 076 pm 04:10
Denslow, Nancy	TOA TOD WOG FhOF TOF	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781ThP 340ThP 340WP 159WP 585WP 585WP 585WP 644TP 571ThP 384 pm 03:50ThP 424TP 571ThP 384 pm 03:50ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 563WP 064ThP 563WP 064MP 102ThP 557MP 076 pm 04:10MP 411
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 340WP 528WP 787ThP 340WP 159WP 528WP 588WP 587ThP 384 pm 03:50WP 567ThP 384 pm 03:50ThP 563WP 647ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 567MP 076 pm 04:10MP 417MP 418
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 159WP 528WP 528WP 581ThP 384TP 571ThP 384TP 571ThP 384TP 571ThP 384TP 571ThP 384
Denslow, Nancy	TOA	WP 786 am 09:50MP 485ThP 403ThP 642WP 414TP 339ThP 642WP 159WP 528WP 781ThP 384 pm 03:50WP 555WP 555WP 655WP 660ThP 563WP 487 pm 03:50ThP 563WP 401
Denslow, Nancy Denton, M	TOD	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781MP 169 pm 03:30ThP 487ThP 340WP 781ThP 340WP 528WP 787ThP 340MP 528WP 528WP 644 pm 03:50WP 555WP 064MP 102ThP 363WP 487 pm 02:30 pm 03:10 am 09:50ThP 567MP 477MP 478MP 438MP 439WP 400WP 400WP 400WP 400WP 400WP 400WP 400WP 400WP 400WP 595
Denslow, Nancy	TOA TOD WOG FhOF TOF	WP 786 am 09:50MP 485MP 485MP 414TP 694WP 414TP 339ThP 642WP 159WP 159WP 159WP 159MP 168WP 555WP 064MP 102ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 563WP 487 pm 03:50 pm 03:10 am 09:50MP 487 pm 02:30 pm 03:10 am 09:50ThP 557MP 074MP 438MP 439MP 439WP 4400TP 595TP 746
Denslow, Nancy Denton, M	TOA TOD WOG FhOF TOF	WP 786 am 09:50MP 485ThP 403TP 694WP 414TP 339ThP 642WP 781ThP 340WP 159WP 57ThP 340WP 159WP 581WP 581ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 563WP 064MP 102ThP 563WP 487 pm 02:30 pm 03:10 am 09:50ThP 557MP 076 pm 04:10MP 438MP 439WP 400TP 7565WP 400TP 7565TP 7565TP 7565TP 7565TP 7565TP 7661TP 7661

DeVito, Michael	ThOH am 08:50
Dexter, Alex	
Dexter, Alex	MP 349
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Dey, Amit	MP 704
Dey, Kaushik	TP 688
Dey, Sudhansu	ThP 247
Dey, Sudhansu	
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Diaz Rubio, Maria Elena	MP 516
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Díaz-Lobo, Mireia	
Diedrich, Jolene	
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Diepenbrock, Anna	
Diering, Abigail	ThP 471
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Dietring, Abigail	ThP 471 WP 076 ThOB pm 03:10
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Diering, Abigail	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668
Diering, Abigail	ThP 471WP 076 ThOB pm 03:10MP 698MP 752MP 059 ThOA pm 02:50MP 668MP 118
Diering, Abigail	ThP 471WP 076 ThOB pm 03:10MP 698MP 059 ThOA pm 02:50MP 668MP 118MP 092
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillen, Lieve Dillon, Michael	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 618MP 118MP 092WP 606
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillen, Lieve Dillon, Michael Dillon, Shannon Dillon, Thomas	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillen, Lieve Dillen, Lieve Dillon, Michael Dillon, Thomas Dilworth, Richard	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720WP 004
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Lieve Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie	ThP 471WP 076 ThOB pm 03:10MP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720WP 004TP 446
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720WOD pm 03:30WP 004TP 446WP 616
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 618MP 118MP 092WP 606ThP 720MOD pm 03:30WP 004TP 446WP 616ThP 348
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon	ThP 471 WP 076 ThOB pm 03:10 ThP 698 MP 772 MP 059 ThOA pm 02:50 MP 668 MP 118 MP 092 WP 606 ThP 720 MOD pm 03:30 WP 004 WP 616 ThP 348 TP 446
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary. Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley. Dillen, Lieve Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie Dimartino, Joe DiMartino, Shannon Dimitriu, Cristina	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 668MP 118WP 092WP 606ThP 720MOD pm 03:30WP 004TP 446WP 616ThP 348TP 126TP 104
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillen, Lieve Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720WP 004TP 446WP 614TP 146TP 126TP 104TP 104TP 104
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 618MP 092WP 606ThP 720MOD pm 03:30WP 0616ThP 348TP 126TP 126TP 126TP 104ThP 517 WOG am 09:30
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimantino, Joe DiMartino, Joe Dimirtiu, Cristina Dimoyska Nilsson, kelly Ding, Caroline Ding, Caroline Ding, Caroline	ThP 471WP 076 ThOB pm 03:10ThP 698
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon. Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Jian	ThP 471WP 076 ThOB pm 03:10
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimoyska Nilsson, kelly Ding, Caroline Ding, Jian Ding, Jian Ding, Jian Ding, Jian Ding, Jian Diolitstopher Dietrich, Dylan Dietrich, Dylan Dietrich, D	ThP 471WP 076 ThOB pm 03:10ThP 698MP 079MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 004TP 146TP 126TP 126TP 104TP 104TP 157 WOG am 09:30MP 710 WOD pm 03:30ThP 763
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie Dimartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Jian Ding, Jian Ding, Jie Ding, Jie	ThP 471WP 076 ThOB pm 03:10ThP 698MP 079MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 004Th 446MP 616ThP 348TP 126TP 104ThP 517 WOG am 09:30MP 710 WOD pm 03:30MP 710MP 710ThP 753MP 349
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimoyska Nilsson, kelly Ding, Jian Ding, Jia Ding, Jie	ThP 471WP 076 ThOB pm 03:10ThP 698
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Ding, Jian Ding, Jia Ding, Jie Ding, Jie Ding, Jie	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 668
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Je Ding, Lang Ding, Lang Ding, Xiaojie C	ThP 471WP 076 ThOB pm 03:10
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Diillon, Michael Dillon, Michael Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Jian Ding, Jian Ding, Jie Ding, Jan Ding, Jan Ding, Jie Ding, Jang Ding, Lang Ding, Xiaojie C Ding, Xiaojie C	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 616TP 146TP 126TP 126TP 104TP 104TP 104TP 104TP 170 WO am 09:30MP 710 WOD pm 03:30MP 710 WOD pm 03:30MP 741WP 349WP 378WP 378
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dillard, Ashley Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Hua Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Lang Ding, Xiaojie C. Ding, Xiaojie C. Ding, Xiaojie C. Ding, Xiaojie C.	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 004TP 446TP 126TP 126TP 104TP 126TP 104TP 104ThP 517 WOG am 09:30MP 710 WOD pm 03:30MP 710 WOD pm 03:30MP 757MP 349WP 349WP 757MP 378TP 741TP 756
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Ding, Jia Ding, Xiaojie C. Ding, Xiaojie C. Ding, Yiaojie C. Ding, Ying.	ThP 471WP 076 ThOB pm 03:10ThP 698
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Ding, Jian Ding, Jia Ding, Jia Ding, Jie Ding, Jie Ding, Jie Ding, Lang Ding, Xiaojie C. Ding, Xiaojie C. Ding, Xiaojie C. Ding, Ying Ding, Yue-He	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 044TP 446
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dilker, Sergei Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimandja, Jean-Marie Dimantino, Joe Dimartino, Shannon. Dimitriu, Cristina Dimy, Caroline Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Lang Ding, Xiaojie C. Ding, Xiaojie C. Ding, Xiaojie C. Ding, Yue-He. Dinler Doganay, Gizem	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 992WP 606ThP 720MOD pm 03:30WP 044TP 446WP 616TP 126TP 126TP 126MP 710 WOD pm 03:30ThP 517 WOG am 09:30MP 710 WOD pm 03:30ThP 763WP 349WP 757WP 112MP 378TP 756MP 756MP 756MP 426TP 342
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Diillon, Michael Dillon, Michael Dillon, Thomas. Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Jie Ding, Xiaojie C Ding, Xiaojie C Ding, Yue-He Dinlonysiou, Dionysios	ThP 471WP 076 ThOB pm 03:10
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dijkstra, Tjeerd Dillard, Ashley Dillard, Ashley Dillon, Michael Dillon, Michael Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-marie Dimartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Caroline Ding, Hua Ding, Jie Ding, Jiaojie C Ding, Xiaojie C Ding, Xiaojie C Ding, Yiaojie C Ding, Ying Diony, Ying Dionysiou, Dionysios DiPerna, Jim	ThP 471WP 076 ThOB pm 03:10ThP 698MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 616ThP 348TP 126TP 126TP 104TP 104ThP 517 WOG am 09:30MP 710 WOD pm 03:30MP 710 WOD pm 03:30ThP 763WP 349WP 378TP 756MP 378TP 741TP 756MP 112MP 378TP 741TP 756MP 142MP 114MP 1756MP 114MP 1741TP 756MP 114MP 1741
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimandja, Jean-Marie Dimartino, Joe DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimy, Jian Ding, Jian Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Lang Ding, Xiaojie C Ding, Xiaojie C Ding, Xiaojie C Ding, Ying Ding, Yue-He Dinler Doganay, Gizem Dionysiou, Dionysios DiPerna, Jim Diplock, Matthew	ThP 471WP 076 ThOB pm 03:10ThP 698
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimandja, Jean-Marie Dimartino, Joe Dimartino, Shannon Dimitriu, Cristina Dimovska Nilsson, kelly Ding, Jian Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Xiaojie C Ding, Xiaojie C Ding, Xiaojie C Ding, Ying Ding, Yue-He Dinler Doganay, Gizem Diplock, Matthew Diplock, Matthew	ThP 471WP 076 ThOB pm 03:10ThP 698MP 772MP 059 ThOA pm 02:50MP 668MP 118MP 092WP 606ThP 720MOD pm 03:30WP 046TP 446WP 616TP 126TP 126TP 126TP 127
Diering, Abigail Dieters-Castator, Dylan Dietrich, Lars Dietz, Christopher Diffee, Gary Dijkstra, Tjeerd Dijkstra, Tjeerd Dikler, Sergei Dillard, Ashley Dillon, Michael Dillon, Shannon Dillon, Thomas Dillon, Thomas Dilworth, Richard Dimandja, Jean-Marie Dimandja, Jean-Marie Dimandja, Jean-Marie Dimartino, Joe DiMartino, Joe DiMartino, Shannon Dimitriu, Cristina Dimy, Jian Ding, Jian Ding, Jian Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Jie Ding, Lang Ding, Xiaojie C Ding, Xiaojie C Ding, Xiaojie C Ding, Ying Ding, Yue-He Dinler Doganay, Gizem Dionysiou, Dionysios DiPerna, Jim Diplock, Matthew	ThP 471WP 076 ThOB pm 03:10

D'Ippolito, Robert	TP 661
Dirice, Ercument	ThOG am 08:50
Dirico, Kenneth	
Diskin, Sharon	
Dispenzieri, Angela	100.00 IIIq do1
Distler, Ute	TD 602
District Andreas	TP 092
Dittmar, Andreas	IP 394
Dittmar, Denise	
Dittmar, Gunnar	WP 701
Dittwald, Piotr	
Diwan, Mustansir	
Diwan, Mustansir	
Dixit, Sugyan	
Dixit, Sugyan	ThP 319
Dixit, Sugyan	TP 506
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Dixon, David	
Dixon, David	MP 288
Dixon, Roger	TP 053
Dixon, Roger	TP 056
Djambazova, Katerina	MOD am 10:10
Djambazova, Katerina	MP 355
Djavani-Tabrizi, Iden	MP 269
Djimatey, Ophelia	ThP 427
Djukovic, Ana	TP 654
Do, Thanh	
Do, Thanh	
do Nascimento, Claudio	
Doan, Mary	WOA am 09:50
Dobbs, Alexandra	MP 254
Dobbs, Alexandra	
Dobi, Albert	
Doble, Philip	MP 1/10
Doble, Philip	
Doble, Philip	
Doble, Philip	IF 173
Doble, Philip	VP 540
Doble, Philip	
Dobson, Renwick	
Dockendorf, Marissa	
Dodds, Eric	1nP 083
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Dodds, Eric	WP 330
Dodds, Eric	WP 330 WP 579
Dodds, Eric Dodds, Eric Dodds, Eric	WP 330 WP 579 WP 663
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James	WP 330 WP 579 WP 663 .MOE pm 03:30
Dodds, Eric	
Dodds, Eric	WP 330 WP 579 WP 663 .MOE pm 03:30 MP 127 MP 357
Dodds, Eric	WP 330 WP 579 WP 663 .MOE pm 03:30 MP 127 MP 357
Dodds, Eric	WP 330 WP 579 WP 663 .MOE pm 03:30 MP 127 MP 357 ThP 318
Dodds, Eric	WP 330 WP 579 WP 663 MOE pm 03:30 MP 127 MP 357 ThP 318 MOC pm 03:50 WP 673
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doenges, Katrina Doerrier, Carolina	
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doenges, Katrina Doerrier, Carolina	
Dodds, Eric	
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doenges, Katrina Doerig, Christian Doerier, Carolina Dogu, Eralp	
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James. Dodds, James. Dodds, James. Dodds, James. Doenges, Katrina Doerig, Christian Doerrier, Carolina Dogu, Eralp Doi, Takefumi	WP 330 WP 6579 WP 663 MP 127 MP 357 ThP 318 MP 673 WP 559 WP 539
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doerig, Christian Doerrier, Carolina Dogu, Eralp Dojahn, Joerg Dokholyan, Nikolay	WP 330 WP 579 WP 663 MP 127 MP 357 ThP 318 WP 673 WP 559 WP 588 WP 389
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doerig, Christian Doerrier, Carolina Dogu, Eralp Doi, Takefumi Dojahn, Joerg Dokholyan, Nikolay Dokholyan, Nikolay	
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doerig, Christian Doerrier, Carolina Dogu, Eralp Doi, Takefumi Dojahn, Joerg Dokholyan, Nikolay Dokholyan, Nikolay Dolios, Georgia	WP 330 WP 579 WP 663 MOE pm 03:30 MP 127 MP 357 ThP 318 MOC pm 03:50 WP 573 WP 559 MP 372 MP 539 MP 037 ThOD pm 03:50
Dodds, Eric Dodds, Eric Dodds, Eric Dodds, James Dodds, James Dodds, James Dodds, James Doenges, Katrina Doerig, Christian Doerrier, Carolina Dogu, Eralp Doi, Takefumi Dojahn, Joerg Dokholyan, Nikolay Dolios, Georgia Dolios, Georgia	
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Dorrestein, Pieter	ThP 198ThP 529TOB pm 04:10TP 433WOA am 09:10WP 410WP 430TP 263MP 024TP 667 WOC am 09:10
Dorrestein, Pieter	ThP 198ThP 529TOB pm 04:10TP 433WOA am 09:10WP 410WP 430TP 263MP 024TP 667 WOC am 09:10TP 432TP 516
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Dutta, Krishna Dutton, Rachel Dweikat, Ismail	WP 268ThP 198MP 619ThP 304ThP 304ThP 304ThP 120WP 372ThP 715WP 352ThP 634WP 626WP 626WP 626WP 626WP 620WP 620WP 620WP 620WP 620WP 620WP 487 ipm 03:30MP 661WP 452MP 779TP 461 l am 10:10WP 222MP 524 ipm 03:10TP 350 ipm 03:30 ipm 03:30 ipm 03:30 ipm 150 ipm
Dutta, Krishna Dutton, Rachel Dweikat, Ismail	WP 268ThP 198MP 619ThP 304ThP 304ThP 304ThP 120WP 372ThP 715WP 352MP 634WP 626WP 626WP 626WP 670WP 487WP 487WP 487WP 487WP 487WP 452WP 570WP 160WP 222WP 524WP 525WP 526WP 526W
Dutta, Krishna Dutton, Rachel Dweikat, Ismail	WP 268ThP 198MP 619ThP 304ThP 304ThP 120WP 372ThP 197WP 352ThP 634MP 671WP 670WP 670WP 670WP 003MP 784MP 784MP 487MP 487MP 487MP 487MP 370MP 101WP 452MP 524MP 395TP 395TP 395TP 395TP 395
Dutta, Krishna Dutton, Rachel Dweikat, Ismail	WP 268ThP 198MP 619ThP 304ThP 304ThP 120WP 372ThP 197ThP 715WP 352ThP 634WP 626WP 570WP 626WP 570WP 003MP 784TP 495MP 487WP 487WP 452MP 330MP 061WP 222MP 570WP 103WP 250MP 570WP 450MP 330MP 1010WP 222MP 524MP 390ThP 390ThP 390ThP 390ThP 390ThP 390ThP 390ThP 110

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Ebmeier, ChristopherTC	D pm 04:10
Eckels, Josh	MP 430
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Economou, Anastassios	IVIF 204
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Eliferent Vasilin		VVF 421
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Enders, Jeffrey	TOF	MP 743TP 046TP 459MP 044MP 447MP 438MP 624TP 110WP 105TP 110WP 630Th 285 am 08:50TP 142MP 673MP 673MP 771
Enders, Jeffrey	TOF	MP 743TP 046TP 046TP 459MP 044MP 447MP 624TP 213WP 105TP 110WP 630TP 285 am 08:50TP 332TP 19MP 614MP 673MP 782TP 617MP 711THP 430
Enders, Jeffrey	TOF	MP 743TP 046TP 459MP 044MP 447MP 438MP 624TP 213WP 105TP 110WP 630TP 285 am 08:50 am 08:50TP 142MP 644MP 673MP 674MP 677MP 782TP 617MP 711MP 711
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Enders, Jeffrey	TOF	MP 743TP 046TP 459MP 044MP 417MP 438MP 624TP 213WP 105TP 110WP 630TP 185 am 08:50TP 332TP 142MP 614MP 673MP 781TP 1490TP 157MP 711TP 430TP 252TP 252TP 1747
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Enders, Jeffrey	TOF	MP 743TP 046TP 459MP 044MP 447MP 438MP 624TP 105TP 110WP 630TP 132Th 142MP 673MP 673MP 782TP 110TP 110MP 674MP 674MP 674TP 129TP 129TP 129TP 129TP 129TP 129TP 129TP 129TP 139TP 330TP 330TP 340TP 350TP 366TP 3669TP 3689TP 3689
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Enders, Jeffrey	TOF	MP 743TP 046TP 459MP 044MP 447MP 438MP 624TP 110WP 105TP 110WP 630ThP 285 am 08:50ThP 142MP 673MP 761TP 17MP 711ThP 747MP 711ThP 747MP 143
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Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn	MP 097 MP 292 WOD pm 04:10 ThP 427 WP 667 WP 130 MP 524
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Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn	MP 097 MP 292 . WOD pm 04:10 ThP 427 WP 667 WP 130 MP 524 ThP 236
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Esfandiary, Reza Eshghi, Azad Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn Eugenin, Eliseo Eugenin, Eliseo Eugenin, Anne	MP 097 MP 292 . WOD pm 04:10
Esfandiary, Reza Eshghi, Azad Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn Eugenin, Eliseo Eugenin, Eliseo Evans, Anne Evans, Anne	MP 097MP 292 . WOD pm 04:10ThP 427WP 667WP 130MP 524ThP 236ThP 242ThP 458
Esfandiary, Reza	MP 097MP 292
Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esper, Karyn Eugenin, Eliseo Eugenin, Eliseo Evans, Anne Evans, Anne Evans, Charles Evans, Philip	MP 097MP 292
Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esper, Karyn Eugenin, Eliseo Eugenin, Eliseo Evans, Anne Evans, Anne Evans, Charles Evans, Philip	MP 097MP 292
Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn Eugenin, Eliseo Eugenin, Eliseo Evans, Anne Evans, Anne Evans, Charles Evans, Philip Evans-Nguyen, Kenyon	MP 097 MP 292 WOD pm 04:10 The 427 WP 667 WP 130 MP 524 ThP 236 ThP 242 ThP 458 TP 738 MP 573 MP 226 ThP 255
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Esfandiary, Reza Eshghi, Azad. Eskenazi, Nicolas Eskenazi, Nicolas Espino, Jessica Esser, Karyn Eugenin, Eliseo Eugenin, Eliseo Evans, Anne Evans, Anne Evans, Charles Evans, Philip Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa	
Esfandiary, Reza	MP 097 MP 292 WOD pm 04:10 MP 647 WP 667 WP 130 MP 524 ThP 236 ThP 242 ThP 458 MP 573 MP 226 MP 573 MP 226 ThP 055 MP 470 TP 248
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Esfandiary, Reza	MP 097 MP 292 WOD pm 04:10 ThP 427 WP 667 WP 130 MP 524 ThP 236 ThP 242 ThP 458 MP 573 MP 573 MP 573 MP 266 ThP 055 MP 470 TP 249 TP 523
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Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:50WP 617WP 581 .TOB pm 03:30TP 300TP 300TP 300TP 474WP 001MP 306Th 004TP 032MP 511MP 527MP 540WP 415WP 456MP 580MP 580MP 580MP 580MP 580MP 580MP 580MP 596MP 596MP 596MP 596MP 597MP 597MP 598
Ferrey, Mark	WOE am 09:30
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:30WP 617WP 581 .TOB pm 03:30TP 300WP 306 ThOD pm 03:30TP 004MP 504MP 527ThP 440WP 415WP 596MP 581WP 596MP 582MP 596MP 583MP 596MP 583MP 596MP 584MP 584MP 584MP 584MP 584MP 585MP 586MP 586MP 586MP 586MP 586MP 586MP 586MP 586MP 587ThP 181WP 370
Ferrey, Mark. Ferry, John. Feuerstein, Max Feuerstein, Max Feuerstein, Max Feuillastre, Sophie Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Ficher, Ralf Fidder, Alex. Fiddyment, Sarah Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Field, Brian. Fields, Gregg Fielitz, Davor. Figard, Benjamin. Figard, Benjamin. Figeys, Daniel. Figeys, Daniel Figueroa, Dominique Figueroa, Dominique Fillip, Szymon.	WOE am 09:30MP 131 WOH pm 02:30WP 581
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:30WP 581
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:50WP 581
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:50WP 617WP 581 .TOB pm 03:30TP 300TP 300TP 474WP 051WP 306 ThOD pm 03:30ThP 004TP 332MP 511MP 551MP 552MP 580MP 753MP 970MP 370TP 524ThP 181MP 370TP 045WP 261ThP 113
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Ficner, Ralf Fidder, Alex Fiddyment, Sarah. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Field, Brian. Fields, Gregg Fielitz, Davor. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figueroa, Dominique Figueroa, Dominique Figueroa, Dominique Filip, Szymon Fillipenko, Artem Fillmore, Thomas.	WOE am 09:30MP 131 WOH pm 02:50WP 617WP 581TOB pm 03:30TP 300WP 001WP 306 ThOD pm 03:30ThP 004TP 901MP 511MP 527ThP 440WP 415WP 580MP 552MP 580MP 580MP 580MP 590MP 504TP 252MP 372ThP 181WP 370TP 264TP 181WP 370TP 265TP 181WP 370TP 261TP 181WP 370TP 261TP 181WP 370TP 261TP 181WP 370TP 181
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:50WP 617WP 581 .TOB pm 03:30TP 300WP 306TP 474WP 001WP 306Th 004TP 032MP 511MP 527ThP 440WP 415WP 596MP 553MP 596MP 504TP 252MP 504TP 252MP 504TP 252MP 370ThP 181WP 370TP 045WP 097ThP 701
Ferrey, Mark	WOE am 09:30MP 131 WOH pm 02:30WP 617WP 581 .TOB pm 03:30TP 300WP 306 ThOD pm 03:30Th 904TP 032MP 511MP 527ThP 440WP 415WP 596MP 513MP 597Th 904TP 252MP 504TP 252Th 913WP 370Th 913WP 370TP 045WP 370TP 113WP 097ThP 701WP 037
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Ficher, Ralf Fidder, Alex Fiddyment, Sarah Fiehn, Oliver Field, Brian Fields, Gregg Fielitz, Davor Figard, Benjamin Figard, Benjamin Figard, Benjamin Figeys, Daniel Figeys, Daniel Figueroa, Dominique Figueroa, Dominique Figueroa, Tomas Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fincher, Jarod Finck, Brian	WOE am 09:30MP 131 WOH pm 02:30WP 581
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Ficher, Ralf Fidder, Alex Fiddyment, Sarah. Fiehn, Oliver Field, Brian. Fields, Gregg Fielitz, Davor. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figueroa, Dominique Figueroa, Dominique Figueroa, Dominique Figueroa, Thomas Fillmore, Thomas Fillmore, Thomas Fillmore, Jarod. Finck, Brian Finck, Rachel	WOE am 09:30MP 131 WOH pm 02:50WP 581 .TOB pm 03:30TP 300TP 300TP 474WP 036Th 904TP 032MP 511MP 551MP 551MP 551MP 552Th 440WP 415WP 596MP 573MP 573MP 596MP 573MP 596MP 753MP 370TP 181WP 370TP 181WP 370TP 181WP 370TP 181WP 370TP 181WP 370TP 181WP 370TP 184WP 371Th 914WP 372Th 9468Th 968Th 968Th 968
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Ficner, Ralf Fidder, Alex Fiddyment, Sarah. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Field, Brian. Fields, Gregg Fieltz, Davor. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figueroa, Dominique Figueroa, Dominique Figueroa, Dominique Fillp, Szymon Fillpenko, Artem Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Finck, Rachel Fine, Dennis	WOE am 09:30
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Fialkov, Alexander Ficner, Ralf Fidder, Alex Fiddyment, Sarah Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Field, Brian. Fields, Gregg Fielitz, Davor. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figueroa, Dominique Figueroa, Dominique Figueroa, Dominique Fillpenko, Artem Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fincher, Jarod. Finck, Rachel Fine, Dennis Finlay, Brett.	WOE am 09:30MP 131 WOH pm 02:50WP 617WP 581 .TOB pm 03:30TP 474WP 001WP 306 ThOD pm 03:30ThP 004TP 032MP 511MP 527ThP 440WP 415WP 415WP 596MP 590MP 504TP 252MP 753MP 753MP 999MP 504TP 252MP 370ThP 181WP 097ThP 464ThP 661
Ferrey, Mark. Ferry, John. Feuerstein, Max. Feuerstein, Max. Feuillastre, Sophie Fialkov, Alexander Ficner, Ralf Fidder, Alex Fiddyment, Sarah. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Fiehn, Oliver. Field, Brian. Fields, Gregg Fieltz, Davor. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figard, Benjamin. Figueroa, Dominique Figueroa, Dominique Figueroa, Dominique Fillp, Szymon Fillpenko, Artem Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Fillmore, Thomas Finck, Rachel Fine, Dennis	WOE am 09:30MP 131 WOH pm 02:30WP 617WP 581 .TOB pm 03:30TP 300WP 306TP 474

Fisch, Sandrine	TP 588
Fischer, Caleb	
Fischer, Jesse	
Fischer, Roman	
Fischer, Steven	
Fischer, Steven	
Fisher, Caleb	WP 300
Fisher, Carolyn	MP 112
Fisher, Gary	MP 740
Fisher, Gregory	ThP 263
Fisher, Matthew	
Fisher, William	
Fisher, William	
Fisher-Wellman, Kelsey	ThOC am 00:50
Fitchett, Jonathan	MD 204
Fitzgerald, Amanda	
Fitzgerald, Michael C	
Fitzgerald, Patrick	
FitzGibbon, Molly	
Fjeldsted, John	
Fjeldsted, John	. MOF am 10:10
Fjeldsted, John	
Fjeldsted, John	
Fjeldsted, John	
Flad, Thomas	
Flament, Stéphanie	
Flanagan, Kieran	WP 468
Flannery, Connor	
Flarakos, Jimmy	TOD am 10:10
Flasch, Mira	
Flasch, Mira	
Fleischauer, Markus	
Fleischmann, Bernd	
Fleishman, Sarel	
Fleming, Ronan	
Fleming, Steven	
Flenniken, Ann	TP 758
Flenniken, AnnFlenniken, Ann	TP 758
Flenniken, Ann Flenniken, Ann Fletcher, Brenda	TP 758 TP 775 WP 752
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl	TP 758 TP 775 WP 752 WP 360
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney	TP 758 TP 775 WP 752 WP 360 ThP 760
Flenniken, Ann	TP 758TP 775WP 752WP 360ThP 760ThP 517
Flenniken, Ann	
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy	TP 758 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348
Flenniken, Ann	
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet	
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Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl. Fletcher, John. Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 742 TP 579
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, John Fletcher, Jyler Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Floyd, Adam	TP 758 TP 775 WP 752 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flower, Cameron Flower, Cameron Floyd, Adam Focant, Jean-François	
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Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl. Fletcher, Courtney. Fletcher, John. Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam. Focant, Jean-François Focant, Jean-François Fochi, Igor.	
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Floyd, Adam Focant, Jean-François Focant, Jean-François Focant, Igor Focsa, Cristian	
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Flower, Cameron Floyd, Adam Focant, Jean-François Focant, Jean-François Fochi, Igor Focas, Cristian Fogarty, Melissa	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 TP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron. Floyd, Adam Focant, Jean-François. Focant, Jean-François. Fochi, Igor Focas, Cristian Fogarty, Melissa Fogarty, Melissa	TP 758 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 742 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flower, Cameron Flower, Cameron Floyd, Adam Focant, Jean-François Focant, Melissa Fogarty, Melissa Fogarty, Melissa Fogerty, Meghan	TP 758 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Floyd, Adam Focant, Jean-François	
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Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler Fletcher, Tyler. Flick, Tawnya. Flinders, Colin. Flint, Lucy. Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Floyd, Adam Focant, Jean-François. Focant, Jean-Françoi	TP 758 TP 775 WP 752 WP 750 WP 760 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 750
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya. Flinders, Colin Flint, Lucy Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam Focant, Jean-François Focant, Jean-François Fochi, Igor Focsa, Cristian Fogarty, Melissa Fogarty, Melissa Fogerty, Meghan Fogh, Jens Fogliatti, Timothy. Foglová, Tereza	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl. Fletcher, Courtney. Fletcher, John. Fletcher, Tyler Fletcher, Tyler Flick, Tawnya. Flinders, Colin Flint, Lucy. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam. Focant, Jean-François Fogarty, Mellissa Fogarty, Mellissa Fogarty, Meghan Fogh, Jens Fogliatti, Timothy Foglová, Tereza Fogo, Agnes Fogwill, Michael	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl. Fletcher, Courtney. Fletcher, John. Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya. Flinders, Colin Flint, Lucy. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron. Floyd, Adam. Focant, Jean-François. Focant, Jean-F	
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Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Amarjeet Flora, Amarjeet Flower, Cameron Flower, Cameron Floyd, Adam Focant, Jean-François Focant, Jean-François Fochi, Igor Focas, Cristian Fogarty, Melissa Fogerty, Meghan Foglatti, Timothy Foglová, Tereza Fogo, Agnes Fogwill, Michael Fokar, mohamed Fokar, mohamed Folyer Fomsgaard, Inge Fomsgaard, Inge	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 TP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 474 WP 480 MP 464 MP 464 TP 587
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda Fletcher, Carl Fletcher, Courtney. Fletcher, John Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam Focant, Jean-François. Focant, Jean-François. Fochi, Igor Focsa, Cristian. Fogarty, Melissa Fogerty, Melissa Fogerty, Meghan Fogh, Jens Fogliatti, Timothy Foglová, Tereza Fogo, Agnes Fogwill, Michael. Fokar, mohamed Follore, Timothy Fomsgaard, Inge Fomsgaard, Inge Fomdrie, William	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 587 MP 394
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl. Fletcher, Courtney. Fletcher, John. Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya. Flinders, Colin Flint, Lucy. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam. Focant, Jean-François. Fogarty, Melissa. Fogarty, Melissa. Fogarty, Melissa. Fogerty, Meghan Fogliatti, Timothy. Fogliová, Tereza. Fogo, Agnes. Fogwill, Michael. Fokar, mohamed. Foley, Timothy. Fomsgaard, Inge Fondrie, William Fongen, Monica.	TP 758 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 742 WP 743 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 580 MP 394 ThP 506
Flenniken, Ann. Flenniken, Ann. Fletcher, Brenda. Fletcher, Carl. Fletcher, Courtney. Fletcher, John. Fletcher, Tyler. Fletcher, Tyler. Flick, Tawnya. Flinders, Colin Flint, Lucy. Flora, Amarjeet. Flora, Amarjeet. Flora, Amarjeet. Flower, Cameron Floyd, Adam. Focant, Jean-François. Focant, Jean-François. Focant, Jean-François. Focant, Melissa. Fogarty, Melissa Fogarty, Melissa Fogerty, Meghan Fogh, Jens Fogliatti, Timothy. Foglová, Tereza Fogo, Agnes. Fogwill, Michael Fokar, mohamed Foley, Timothy. Fomsgaard, Inge Fondrie, William Fongen, Monica Fonseca, Juliana.	TP 758 TP 775 WP 752 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 587 MP 394 MP 394 ThP 586
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Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Flora Flora, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Fogarty, Melissa Fogarty, Melissa Fogarty, Melissa Fogarty, Melissa Fogarty, Meghan Fogarty, Timothy Foglová, Tereza Fogo, Agnes Fogwill, Michael Fokar, mohamed Foley, Timothy Fomsgaard, Inge Fondrie, William Fongen, Monica Fonseca, Juliana Fonslow, Bryan Fontaine, Fabien	TP 758 TP 775 TP 775 WP 752 WP 360 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 TP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 WP 742 WP 743 TP 579 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 587 MP 394 ThP 596 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 506
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Mariget Flora, Mariget Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Fogarty, Melissa Fog	TP 758 TP 775 MP 752 WP 752 WP 750 ThP 760 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 587 MP 394 ThP 586 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 529 ThP 340
Flenniken, Ann Flenniken, Ann Fletcher, Brenda Fletcher, Carl Fletcher, Courtney Fletcher, John Fletcher, Tyler Fletcher, Tyler Flick, Tawnya Flinders, Colin Flint, Lucy Flora, Amarjeet Flora, Flora Flora, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Focant, Jean-François Fogarty, Melissa Fog	TP 758 TP 775 MP 752 WP 752 WP 750 ThP 760 ThP 760 ThP 517 MOB am 09:50 TP 581 MP 671 ThP 466 TP 348 MP 601 WP 742 WP 744 TP 579 WP 163 TOB pm 03:50 WOA pm 03:30 ThP 484 WOE pm 03:10 MP 205 TP 243 MP 201 WP 107 ThP 561 WP 750 TP 381 WP 474 WP 580 MP 464 ThP 587 MP 394 ThP 586 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 506 MP 781 ThP 529 ThP 340

Foo, Herbert Forbes, Thomas		IVIP 450
	MOR	nm 02:30
Forbes, Thomas	WOG	nm 03:50
Ford, Katarena		
ord, Lisa		
Ford, Megan		
Foreman, David		MP 260
oreman, David		MP 771
Foreman, David	WOG	am 08:50
Forest, Katrina		
Forger, Luisa		IVIP 204
ornace, Albert	. WOF	pm 02:30
Fornace, Albert		
Fornadel, Andrew		
ornelli, Luca		MP 024
ornelli, Luca		
Fornelli, Luca		
Fornelli, Luca		
Fornelli, Luca		
ornelli, Luca		
Fornelli, Luca		TP 635
ornelli, Luca	WOC	am 08:30
Forsman, Trevor		ThP 481
örster, Jonas		
Forsythe, Jay		
Fortin, Tanguy		
oss, Jamie		
oss, Jamie		
Foss, Jamie		
oster, Fred		
oster, Fred		
oster, Greg		
oster, Greg		
oster, Greg		17 66/
oster, Greg		
oster, Greg		WP 743
oster, Jennifer		ThP 586
oster, Leigh		MP 733
oster, Leigh		
Foster, Leonard		
oster, Matthew	I UA	piii 04.10
ostner, Shawn	HUG	pm 04:10
Fouquet, ThierryFouquet, Thierry		MP 629
Fouquet, Thierry		MP 639
ournelle, Frédéric		TP 382
ournier, Frédéric		
		IP 64 <i>1</i>
Fournier, Isabelle		TP 647 ThP 032
ournier, Isabelle		ThP 032
Fournier, Isabelle Fournier, Isabelle	 .WOE	ThP 032 pm 03:10
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle	.WOE	ThP 032 pm 03:10 WP 365
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen		ThP 032 pm 03:10 WP 365 am 09:50
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowle-Grider, Ronald	.WOE	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512
Fournier, Isabelle	.WOE	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480
Fournier, Isabelle	.WOE	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Erica Fox, Howard	.WOE .MOD .MOF	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Erica Fox, Howard	.WOE .MOD .MOF	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowle, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Fica Fox, Howard	.WOE .MOD .MOF	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737
Fournier, Isabelle	.MOD	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737
Fournier, Isabelle	.MOD	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737 WP 353
Fournier, Isabelle	.MOD	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737 WP 353 ThP 648
Fournier, Isabelle	. MOF	ThP 032 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 WP 737 WP 353 ThP 648 WP 234 pm 03:10
Fournier, Isabelle	. MOF	ThP 032:10 pm 03:10WP 365 am 09:50ThP 512ThP 512ThP 480 pm 03:10WP 737WP 737WP 355ThP 646WP 234 pm 03:10MP 2310WP 234 pm 03:10MP 210WP 240 pm 03:10MP 210
Fournier, Isabelle Fournier, Isabelle Fowhle, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Frica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Francese, Simona Francese, Simona Fournier, Isabelle Fournier, Isabelle Francese, Simona Francese Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowler, Isabelle	. MOF	ThP 032:10 pm 03:10 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737 WP 353 ThP 646 WP 234 pm 03:10 MP 216 MP 703:10 MP 703
Fournier, Isabelle Fournier, Isabelle Fowhle, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Erica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Francese, Simona Francese, Simona Fournier, Isabelle Fournier, Isabelle Francese, Simona Francese Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowler, Isabelle	. MOF	ThP 032:10 pm 03:10 pm 03:10 WP 365 am 09:50 ThP 512 ThP 480 pm 03:10 MP 571 WP 737 WP 353 ThP 646 WP 234 pm 03:10 MP 216 MP 703:10 MP 703
Fournier, Isabelle Fournier, Isabelle Fowhle, Kristen Fowle-Grider, Ronald Fox, Bennett Fox, Erica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Francese, Simona Francese, Simona France, Selosia Francese, Eloisa Fournier, Isabelle Fox Howard Francese, Simona Francese, Eloisa Frances Francese, Eloisa	. MOD	ThP 032 pm 03:16WP 365 am 09:56ThP 512ThP 512ThP 480 pm 03:16 pm 03:16WP 373WP 375WP 375WP 335ThP 648WP 234 pm 03:16MP 210MP 210MP 210MP 210MP 210MP 210
Fournier, Isabelle	. MOF	ThP 032 pm 03:16 pm 03:16WP 365 am 09:50ThP 512ThP 480 pm 03:16WP 573WP 365WP 365
Fournier, Isabelle	. MOF	ThP 032 pm 03:10 pm 03:10 WP 365 am 09:50 ThP 543 MP 571 WP 737 WP 353 WP 353 WP 234 pm 03:10 MP 210 MP 210 MP 147 ThP 148
Fournier, Isabelle	. MOF	ThP 032 pm 03:10 pm 03:11WP 365 am 09:50ThP 512ThP 486 pm 03:10MP 571WP 737WP 353ThP 648WP 236 pm 03:10MP 703ThP 147ThP 408ThP 147ThP 556ThP 556ThP 556ThP 556
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Fica Fox, Howard Fox, Howard Franceschini, Barbara Franceschini, Barbara Francese, Simona Francese, Simona Franco, Eloisa Franco Herrera, Andres Franch, David Frank, Matthias	. MOF	ThP 032 pm 03:10WP 365 am 09:50ThP 512ThP 5480 pm 03:10WP 573WP 353WP 353WP 234 pm 03:10MP 214WP 350MP 214MP 215MP 216MP 217MP 217
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Erica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Franceschini, Livia Francese, Simona Francese, Simona Franceschini, Eribia Francovic-Fontaine, Élina Frank, Matthias Frank, Max	. MOF	ThP 032 pm 03:10WP 365 am 09:50ThP 512ThP 480 pm 03:10WP 373WP 375WP 375WP 375WP 375MP 203MP 210MP 210MP 210MP 210MP 305ThP 440ThP 430ThP 456ThP 456MP 156 20MP 156 20MP 156 20MP 162ThP 656MP 112ThP 662MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Erica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Franceschini, Livia Francese, Simona Francese, Simona Franceschini, Eribia Francovic-Fontaine, Élina Frank, Matthias Frank, Max	. MOF	ThP 032 pm 03:10WP 365 am 09:50ThP 512ThP 480 pm 03:10WP 373WP 375WP 375WP 375WP 375MP 203MP 210MP 210MP 210MP 210MP 305ThP 440ThP 430ThP 456ThP 456MP 156 20MP 156 20MP 156 20MP 162ThP 656MP 112ThP 662MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626MP 112ThP 626
Fournier, Isabelle	TOA	ThP 032 pm 03:16 pm 03:16WP 365 am 09:50ThP 512ThP 480 pm 03:16WP 573WP 365ThP 648WP 234 pm 03:16MP 210MP 210MP 210MP 210MP 210MP 210MP 210MP 210MP 210MP 30ThP 436ThP 456MP 112ThP 556MP 112ThP 656 pm 02:30 pm 02:30
Fournier, Isabelle	MOA	ThP 032 pm 03:16 pm 03:16
Fournier, Isabelle	TOA	ThP 032 pm 03:10 pm 03:11 mm 03:10 pm 03:10 mm 03:30 pm 03:30 mm
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Howard Fox, Howard Franceschini, Barbara	MOE .MOD .MOF .MOA	ThP 032 pm 03:10WP 365 am 09:50ThP 512ThP 480 pm 03:10WP 353WP 353WP 353WP 353MP 234 pm 03:10MP 246WP 355MP 216MP 216MP 216MP 217MP 316MP 316MP 317MP 317MP 317MP 317MP 317MP 317MP 317MP 317MP 317
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Frica Fox, Howard Fox, Howard Fox, James France, Aidan Franceschini, Barbara Franceschini, Livia Francese, Simona Francese, Simona Francovic-Fontaine, Élina Frank, David Frank, Max Frank, Max Frank, Max Frank, Max Frankenfield, Shay Frankevich, Vladimir	MOD MOF	ThP 032 pm 03:10WP 365 am 09:50ThP 512ThP 480 pm 03:10WP 373WP 375WP 375WP 375WP 375MP 3
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Erica Fox, Howard Fox, Howard Fox, James France, Aidan Franceschini, Barbara Franceschini, Livia Francese, Simona Francese, Simona Francovic-Fontaine, Élina Frank, David Frank, Matthias Frank, Max Frank, Max Frank, Max Franke, Adrian Frankenfield, Shay Franketter, Cheryl	MOD	ThP 032 pm 03:16WP 365 am 09:50ThP 516WP 370WP 370WP 370WP 370WP 370WP 370WP 370MP 3
Fournier, Isabelle	. MOA	ThP 032 pm 03:16 pm 03:16
Fournier, Isabelle	MOA	ThP 032 pm 03:10 pm 03:11 mm 03:10 pm 03:10 mm
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Howard Fox, Howard Fox, Howard Franceschini, Barbara Franceschini, Marbara Frank, Max Frank, Max Frank, Max Frank, Max Frankenfield, Shay Franklin, Vladimir Franklin, Elissia Franklin, Joseph Franklin, Rachel	MOE .MOD .MOF	ThP 032 pm 03:16WP 365; am 09:56ThP 512WP 365;WP 367;WP 373;WP 373;WP 373;WP 373;WP 373;WP 373;WP 374;WP 234;WP 234;WP 234;WP 234;WP 216;WP 216;
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Howard Fox, Howard Fox, Howard Franceschini, Barbara Franceschini, Marbara Frank, Max Frank, Max Frank, Max Frank, Max Frankenfield, Shay Franklin, Vladimir Franklin, Elissia Franklin, Joseph Franklin, Rachel	MOE .MOD .MOF	ThP 032 pm 03:16WP 365; am 09:56ThP 512WP 365;WP 367;WP 373;WP 373;WP 373;WP 373;WP 373;WP 373;WP 374;WP 234;WP 234;WP 234;WP 234;WP 216;WP 216;
Fournier, Isabelle Fournier, Isabelle Fournier, Isabelle Fowble, Kristen Fowble, Kristen Fowble, Kristen Fox, Bennett Fox, Frica Fox, Howard Fox, Howard Fox, James Franceschini, Barbara Franceschini, Machai Frankini, Bissia Franklin, Bissia Franklin, Barbar Franklin, Rachel Franklin, Sarah	MOE .MOD .MOF	ThP 032 pm 03:16WP 365 am 09:56ThP 512WP 355
Fournier, Isabelle	WOE MOD MOF	ThP 032 pm 03:10WP 363 am 09:50ThP 512ThP 480 pm 03:11WP 373WP 373WP 373WP 373WP 373MP 210MP 210MP 210MP 210MP 363ThP 448ThP 458ThP 626 pm 02:30 pm 02:30 pm 02:31MP 392ThP 468ThP 392ThP 468ThP 392ThP 468ThP 393ThP 146ThP 393ThP 146ThP 393ThP 146ThP 393ThP 146ThP 633ThP 146TP 146

Fraser, lain	
	TP 770
Fraser Caris, Robert	ThD 200
Frazier, Jared	MP 203
Fredericks, Maria	MOH nm 02:30
F	.WOTT pitt 02.00
Freiberger, Elyse	MP 088
Freiria, Nicolas	ThP 579
Freissinet, Caroline	MOC om 10:10
Freitas, Michael	TP 260
Freitas, Michael	TP 262
Tieltas, Michael	TD 402
Freitas, Michael	IP 423
Freitas, Michael	TP 431
Freitas, Michael	
Frejno, Martin	. MOA pm 02:30
Frejno, Martin	ThOF nm 02:50
Frejno, Martin	
Frejno, Martin	TP 654
Frenckner, Bjorn	
Fresnedo, Olatz	WP 071
Freund, Dana	ThP 471
Frey, Benji	
Frey, Brian	TP 718
Frey, Brian L	
Erey Mike	NAD 000
Frey, Mike	
Fricot, Laura	TOH am 08:30
Fridgen, Travis	
Fridgen, Travis	MP 274
Friedrich, Felix	ThP 669
Friedrich, Stephan	
Frier, Mia	WP 570
Friese, Olga	
rilese, Olya	
Friese, Olga	TOG am 09:50
Friese, Olga	TP 008
Friese, Olga	
Friman, Tomas	
Fristedt, Rikard	WP 759
Fritch, Dean	
Fritch, Dean	WP 776
Fritsch, Katharina	
Fritsche, Kevin	
Fritzemeier, Kai	MP 414
Fritzemeier, Kai	MD 424
FILZEITIEIEI, Nat	
Frohlich, Bjorn	ThOF am 09:10
Froning, Joshua	
	TP 089
Frost, Dustin	ThP 325
Frost, Dustin	ThP 325
Frost, DustinFrost, Stefan	ThP 325
Frost, Dustin	ThP 325 WP 658 WP 648
Frost, Dustin	ThP 325 WP 658 WP 648 WP 720
Frost, Dustin	ThP 325 WP 658 WP 648 WP 720
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph	ThP 325 WP 658 WP 648 WP 720 TP 279
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine	ThP 325WP 658WP 648TP 279TP 601 .MOD pm 02:50WP 728
Frost, Dustin	ThP 325WP 658WP 648TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine	ThP 325WP 658WP 648TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10
Frost, Dustin	ThP 325WP 658WP 648TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin. Fu, Qin. Fu, Qin. Fu, Qing.	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qin Fu, Qin Fu, Qing Fu, Tingting	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin. Fu, Qin. Fu, Qin. Fu, Qing.	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qin Fu, Tingting Fu, Tingting Fu, Tingting	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qin Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qin Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Ya'ning	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TP 370TP 370TP 370MP 525Th 176
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin. Fu, Qin. Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiaorong Fu, Ya'ning Fu, Yan	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 228 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525MP 362
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Ya'ning	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 228 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525MP 362
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiaorong Fu, Xiaorong Fu, Yan Fu, Yan Fu, Yan Fu, Yue	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525ThP 176MP 362ThP 407
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiaorong Fu, Xiaorong Fu, Ya'ning Fu, Yan Fu, Yan Fu, Yue Fuchs, Beate	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 581MP 336TOF pm 03:50TP 370MP 525ThP 176MP 362ThP 407WP 265
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Fry, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Yan Fu, Yue Fuchs, Beate Fuchser, Jens	ThP 325WP 658WP 658WP 740TP 279TP 601 .MOD pm 02:50WP 728 ThOF am 10:10WP 224ThP 536TP 370MP 336TOF pm 03:50TP 370MP 362ThP 176MP 362ThP 407WP 265MP 348
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yan Fu, Yae Fuchser, Jens Fuchser, Jens	ThP 325WP 658WP 648WP 648WP 720TP 279TP 601MOD pm 02:50WP 224Th 581MP 336TP 370MP 525Th 176MP 362ThP 407WP 265MP 348TP 375
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yan Fu, Yae Fuchser, Jens Fuchser, Jens	ThP 325WP 658WP 648WP 648WP 720TP 279TP 601MOD pm 02:50WP 224Th 581MP 336TP 370MP 525Th 176MP 362ThP 407WP 265MP 348TP 375
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin. Fu, Qin. Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Yue Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens	ThP 325WP 658WP 648WP 720TP 279TP 601 .MOD pm 02:50WP 228 ThOF am 10:10WP 336TOF pm 03:50TP 370MP 525ThP 176MP 362ThP 407WP 265MP 348TP 375TP 375
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'n Fu, Yue Fuchs, Beate Fuchser, Jens	ThP 325WP 658WP 658WP 648
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'n Fu, Yue Fuchs, Beate Fuchser, Jens	ThP 325WP 658WP 658WP 648
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiaorong Fu, Ya'ning Fu, Yan Fu, Yue Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchte, Maurine Fuentes, Raymond	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiaorong Fu, Xiaorong Fu, Yan Fu, Yan Fu, Yan Fu, Yee Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuches, Raymond Fuentes-Lemus, Eduardo Fry, Stefan	ThP 325WP 658WP 658WP 648
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Yue Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchtes, Raymond Fuentes-Lemus, Eduardo Fuessl, Florian	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 370 TP 370 WP 362 WOA pm 03:30 TP 747 WP 675 ThP 684
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Yue Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchtes, Raymond Fuentes-Lemus, Eduardo Fuessl, Florian	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 370 TP 370 WP 362 WOA pm 03:30 TP 747 WP 675 ThP 684
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yan Fu, Yee Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchten Fuentes, Raymond Fuentes-Lemus, Eduardo Fuessl, Florian Fuessl, Florian	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yan Fu, Yen Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchter, Maurine Fuentes, Raymond Fuentes-Lemus, Eduardo Fuessl, Florian Fuessl, Florian Fuestlerer, Arne	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 264 WP 378 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012 MP 348
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yan Fu, Yee Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchten Fuentes, Raymond Fuentes-Lemus, Eduardo Fuessl, Florian Fuessl, Florian	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 264 WP 378 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012 MP 348
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Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiaorong Fu, Xiaorong Fu, Ya'ning Fu, Yan Fu, Yue Fuchse, Jens Fuchser, Jens Fuchter, Jens Fuchte, Maurine Fuentes, Raymond Fuentes, Raymond Fuentes, Florian Fuest, Florian Fuester, Arne Fuetterer, Arne Fuetterer, Arne	ThP 325 WP 658 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 176 MP 348 TP 375 TP 392
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Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Ya'ne Fu, Yue Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchto, Maurine Fuentes, Raymond Fuentes, Florian Fuessl, Florian Fuester, Arne Fuetterer, Arne	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012 MP 348 TP 375 ThP 684 TP 375 ThP 684 TP 375 ThP 684 TP 375 ThP 392 ThP 375 TP 392
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yee Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchter, Maurine Fuentes, Raymond Fuentes, Florian Fuessl, Florian Fuestlerer, Arne Fuetterer, Arne Fuetterer, Arne Fuetterer, Arne Fuetterer, Tobias	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 774 WP 675 ThP 684 TP 012 MP 348 TP 19 MP 348 TP 375 TP 392 ThP 684 TP 19 MP 348 TP 375 TP 392 TP 375 TP 392 MP 319
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Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yaning Fu, Yee Fuchs, Beate Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchter, Maurine Fuentes, Raymond Fuentes, Florian Fuessl, Florian Fuestlerer, Arne Fuetterer, Arne Fuetterer, Arne Fuetterer, Arne Fuetterer, Tobias	ThP 325 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 264 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012 MP 348 TP 375 TP 392 ThP 579 MP 319
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Qing Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Xiarg Fu, Yan Fu, Yan Fu, Yen Fuchse, Jens Fuchser, Jens Fuchser, Jens Fuchser, Jens Fuchter, Garden Fuentes-Lemus, Eduardo Fuest, Florian Fuester, Arne Fuetterer, Arne Fuetterer, Arne Fuglian Fusing F	ThP 325 WP 658 WP 648 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 MP 324 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 012 MP 348 TP 375 TP 392 ThP 579 MP 319 WP 156 WP 285
Frost, Dustin Frost, Stefan Fry, Matthew Fry, Matthew Frye, Joseph Fu, Cexiong Fu, Hongzheng Fu, Janine Fu, Qin Fu, Qin Fu, Tingting Fu, Tingting Fu, Tingting Fu, Xiang Fu, Xiang Fu, Ya'ning Fu, Ya'ning Fu, Yan Fu, Ye Fuchser, Jens Fuchter, Arne Fuetterer, Arne Fuetterer, Arne Fuetterer, Arne Fugita, Fernando Fuhrer, Tobias Fujimoto, Gordon	ThP 325 WP 658 WP 658 WP 648 WP 720 TP 279 TP 601 MOD pm 02:50 WP 728 ThOF am 10:10 WP 224 ThP 581 MP 336 TOF pm 03:50 TP 370 MP 525 ThP 176 MP 362 ThP 407 WP 265 MP 348 TP 375 TP 392 WOA pm 03:30 TP 747 WP 675 ThP 684 TP 176 MP 348 TP 176 TP 392 ThP 579 MP 319 WP 156 WP 285 ThP 579 MP 319

	WP	389
	MP	364
	WP	533
	MD	124
	IVIF	104
	IVIP	161
	I hP	151
	ThP	346
	TP	236
	MP	413
	TP	368
	WP	380
	ThD	516
	IIIF	216
	IVIP	210
	InP	513
	ThP	516
	WP	658
	ThP	089
	MP	471
	ThP	441
	WP	084
	ThP	750
	IIII	F3F
	١٢٠	298
	IP	448
	WP	063
	TP	724
MOF	am 0	9:30
ThOB	am 0	9:30
	WP	748
	ThD	616
	IIII	400
	IVIP	490
	VVP	6/8
IOF	am 0	9:30
	WP	246
	TD	606
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	ThP	701
	ThP TP	701 086
	ThP TP TP	701 086 178
	ThP TP TP WP	701 086 178 351
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Gallien, Sebastien	WP 070
	WP 700
Galluzzi, Francesca	.MOH pm 02:30
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Gamage, Radhya	TP 449
Gamberi, Chiara	ThP 248
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Gandhi, Tejas	ThP 087
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Cardia Halas	vvP 055
Gandler, Helen	InP 556
Ganguly, Milan	TP 758
Ganguly, Milan	TP 775
Gangwar, Sanjeev	WP 064
Gant, Kristal	MP 767
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Gao, Huanhuan	TP 117
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Gao, Jinshan	ThP 062
Gao, Jiuzhi	TP 460
Gao, Liang	MP 5/15
Cae Ling	
Gao, Ling	VVP 721
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Gao, Tianshun	MP 683
Gao, Tianshun	MP 683
Gao, TianshunGao, Tianwen	MP 683
Gao, TianshunGao, TianwenGao, Wei	MP 683 ThP 736 MP 631
Gao, Tianshun	MP 683 ThP 736 MP 631 WP 685
Gao, Tianshun	MP 683MP 631MP 685MP 685
Gao, Tianshun	MP 683MP 631MP 685WP 685TP 440WP 417
Gao, Tianshun	MP 683MP 631WP 685TP 440WP 417
Gao, Tianshun	MP 683
Gao, Tianshun	MP 683
Gao, Tianshun	MP 683 ThP 736 MP 631 WP 685 WP 685 WP 447 WP 417 ThP 637 ThP 113
Gao, Tianshun	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 313 ThP 247
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Gao, Tianshun	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 113 ThP 2362 TP 715
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Xnliu Gao, Yan Gao, Yan Gao, Yan Gao, Yankun Gao, Yunyun Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi Gapeev, Alexey	MP 683 ThP 736 MP 637 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 113 ThP 247 MP 362 TP 715
Gao, Tianshun	MP 683 ThP 736 MP 637 WP 685 TP 440 WP 717 ThP 637 ThP 113 ThP 247 MP 362 TP 715 MP 362
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Whili Gao, Yan Gao, Yan Gao, Yankun Gao, Yankun Gao, Yunyun Gao, Yuqian Gao, Tiqiang Gao, Zi Gapeev, Alexey Garate, Jone Garate, Jone	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 113 ThP 247 MP 362 TP 715 MP 347
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Wei Gao, Xnliu Gao, Yan Gao, Yan Gao, Yankun Gao, Yunyun Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garate, Jone	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 247 MP 362 TP 715 ThP 427 MP 362 TP 715 MP 362 MP 362
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Wei Gao, Yan Gao, Yan Gao, Yan Gao, Yankun Gao, Yuquan Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi. Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Spiros	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 137 MP 362 TP 715 ThP 421 MP 347 MP 347 MP 071 MP 171
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Wei Gao, Yan Gao, Yan Gao, Yan Gao, Yankun Gao, Yuquan Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi. Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Spiros	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 137 MP 362 TP 715 ThP 421 MP 347 MP 347 MP 071 MP 171
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Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Wei Gao, Xnliu Gao, Yan Gao, Yan Gao, Yankun Gao, Yankun Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garbis, Spiros Garbis, Spiros Garbis, Spiros Garbis, Spiros Garby, David	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 113 ThP 247 MP 362 TP 715 MP 367 ThP 421 MP 367 MP 691 MP 638
Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Wei Gao, Xnliu Gao, Yan Gao, Yan Gao, Yan Gao, Yankun Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Spiros Garbis, Spiros Garby, David Garcia, Benjamin	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 247 MP 362 TP 715 ThP 421 MP 362 TP 715 MP 367 MP 171 MP 691 ThP 985 ThP 121 WP 633 MP 163
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Gao, Tianshun Gao, Tianwen Gao, Wei Gao, Xnliu Gao, Yan Gao, Yan Gao, Yan Gao, Yankun Gao, Yunyun Gao, Yuqian Gao, Yuqian Gao, Zhiqiang Gao, Zi Gapeev, Alexey Garate, Jone Garate, Jone Garate, Jone Garbis, Spiros	MP 683 ThP 736 MP 631 WP 685 TP 440 WP 417 WP 717 ThP 637 ThP 137 MP 362 TP 715 MP 362 MP 347 MP 347 MP 247 MP 691 ThP 098 ThP 121 WP 638 MP 163 MP 164
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Geiger, Matthew Geiger, Matthew Geissen, Caroline Geiszler, Daniel Gelb, Abby To Gelb, Abby Gelis, Ioannis Geller, Sarah Geller, Serah Gemperline, Erin Geng, Meiyu Geng, Xia Wo	DD	TI TF MF ThF am (WF ThF pm (MF	P 111 P 182 P 738 P 693 08:50 P 074 P 336 P 611 P 527 03:30 P 186
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Geiger, Matthew Geiger, Matthew Geissen, Caroline Geiszler, Daniel Gelb, Abby Gelis, Ioannis Geller, Sarah Gemperline, Erin Geng, Meiyu Geng, Xia Geng, Xia Gentalen, Erik Gentalen, Erik George, Ed George, Ed George, Ed George, Ed George, Ed Gerbasi, Robert Gerbasi, Robert Gerbasi, Vincent Gerbaux, Pascal Gerbaux, Pascal Gerbaux, Pascal Gerber, Isak Gerber, Scott Gerbig, Stefanie Gerbain, The Gerbain, Ronald		TI TF MF MF MF THF MF THF THF MF M	P 111 1 182 2 738 8 75 75 75 75 75 75 75 75 75 75 75 75 75
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Ghode, Abhijeet Ghosal, Anima Ghose, Shourjo Ghosh, Abhijit Ghosh, Atanu Ghosh, Chiranjit Ghosh, Dipankar	MOG	TP 343ThP 147MP 762TP 516TP 630TP 642TP 676MP 196TP 543 am 09:30ThP 195TP 237TP 238MP 208MP 191TP 247TP 248MP 195TP 248MP 196TP 248MP 694
Ghode, Abhijeet Ghosal, Anima Ghose, Shourjo Ghosh, Abhijit Ghosh, Atanu Ghosh, Chiranjit Ghosh, Dipankar	MOG	TP 343 ThP 147 MP 762 TP 516 TP 630 TP 642 TP 642 TP 717 MP 191 ThP 583 am 09:30 ThP 195 TP 237 TP 238 TP 238 MP 191 TP 238 TP 238 MP 694 MP 141 MP 209 WP 687 TP 27 TP 582
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Ghode, Abhijeet Ghosal, Anima Ghose, Shourjo Ghosh, Abhijit Ghosh, Atanu Ghosh, Chiranjit Ghosh, Dipankar Ghosh, Michael Ghosh, Tanisha Giacomantonio, Michael Giacomantonio, Michael Giacomantonio, Michael	MOG	TP 343TP 147MP 762TP 510TP 630TP 642TP 717WP 662MP 191TP 237TP 238WP 280WP 280WP 887WP 687WP 687WP 687WP 582WP 582WP 582
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Graca, Connor	MP 272	Griffiths, Rian	TOC pm 02:50	Gu, Xinyun	
Graca, Connor	TP 276	Griffiths, Rian	WP 031	Gu, Zezong	TP 125
Graca, Connor	TP 282	Grigorean, Gabriela	MP 249	Gu*, Jingkai	
Grad, Yonatan	MP 061	Grigorean, Gabriela	TP 049	Guan, Fuyu	TP 259
Graham, Danielle	WP 077	Grigorean, Gabriela		Guan, Shanshan	ThP 615
Graham, James	MP 650	Grill, Matthias		Guan, Shenheng	MP 371
Graham Martin	MP 060	Grimos Nathan	MD 707	Guan Shanhana	MD 200

Gozzo, Fabio	WP 127
Graber, MichaelThOC	am 09:10
Graber, Michael	
Graca, Connor	
Graca, Connor	
Graca, Connor	
Grad, Yonatan	
Graham, Danielle	WP 077
Graham, James	
Graham, Martin	
Grandal, Meghan	
Grande, NoelMOG	am 10·10
Grandy, JonathanMOG	am 09:30
Granger, CarolineThOH	
Granger, CarolineWOE	
Granot, Ori	
Grant, Emma	
Grant, MurrayGrant, Russell	
Grant, Russell	
Grant, Russell WOD	
Grãos, Mário	
Gräslund, Astrid	
Grassmyer, KathleenMOB	
Grasso, Giuliana	
Gravell, Anthony	IP 199
Graves, Lee	TP 765
Gray, Katherine	
Gray, Stephen	WP 696
Grayson, Michael	TP 036
Grayson, Scott M	
Grebe, Stefan	
Greeley, LauraThOE Green, Ahren	pm 03:50
Green, Bob	
Green, Kari	
Green, Kari	
Green, Martin	MP 476
Green, Martin	MP 476 WP 342
Green, Martin	MP 476 WP 342 MP 535
Green, Martin	MP 476 WP 342 MP 535 ThP 160
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael	MP 476 WP 342 MP 535 ThP 160 MP 714
Green, Martin	MP 476 WP 342 MP 535 ThP 160 MP 714 TP 698
Green, Martin	MP 476 WP 342 MP 535 ThP 160 MP 714 TP 698 WP 482 ThP 434
Green, Martin	MP 476 WP 342 MP 535 ThP 160 MP 714 TP 698 WP 482 WP 434
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779 pm 02:30
Green, Martin	MP 476 WP 342 MP 535 ThP 160 MP 714 TP 698 WP 482 ThP 434 MP 375 MP 777 MP 779 pm 02:30 TP 725
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779MP 779MP 779MP 779MP 222
Green, Martin Green, Todd Green, Todd Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779 pm 02:30TP 725WP 222MP 777MP 777
Green, Martin	MP 476WP 342MP 535ThP 160 .MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725WP 222MP 777MP 777
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Nicole	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482MP 375MP 777 pm 02:30TP 725WP 222MP 777TP 725TP 725
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Nicole Greer, Nicole Greeroy, Paul	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779 pm 02:30TP 725WP 222MP 777TP 725TP 725
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779MP 779MP 779MP 779MP 779MP 775MP 775MP 775MP 775MP 775MP 777TP 725ThP 767TP 089MP 484ThP 447
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Nicole Gregon, Paul Gregson, Daniel Gregson, Daniel	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779MP 777MP 484MP 484MP 484MP 484MP 091
Green, Martin	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 725MP 484TP 725TP 767TP 767TP 789MP 484ThP 447WP 091ThP 566ThP 721
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Micole Gregony, Paul Gregson, Daniel Gregson, Daniel Gregus, Michael Greig, Michael	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482MP 375MP 777MP 779 pm 02:30TP 725MP 777TP 725TP 725TP 725TP 789MP 484ThP 566ThP 566ThP 566ThP 721ThP 5661
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Nicole Gregony, Paul Gregon, Daniel Gregus, Michal Gregus, Michal Greigus, Michael Greisch, Jean-Francois	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779 pm 02:30TP 725WP 222MP 777TP 767TP 767TP 089MP 484ThP 447WP 091ThP 566ThP 721ThP 561ThP 761
Green, Martin Green, Todd Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Nicole Greer, Nicole Greer, Nicole Gregony, Paul Gregony, Paul Gregony, Daniel Gregus, Michal Gregus, Michal Greigus, Michael Greigus, Michael Greigh, Michael Greigh, Joan-Francois Grelier, Gwendal	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 777MP 779MP 779MP 779MP 777MP 725MP 777TP 725ThP 767TP 089MP 484ThP 447WP 091ThP 566ThP 721ThP 601MP 776MP 776MP 776MP 776MP 776MP 776MP 776MP 776MP 776
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, J	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725MP 777MP 779MP 777MP 779 pm 02:30TP 725MP 777MP 779MP 775MP 777MP 222MP 777MP 775MP 601ThP 601ThP 601ThP 601MP 776WP 421WP 063
Green, Martin Green, Todd Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Nicole Greer, Nicole Greer, Nicole Gregony, Paul Gregony, Paul Gregony, Daniel Gregus, Michal Gregus, Michal Greigus, Michael Greigus, Michael Greigh, Michael Greigh, Joan-Francois Grelier, Gwendal	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725WP 222MP 777MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 725MP 221MP 777MP 775TP 789MP 484ThP 447TP 447TP 566ThP 566ThP 721ThP 601MP 761MP 763
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Michael Gregson, Daniel Gregus, Michael Gregus, Michael Greig, Michael Greisch, Jean-Francois Grelier, Gwendal Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 375MP 779 pm 02:30TP 725MP 777TP 725MP 777TP 767TP 767ThP 566MP 484ThP 566MP 776ThP 561MP 776ThP 561MP 776ThP 601MP 776ThP 601MP 776ThP 721ThP 601MP 776MP 763MP 763
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greey, Joel Grespon, Daniel Greigus, Michal Greigus, Micha	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779MP 779MP 779MP 779MP 779MP 779MP 779MP 776MP 777MP 767TP 765ThP 761MP 776MP 776MP 776MP 776MP 776MP 776MP 776MP 776MP 763MP 763TP 763TP 763TP 763TP 763TP 240 am 08:30
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Grees, Michal Greign, Greign Greenler, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph Grevelding, Christoph TOD Grieves, Nigel	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725MP 777MP 779MP 779MP 771ThP 601ThP 601MP 776WP 421MP 063WP 763WP 763TP 763ThP 240MP 330TP 171
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Micha Gregory, Paul Gregson, Daniel Gregson, Daniel Gregus, Michal Greigus, Michal Greigus, Michal Greigus, Michal Greigus, Michal Greigus, Michal Greisch, Jean-Francois Grelier, Gwendal Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Grevelding, Carl	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 767TP 763TP 601MP 763WP 421MP 063WP 763TP 763TP 763TP 763TP 763TP 771ThP 352
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greign, Paul Gregson, Daniel Gregson, Daniel Gregus, Michael Greigk, Michael Greigk, Jean-Francois Grelier, Gwendal Grenier, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Greiffin, Carl	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779 pm 02:30TP 725MP 777MP 779 pm 02:30TP 725ThP 767TP 765TP 767TP 089MP 484ThP 447TP 761TP 601MP 776MP 771MP 773MP 773MP 773MP 613MP 613MP 613MP 613MP 613MP 763TP 763TP 763TP 171ThP 352WP 220
Green, Martin Green, Todd Greenen, Todd Greenbargh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Micole Gregony, Paul Gregson, Daniel Gregson, Daniel Gregus, Michal Gregus, Michal Greig, Michael Greig, Michael Greigr, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Griffin, Carl Griffin, Carl Griffin, Carl	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779MP 779MP 779MP 779MP 775MP 763MP 661MP 763MP 663MP 763MP 763MP 763MP 763MP 352MP 352MP 220MP 674
Green, Martin Green, Todd Greenberger, Joel Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greer, Mick Greign, Paul Gregson, Daniel Gregson, Daniel Gregus, Michael Greigk, Michael Greigk, Jean-Francois Grelier, Gwendal Grenier, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Greiffin, Carl	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 777MP 779MP 779MP 777MP 779MP 777MP 779MP 777MP 775MP 776MP 767MP 601MP 766MP 766MP 766MP 776MP 776MP 601MP 776MP 601MP 776MP 763MP 63TP 763TP 763TP 171ThP 352WP 220WP 220WP 220
Green, Martin Green, Todd Green, Todd Greenhalgh, Calum Greenlief, C. Michael Greenwalt, Scott Greenwood, Bennett Greer, Joseph Gregon, Daniel Gregon, Daniel Gregon, Daniel Gregus, Michal Gregus, Michal Gregus, Michal Greigh, Joan-Francois Grelier, Gwendal Grenier, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Grenier, Ana Celia Greshock, Joel Grevelding, Christoph Grevelding, Christoph Grevelding, Christoph Griffin, Carl Griffin, Carl Griffin, Patrick Griffin, Timothy	MP 476WP 342MP 535ThP 160MP 714TP 698WP 482ThP 434MP 777MP 779MP 779MP 779MP 779MP 779MP 779MP 779MP 779MP 775MP 767TP 725MP 767TP 763MP 484WP 091ThP 601MP 766MP 763WP 421MP 763TP 763TP 763TP 763TP 240MP 352MP 270ThP 352ThP 352ThP 674MP 758

Griffin, Timothy	IP 435
Griffin, Timothy	TD 163
Griffith, David	TP 180
Griffith, Linda	
Griffiths, RianTOO	
Griffiths, Rian	WP 031
Grigorean, GabrielaGrigorean, Gabriela	MP 249
Grigorean, Gabriela	
Grill, Matthias	MP 099
Grimes, Nathan	MP 707
Grimes, Nathan	
Grimsby, JosephWOE	
Grimsey, ElizabettiThOC	
Grinfeld, Dmitry	
Grinfeld, Dmitry	ThP 088
Grinfeld, Dmitry	
Grinfeld, Dmitry	
Griss, JohannesThO/ Gritsenko, Marina	
Gritsenko, Marina	MP 138
Gritsenko, Marina ThOC	
Groeber, Elizabeth	
Groeber, Elizabeth	WP 755
Gröger, ThomasWOE	2 pm 03:30
Gröger, ThomasTOF	1 pm 02:50
Gronert, Scott	MP 277
Gronert, Scott	
Groopman, JohnThOl-	1 am 09:50
Gross, JasonTOE Gross, JeffreyThOE	06:80 ms 6
Gross, Jürgen	
Gross, Michael	MP 036
Gross, Michael	
Gross, Michael	
Gross, Michael	
GIOSS, IVIICIIAEI	1111 030
Gross, Michael	ThP 653
Gross, MichaelTOR	am 09:10
Gross, MichaelTOR	= am 09:10 TP 181
Gross, Michael	am 09:10 TP 181 TP 330
Gross, Michael	am 09:10 TP 181 TP 330 TP 338
Gross, Michael	F am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034
Gross, Michael	F am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134
Gross, Michael	F am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134 WP 135 WP 142
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134 WP 135 WP 142
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134 WP 149 WP 142 WP 149
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 WP 034 WP 134 WP 142 WP 149 WP 149 WP 548
Gross, Michael	= am 09:10 TP 181 TP 338 TP 338 WP 034 WP 134 WP 135 WP 142 WP 712 WP 712 WP 548 WP 548
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 135 WP 142 WP 149 WP 548 WP 548 TP 564 TP 564
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 134 WP 149 WP 142 WP 548 TP 564 TP 564 TP 309 TP 309
Gross, Michael	= am 09:10 TP 181 TP 330 TP 338 TP 341 WP 034 WP 135 WP 149 WP 149 WP 548 TP 564 TP 564 TP 309 WP 065 E am 09:30
Gross, Michael	= am 09:10 TP 181 TP 338 YP 338 WP 034 WP 135 WP 142 WP 149 WP 548 WP 548 TP 564 TP 309 WP 065 E am 09:30 WP 276
Gross, Michael	= am 09:10 TP 181 TP 338 TP 338 WP 034 WP 134 WP 145 WP 149 WP 548 WP 548 TP 564 TP 309 WP 065 E am 09:30 WP 276 WP 276
Gross, Michael	= am 09:10 TP 181 TP 330 YP 338 YP 341 WP 034 WP 134 WP 149 WP 149 WP 548 YP 568 TP 564 TP 564 TP 309 WP 065 E am 09:30 WP 276 WP 231 WP 231
Gross, Michael	= am 09:10 TP 181 TP 380 TP 338 TP 341 WP 034 WP 134 WP 149 WP 149 WP 548 TP 564 TP 564 TP 309 WP 065 E am 09:30 WP 276 MP 236 MP 236 MP 236
Gross, Michael	= am 09:10 TP 181 TP 380 TP 338 TP 341 WP 034 WP 135 WP 149 WP 149 WP 548 TP 564 TP 564 TP 309 WP 276 WP 276 WP 231 WP 231 WP 231 WP 240 TP 367
Gross, Michael	= am 09:10TP 181TP 381TP 338TP 341WP 034WP 135WP 142WP 149WP 548TP 564ThP 136TP 309WP 276MP 231WP 231MP 236MP 240TP 367TP 447ThP 4469TP 469
Gross, Michael	= am 09:10TP 181TP 338TP 338TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 564TP 309WP 276TP 309WP 276TP 367TP 367TP 469TP 469TP 469
Gross, Michael	= am 09:10TP 181TP 381TP 338TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 564TP 309WP 236TP 309WP 276TP 309WP 276TP 367TP 367TP 447TP 469TP 4691TP 687
Gross, Michael	= am 09:10TP 181TP 380TP 338TP 341WP 034WP 135WP 149WP 149WP 548TP 564TP 564TP 309WP 276MP 231WP 231WP 240TP 367TP 447ThP 469MP 687MP 687MP 687
Gross, Michael	= am 09:10TP 181TP 181TP 338TP 341WP 034WP 134WP 135WP 149WP 548TP 564Th 9 136TP 309WP 256Th 2 136WP 276MP 231MP 236MP 240TP 367MP 240TP 367MP 240TP 447Th 469WP 091MP 687 G am 10:10TP 444TP 444
Gross, Michael	= am 09:10TP 181TP 338TP 3341WP 034WP 134WP 134WP 149WP 548TP 564TP 564TP 569TP 309WP 276TP 309WP 276TP 367TP 367TP 442TP 443TP 443TP 444
Gross, Michael	= am 09:10TP 181TP 380TP 338TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 309WP 276TP 309WP 276TP 309WP 276TP 309WP 276TP 405MP 231MP 231MP 236MP 231MP 236MP 231MP 236MP 240TP 467ThP 468TP 468TP 443TP 444TP 241TP 443
Gross, Michael	= am 09:10TP 181TP 381TP 338TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 564TP 564TP 309WP 276MP 231MP 236MP 236MP 236TP 367TP 447ThP 469WP 091MP 687TP 444TP 444TP 443TP 444TP 442TP 443TP 443TP 442TP 443TP 445
Gross, Michael	= am 09:10TP 181TP 181TP 330TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 564TP 564TP 309WP 276MP 231WP 240TP 447TP 469WP 091MP 687TP 442TP 443TP 444TP 443TP 442TP 443TP 442TP 221 E am 09:30
Gross, Michael	= am 09:10TP 181TP 187TP 338TP 341WP 034WP 134WP 134WP 149WP 149WP 548TP 564TP 309WP 276TP 569MP 231MP 231MP 236MP 240TP 367ThP 469TP 443TP 444TP 445TP 445TP 444TP 445TP 445TP 446TP 447TP 443TP 443TP 443TP 443TP 444TP 221 E am 09:30ThP 227TP 037TP 037TP 037TP 037TP 037TP 037
Gross, Michael	= am 09:10TP 181TP 187TP 338TP 341WP 034WP 134WP 149WP 149WP 548TP 564TP 564TP 309WP 276MP 231MP 236MP 240TP 367ThP 469MP 687ThP 468TP 444TP 444TP 443TP 444TP 221TP 037ThP 277ThP 277THP 277THP 277TP 377TP 377

Gu, Haiwei		00-
Gu, Huidong	.MP	003
Gu, Huidong	TP	069
Gu, Huidong	TP	072
Gu, Ting-Jia	ThP	325
Gu, Xinyun	TP	550
Gu, Zezong	II	125
Gu* lingkoi	IF	01/
Gu*, Jingkai	TIP	014
Guan, Fuyu	12	259
Guan, Shanshan	InP	615
Guan, Shenheng	.MP	371
Guan, Shenheng	.MP	399
Guan, Shenheng	.MP	406
Guan, Shenheng	.WP	508
Guan, Xiaoyan	.MP	651
Guardado, Tania	ThP	656
Guckenberger, Brody	TP	311
Gueneli, Nur	TP	148
Guéraud, Françoise	I I	770
Outrate Consender	.VVF	770
Guérette, Cassandra	11	21
Guérineau, Vincent	INP	534
Guerreiro, Tatiane	ThP	126
Guerrero, Andres	ThP	697
Guerrero, Andres	.WP	228
Gugiu, Gabriel	.MP	409
Gugiu, Gabriel	ThP	539
Gugiu, Gabriel	.WP	557
Guha, Udayan	.MP	705
Gui, Yuzhou	WP	023
Guiberson, Emma	WP.	376
Guidolin, Valeria	.vvi ThD	503
Outton, valena	1111	0.50
Guijas, Carlos MOA p	om U	2:50
Guijas, CarlosThOB p	m u	3:30
Guijt, Rosanne	ThP	562
Guilarte, Tomas	.WP	003
Guillemant, JulieTOH p	om 0	2:30
Guillemin, Gilles	ThP	112
Guillorit. Helene	ThP	608
Guingab-Cagmat, Joy	.WP	605
Gujar, Amit	TP	316
Gujar, Shashi	ThP	470
Guiar Shashi	W/P	583
Gujar, Shashi	.WP	582
Gujar, Shashi	.WP	582 731
Gujar, Shashi	.WP .WP	582 731 700
Gujar, Shashi	.WP .WP .MP ThP	582 731 700 467
Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet. Guldberg, Robert	.WP .WP .MP ThP ThP	582 731 700 467 550
Gujar, Shashi	.WP .WP .MP ThP ThP	582 731 700 467 550 533
Gujar, Shashi	.WP .WP .MP ThP ThP TP	582 731 700 467 550 533 381
Gujar, Shashi	.WP .WP .MP ThP TP .MP	582 731 700 467 550 533 381 643
Gujar, Shashi	.WP .WP .MP ThP TP TP	582 731 700 467 550 533 381 643 773
Gujar, Shashi	.WP .WP .MP ThP TP TP	582 731 700 467 550 533 381 643 773
Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea	.WP .WP .MP ThP TP TP TP TP	582 731 700 467 550 533 381 643 773 483
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea. Gunaratne, Don	.WP .WP .MP ThP TP TP TP MP	582 731 700 467 550 533 381 643 773 483 489
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha	.WP .WP .MP .TP .TP .TP .MP .MP	582 731 700 467 550 533 381 643 773 483 489 664
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gunawardena, Harsha	.WP .MP ThP .TP TP TP .MP .MP .MP	582 731 700 467 550 533 381 643 773 483 489 664 013
Gujar, Shashi	.WP .MP ThP ThP TP .MP TP .MP .MP	582 731 700 467 550 533 381 643 773 483 664 013 580
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet. Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea. Gunavardena, Harsha Gunawardena, Harsha Gunawardena, Harsha Gunawardena, Harsha	.WP .WP ThP ThP TP TP MP MP TP TP	582 731 700 467 550 533 381 643 773 483 664 013 580 637
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gunawardena, Harsha Gunawardena, Harsha Gunawardena, Harsha Gunawardena, Harsha Gunawardena, Harsha	.WP .WP .MP ThP TP .MP TP .MP TP TP TP	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha	.WP .WP .MP ThP TP TP MP MP TP TP TP T	582 731 700 467 550 533 381 643 773 483 489 664 013 580 637 042 251
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha	.WP .MP ThP .TP TP TP .MP TP TP TP TP	582 731 700 467 550 533 381 643 773 483 664 013 637 042 251 365
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gundersdorf, Richard Gundersen, Cynthia	.WP .WP .MP ThP .TP TP .MP TP TP TP TP TP	582 731 700 467 550 533 381 643 773 483 489 664 013 580 637 042 251 368 443
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha	.WP .WP .MP ThP .TP TP .MP TP TP TP TP TP	582 731 700 467 550 533 381 643 773 483 489 664 013 580 637 042 251 368 443
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gundersdorf, Richard Gundersen, Cynthia Gundry, Rebekah	.WP .WP .MP ThP .TP TP .MP TP TP .WP TP TP	582 731 700 467 550 533 381 643 773 483 489 664 013 580 637 042 251 368 443 9:50
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunavardena, Harsha Gunawardena, Harsha Gundersen, Cynthia Gundry, Rebekah MOC a	.WP .WP .MP ThP TP TP .MP TP TP TP .WP TP TP	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042 251 365 443 9:50 106
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea Gunawardena, Harsha Gundersdorf, Richard Gundersen, Cynthia Gundry, Rebekah Gundry, Rebekah	.WP .WP .MP ThP TP TP .MP TP TP TP TP TP	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042 251 368 443 9:50 106 368
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gundersen, Cynthia Gundry, Rebekah Gundry, Rebekah Gundry, Rebekah	.WP .WP .MP ThP ThP TP .MP .MP TP TP .WP TP TP ThP	582 731 700 467 550 533 381 643 773 483 489 664 013 580 637 042 251 365 443 9:50 106 365 666
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunaratne, Don Gunawardena, Harsha Gundersdorf, Richard Gundersdorf, Richard Gundersen, Cynthia Gundry, Rebekah Gundry, Rebekah Gundry, Rebekah Gundry, Rebekah Gundry, Rebekah	.WP .WP .MP ThP ThP TP .MP .MP TP TP .WP TP TP ThP ThP	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042 251 365 443 9:50 106 668
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet. Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea. Gunawardena, Harsha Gunawardena	.WP .WP .MP ThP .TP .MP .MP .MP .TP .WP .WP .TP ThP ThP ThP	582 731 700 467 550 533 381 643 773 483 664 580 637 042 251 365 443 9:50 106 666 668 068
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea Gunawardena, Harsha Gundersen, Cynthia Gundersen, Cynthia Gundry, Rebekah	.WP .WP .MP ThP .TP .MP .TP .MP .TP .WP .TP .WP .TP .WP ThP ThP ThP .WP	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042 251 365 443 9:50 106 668 668 668 668 184
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet. Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea. Gunawardena, Harsha Gundersen, Cynthia Gundersen, Cynthia Gundry, Rebekah	.WP .WP .MP ThP .TP .MP TP .MP T	5827317004675500467550338164357734834899:50422513666668666866866686686686686686686686686
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha Gundersen, Cynthia Gundry, Rebekah	.WP .WP .MP ThP TP TP .MP .MP T	582 731 700 467 550 533 381 643 773 483 664 013 580 637 042 251 365 443 9:50 666 668 668 184 224 537
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha	.WP .WP ThP ThP TP .MP TP .MP TP .WP TP .WP ThP ThP ThP ThP ThP ThP ThP	582 731 700 467 550 533 381 643 773 483 664 637 042 251 106 366 666 666 666 184 224 577 728
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha Gunawa	.WP .WP .MP ThP TP TP MP .MP TP TP TP TP	582 731 700 467 550 533 81 643 773 483 664 013 580 663 70 443 9:50 668 668 668 668 668 668 668 772 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea Gunawardena, Harsha Gunawardena,	.WP .WP .MP TP TP MP TP MP TP	582 731 700 467 550 533 381 643 773 483 483 464 013 580 668 668 668 668 668 668 668 772 368 433 668 668 668 668 668 668 668 668 668 6
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea Gunavardena, Harsha Gunawardena, Harsha Gundersdorf, Richard Gundersen, Cynthia Gundry, Rebekah Gunsalus, Robert Gunsalus, Robert Gunsalus, Robert Guo, Ang Guo, Ang Guo, Baochuan	.WPWPMPTPTP	582 731 700 467 550 533 381 643 773 483 489 601 365 668 9:50 106 365 668 184 224 537 350 364 728 365 365 365 365 365 365 365 365 365 365
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Guna, Mircea Gunawardena, Harsha Gundersdorf, Richard Gundersen, Cynthia Gundry, Rebekah Gunsalus, Robert Gunsalus, Robert Gunsalus, Robert Gunsalus, Robert Guo, Ang Guo, Baochuan Guo, Baochuan	.WPWPMPTPMPTPMPTPTPTPTPTPTPTPTPTPTPTPTPTP	582 731 700 467 550 533 381 647 483 664 013 580 667 368 668 668 668 668 668 668 728 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha	WP.WPP.MPP.MPP.MPP.MPP.MPP.MPP.MPP.MPP.M	582 731 700 467 550 533 381 643 7483 664 013 580 664 368 443 9:50 668 668 668 668 728 350 364 728 537 728 350 537 728 537 728 537 728 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha	WP.WPP.MPP.MPP.MPP.MPP.MPP.MPP.MPP.MPP.M	582 731 700 467 550 533 381 643 7483 664 013 580 664 368 443 9:50 668 668 668 668 728 350 364 728 537 728 350 537 728 537 728 537 728 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha Gunawardena, Harsh	.WP. WPP. MPPTPPMPP.	582 731 700 467 550 538 643 773 483 489 664 251 106 666 668 668 184 224 537 728 537 728 537 728 537 728 537 728 537 728 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Guler, Arzu Tugce Gummer, Joel Guna, Mircea. Gunawardena, Harsha	WP .WP .ThP TP TP MP TP MP TP MP TP WP TP MP MP TP MP	582 731 700 467 550 553 643 773 483 489 664 225 1365 666 668 728 728 728 728 728 728 728 728 728 72
Gujar, Shashi Gujar, Shashi Gujar, Shashi Gujral, Taranjit Gukasyan, Janet Guldberg, Robert Gulde, Paul Guler, Arzu Tugce Gummer, Joel Guna, Mircea Gunawardena, Harsha Gunawardena, Harsh	WP .WP .MP .ThPTPTPTP	582 731 700 467 5533 381 643 773 483 489 664 580 663 704 225 1365 666 668 184 224 728 728 728 728 728 728 738 738 748 758 758 758 758 758 758 758 758 758 75

Guo, Chunyang		WP 142
Guo , Dan		MD 343
Guo, Dan		IVIF 342
Guo, Fang		WP 504
Guo, Jia	ThOD	am 09:10
Guo, Jiabao		
Guo, Jiantao		
Guo, Jing		TP 206
Guo, Jingshu		
Guo, Jinshu		
Guo, Junhong		TP 084
Guo, Lei		
Guo, Lilu		ThP 088
Guo, Qi		
Guo, Qilei		
Guo, Qilei		WP 290
Guo, Qing		ThP 076
Guo , Su		
Guo, Tiannan		ThP 267
Guo, Tiannan		
Guo, Tiannan		IP 681
Guo, Xiangyu		MP 343
Guo, Xu		MD 267
Guo, Au		IVIP 301
Guo, Xuejiang		MP 689
Guo, Xuejiang		
Guo, Yanting	100	pm 02:50
Guo, Yilong	MOF	am 08:50
Guo, Yingbo		TD 160
Guo, Yueshuai		MP 689
Guo, Zhanjun		WP 152
Guo, Zhengguang		
Guo, Zhiqiong		ThP 014
Gupta, Himani		MP 507
Gupta, Himani		
Gupta, Himani		ThP 069
Gupta, Meera		TP 702
Outto De'al		TD 000
Gupta, Rajat		IP 099
Gupta, Rishabh		MP 098
Gupta, Shantam		
Gurevich, Alexey		TP 433
Gursky, Alexis		TD 106
Gurung, Bhupendra		ThP 320
Gurung, Bhupendra		ThP 320
Gurung, BhupendraGurung, Dipa		ThP 320 TP 350
Gurung, BhupendraGurung, DipaGus, Jeffrey		ThP 320 TP 350 ThP 148
Gurung, Bhupendra		ThP 320 TP 350 ThP 148 TP 427
Gurung, BhupendraGurung, DipaGus, Jeffrey		ThP 320 TP 350 ThP 148 TP 427
Gurung, BhupendraGurung, DipaGus, JeffreyGuss, AdamGustafson, Elaura		ThP 320 TP 350 ThP 148 TP 427 MP 474
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan		ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228
Gurung, Bhupendra		ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan		ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028
Gurung, Bhupendra		ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028 ThP 332
Gurung, Bhupendra		ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028 TP 332 WP 148
Gurung, Bhupendra	MOE	ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028 TP 332 WP 148 am 09:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle	. MOE	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 381
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle	. MOE	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 381
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Dario	. MOE	ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 ThP 332 WP 148 am 09:30 TP 381 ThP 451
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew	MOE	ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 ThP 332 WP 148 am 09:30 TP 381 ThP 451 am 08:50
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Dario	MOE	ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 ThP 332 WP 148 am 09:30 TP 381 ThP 451 am 08:50
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William. Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás	MOE	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 381TP 381 am 08:50TP 457
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafsson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene	MOE	ThP 320 TP 350 ThP 148 TP 427 MP 474 ThP 228 TP 028 ThP 332 WP 148 am 09:30 TP 381 ThP 451 am 08:50
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras	MOE	ThP 320TP 350ThP 148TP 427MP 474Th 228TP 028TP 332WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 456ThP 063
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos	TOA	ThP 320ThP 350ThP 148ThP 427MP 474ThP 228TP 028TP 1332WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 486ThP 086 am 09:10
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos	TOA	ThP 320ThP 350ThP 148ThP 427MP 474ThP 228TP 028TP 1332WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 486ThP 086 am 09:10
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa	MOE	ThP 320TP 350TP 148TP 427MP 474Th 228TP 028TP 1332WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 486ThP 063 am 09:10 am 10:10
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri	TOA	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 345 am 08:50TP 457TP 486TP 486TP 486TP 487TP 486TP 486TP 490:30TP 490:
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa	TOA	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 345 am 08:50TP 457TP 486TP 486TP 486TP 487TP 486TP 486TP 490:30TP 490:
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri	TOA	ThP 320TP 350ThP 148TP 427MP 474ThP 228TP 028TP 332WP 148 am 09:30TP 381TP 457TP 457TP 486TP 463 am 10:10 am 10:10 am 10:10MP 062ThP 495
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Tomás Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie	WOB	ThP 320ThP 350ThP 148ThP 471ThP 472MP 474ThP 228TP 1028ThP 332MP 148 am 09:30TP 381ThP 451 am 08:50TP 457ThP 466ThP 063 am 09:10 am 10:10MP 062ThP 965 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steve	TOA WOB MOG	ThP 320ThP 350ThP 148Th 27MP 474Th 228TP 028TP 132WP 148 am 09:30TP 381ThP 451 am 08:50TP 457 am 09:10 am 10:10MP 062ThP 063 am 09:10 am 10:30 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Tomás Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie	TOA WOB MOG	ThP 320ThP 350ThP 148Th 27MP 474Th 228TP 028TP 132WP 148 am 09:30TP 381ThP 451 am 08:50TP 457 am 09:10 am 10:10MP 062ThP 063 am 09:10 am 10:30 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Tomás Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Guttman, Andras. Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steve Gygi, Steve	MOE WOB MOG	ThP 320ThP 350ThP 148Th 247Th 277MP 474Th 228TP 1028Th 232WP 148 am 09:30TP 381ThP 451 am 08:50TP 468ThP 063ThP 063ThP 063ThP 495 pm 03:30 pm 03:30MP 418
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Guttman, Miklos Gutman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steve Gygi, Steven Gygi, Steven	MOE	ThP 320ThP 350ThP 148TP 427MP 474ThP 228TP 028TP 038TP 332WP 148 am 09:30TP 457TP 457TP 466ThP 063 am 10:10MP 062ThP 495 pm 03:30 pm 03:30 pm 03:30MP 716
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey	TOA	ThP 320ThP 350ThP 148TP 427MP 474ThP 228TP 028TP 148TP 332WP 148 am 09:30TP 457TP 457TP 466ThP 063 am 10:10MP 062ThP 495 pm 03:30 pm 03:30MP 148MP 716
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gyon, Mi-ri Gygi, Melanie Gygi, Steve Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven	TOA	ThP 320ThP 350ThP 148ThP 471Th 427MP 474Th 928Th 932WP 148 am 09:30TP 381ThP 451 am 08:50TP 457ThP 456ThP 063 am 09:10 am 10:10MP 062ThP 457 pm 03:30 pm 03:30 pm 03:30MP 418MP 716TP 436
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gyon, Mi-ri Gygi, Melanie Gygi, Steve Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven	TOA	ThP 320ThP 350ThP 148ThP 471Th 427MP 474Th 928Th 932WP 148 am 09:30TP 381ThP 451 am 08:50TP 457ThP 456ThP 063 am 09:10 am 10:10MP 062ThP 457 pm 03:30 pm 03:30 pm 03:30MP 418MP 716TP 436
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William. Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven	TOA WOB MOG	ThP 320ThP 350ThP 148Th 277MP 474ThP 228TP 028TP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 466ThP 063 am 09:10 am 10:10MP 062ThP 395 pm 03:30MP 418MP 716TP 434TP 1434
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven	MOE WOB MOG MOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 028TP 148TP 148TP 228TP 148TP 332MP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 486ThP 063 am 09:10 am 10:10MP 062ThP 495 pm 03:30MP 418MP 716TP 434TP 716 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steven	MOETOAMOG	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127MP 474Th 238TP 148TP 148TP 148Th 238TP 148TP 451Th 451Th 451Th 451Th 451Th 451Th 463Th 463Th 465Th 495Th 434Th 710Th 769Th 434Th 710Th 769Th 7434Th 740Th 7434Th 740Th 740Th 7434Th 740Th 740 .
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steven	MOETOAMOG	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127MP 474Th 238TP 148TP 148TP 148Th 238TP 148TP 451Th 451Th 451Th 451Th 451Th 451Th 463Th 463Th 465Th 495Th 434Th 710Th 769Th 434Th 710Th 769Th 7434Th 740Th 7434Th 740Th 740Th 7434Th 740Th 740 .
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steven	TOA MOE MOG	ThP 320ThP 350ThP 148TP 427MP 474ThP 228TP 128TP 1332WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 466ThP 063 am 10:10MP 062ThP 063 am 10:10MP 148MP 716TP 434TP 710TP 769 pm 03:30TP 769 pm 03:30TP 769TP 769TP 769TP 769TP 769TP 769TP 769TP 630WP 6348WP 731
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Guttenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gwon, Mi-ri Gygi, Steve Gygi, Steven	TOA WOB MOG MOA	ThP 320TP 350ThP 148TP 427MP 474Th 228TP 932WP 148 am 09:30TP 381Th 451 am 08:50TP 486Th 963 am 09:10 am 10:10MP 062MP 063MP 330 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie	TOA WOB MOG MOA	ThP 320ThP 350ThP 148Th 247Th 27MP 474Th 228TP 148Th 232WP 148 am 09:30TP 381ThP 451 am 08:50TP 457Th 466ThP 063 am 09:10 am 10:10MP 062ThP 330MP 418MP 716Th 245 pm 03:30 pm 03:30MP 418MP 716TP 769 pm 03:30WP 648WP 731WP 735 pm 02:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie	TOA WOB MOG MOA	ThP 320ThP 350ThP 148Th 247Th 27MP 474Th 228TP 148Th 232WP 148 am 09:30TP 381ThP 451 am 08:50TP 457Th 466ThP 063 am 09:10 am 10:10MP 062ThP 330MP 418MP 716Th 245 pm 03:30 pm 03:30MP 418MP 716TP 769 pm 03:30WP 648WP 731WP 735 pm 02:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie	MOE WOB MOG MOA MOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 028TP 148TP 148MP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 486ThP 063 am 09:10 am 10:10MP 062ThP 495 pm 03:30MP 418MP 716TP 749 pm 03:30MP 648WP 731WP 735 pm 02:30 pm 02:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Dohan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Dario Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Guttman, Andras. Gutman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gwon, Mi-ri Gygi, Melanie Gygi, Steven	MOEWOBMOGMOAMOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127MP 474Th 238Th 238Th 238Th 245Th 251Th 251Th 251Th 251Th 261Th 261Th 262Th 263Th 263T
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie	MOEWOBMOGMOAMOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127MP 474Th 238Th 238Th 238Th 245Th 251Th 251Th 251Th 251Th 261Th 261Th 262Th 263Th 263T
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Craig Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Gutman, Miklos Guzman, Melissa Guvman, Melissa Guvman, Melissa Gusman, Melissa Gusman	TOAMOEMOBMOAMOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127MP 474Th 238TP 148TP 148TP 148Th 238TP 148TP 148TP 457TP 457TP 486Th 963TP 457TP 486Th 963MP 662ThP 495 pm 03:30 pm 03:30MP 418MP 716TP 434TP 430TP 430TP 430TP 430TP 430TP 430TP 430TP 710TP 735 pm 02:30 pm 02:30 pm 02:30 pm 02:30MP 284MP 565
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafsson, Johan Guttenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Gutterrez, Mathew Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gwon, Mi-ri Gwon, Mi-ri Gygi, Steven Ha, Annie Haack, Alexander Haack, Patrick Haag, Anthony	TOA WOB MOG MOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 932WP 148 am 09:30TP 381Th 451 am 08:50TP 486ThP 063 am 09:10 am 10:10MP 062MP 031MP 332MP 332MP 3330 pm 03:30
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie Haack, Alexander Haack, Patrick Haag, Anthony Haag, Anthony	TOA WOB MOG MOA WOH	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 127WP 148 am 09:30TP 381ThP 451 am 08:50TP 457TP 466ThP 063 am 09:10 am 10:10MP 062ThP 330 pm 03:30 pm 03:30 pm 03:30MP 418MP 716TP 769 pm 03:30 pm 02:30 pm 06:30 pm 06
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Dhan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutmann, Rene Gutmann, Rene Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie Haack, Alexander Haack, Patrick Haag, Anthony Haag, Anthony Haag, Anthony	MOE WOB MOG MOA MOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 028TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 332TP 381ThP 451 am 08:50TP 457TP 486ThP 663 am 09:10 am 10:10MP 062ThP 495 pm 03:30MP 418MP 716TP 769 pm 03:30WP 648WP 731WP 735 pm 02:30 pm 02:30MP 284MP 565MP 031MP 031MP 031MP 031MP 755MP 755
Gurung, Bhupendra Gurung, Dipa Gus, Jeffrey Guss, Adam Gustafson, Elaura Gustafson, Johan Gutenbrunner, Petra Gutheil, William Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Danielle Gutierrez, Mathew Gutierrez, Tomás Gutman, Rene Guttman, Andras Guttman, Miklos Guzman, Melissa Gwon, Mi-ri Gyoi, Melanie Gygi, Steven Ha, Annie Haack, Alexander Haack, Patrick Haag, Anthony Haag, Anthony	MOE WOB MOG MOA MOA	ThP 320ThP 350ThP 148TP 427MP 474Th 228TP 028TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 148TP 332TP 381ThP 451 am 08:50TP 457TP 486ThP 663 am 09:10 am 10:10MP 062ThP 495 pm 03:30MP 418MP 716TP 769 pm 03:30WP 648WP 731WP 735 pm 02:30 pm 02:30MP 284MP 565MP 031MP 031MP 031MP 031MP 755MP 755

Haas, Wilhelm		
	.МОН	am 08:30
Haas, Wilhelm		MP 708
Habben, Jeffrey		ThP 507
Haberl, Peter		
Haberl, Peter		
Haberl, Peter		MP 670
Haberl, Peter		
Haberl, Peter		TP 589
Häberlein, Simone	TOD	am 08:30
Habitz, Tanya		MP 633
Habitz, Tanya		
Habu, Toshiya		
Hackbusch, Sven		
Hackbusch, Sven		
Hackbusch, Sven		
Hackett, Sean		
Hackett, William		
Hadavi, Darya		
Haddad, Andrew		MP 295
Haddad, Francois	. MOE	pm 02:30
Haddad, Francois		ThP 103
Haddad, Francois		
Haegelin, Marc		MP 376
Haegelin, Marc		WP 471
Hafezi, Rameh		ThP 141
Hagelskamp, Felix	TOH	am 09:30
Hageman, Tyler	.WOB	pm 02:30
Hagenoff, Sebastian		
Hägglund, Per		
Hägglund, Per		WP 675
Haghani, Ali		TP 160
Hahne, Hannes		WP 730
Haidacher, Sigmund		MP 031
Haidacher, Sigmund		MP 075
Haidacher, Sigmund		WP 754
Haidar, Zein		ThP 528
Haider, Dar		MP 536
Hail, Mark E		
Haindl, Markus		
Hainsworth, Eugenie		TP 457
Haidu Csaba		ThP 046
Hajdu, Csaba Hakansson Kristina		ThP 046
Hakansson, Kristina		ThP 046 WP 665
Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249
Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249 ThP 109
Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249 ThP 109 WP 185
Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664
Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664 WP 672
Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina Hakansson, Kristina		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664 WP 672
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664 WP 672 WP 448
Hakansson, KristinaHakansson, KristinaHakansson, KristinaHakansson, KristinaHakansson, KristinaHakansson, KristinaHakansson, KristinaHakkila, BlakeHakonarson, HakonHakonHakon		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664 WP 672 WP 448 MP 167
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver		ThP 046 WP 665 MP 249 ThP 109 WP 185 WP 664 WP 672 WP 448 MP 167 ThP 417
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Jean		ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590
Hakansson, Kristina Hakansson, Hakon Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark		ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504
Hakansson, Kristina Hakansson, Hatina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 594MP 150 am 09:30
Hakansson, Kristina Hakansson, Hakina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 672WP 672WP 448MP 167ThP 417ThP 500ThP 504 am 09:30
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 041
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver. Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad	TOG	ThP 046WP 665MP 249WP 109WP 165WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 04:11
Hakansson, Kristina Hakansson, Hakon Hale, Oliver	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417ThP 504MP 150 am 09:30 pm 04:10ThP 041ThP 041
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Wendi Haley, Mark Halim, Mohammad	TOG	ThP 046WP 665MP 249ThP 109WP 186WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 041ThP 468TP 476
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad	TOG ThOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672MP 487ThP 590TP 500TP 500TP 417TP 5417TP 417TP 417TP 447TP 458TP 451
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Haliket, John M. Halket, John M. Hall, Anne	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504ThP 417TP 468TP 471TP 459TP 471TP 459TP 471TP 488TP 471
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halifax, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Haliket, John M Halket, John M Hall, Eric Hall, Maura	TOG	ThP 046WP 665MP 249WP 185WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 417TP 459TP 471TP 459
Hakansson, Kristina Hale, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Jean Haley, Mark Halifax, Mark Halifax, Mark Halim, Mohammad Hallin, Mohammad Hallin, Mohammad Hallin, Mohammad Hall, Anne Hall, Anne Hall, Maura Hall, Maura	TOG ThOG	ThP 046WP 665MP 249WP 109WP 664WP 672WP 468MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 04:17TP 468TP 471TP 539TP 539MP 1539MP 539MP 539
Hakansson, Kristina Hale, Blake Hakonarson, Hakon Hale, Wendi Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Abdul Halim, Mohammad Abdul Hall, Anne Hall, Anne Hall, Fric Hall, Maura Hall, Michael Hall, Michael Hall, Hatricia	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 504TP 504TP 504TP 471TP 539TP 539TP 539MP 452WP 531TP 931
Hakansson, Kristina Hakansson, Hakon Hale, Oliver. Hale, Wendi Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Abdul Halim, Mohammad Abdul Hall, Mohammad Abdul Hall, Mohammad Abdul Hall, Mohammad Abdul Hall, Anne Hall, Maura Hall, Michael Hall, Patricia Hall, Peter	TOG	ThP 046WP 665MP 249WP 185WP 185WP 664WP 667ThP 109MP 167ThP 417TP 500TP 504MP 150MP 150MP 150TP 468TP 471MP 539MP 539MP 452WP 531TP 1083TP 1081
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallin, Hane Hall, Patricia Hall, Patricia Hall, Peter Hall, Shannon	TOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504MP 150 am 09:30 pm 04:10ThP 041TP 471TP 459TP 859TP 471TP 859TP 101TP 101TP 1083TP 101MP 768
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Jean Haley, Mark Halifax, Mark Halifax, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallim, Mohammad Hall, Patricia Hall, Patricia Hall, Patricia Hall, Shannon Hall, Shannon	TOG	ThP 046WP 665MP 249MP 185WP 185WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 417TP 458TP 459TP 539TP 539TP 083TP 083TP 101MP 768TP 101MP 768WP 641WP 6123
Hakansson, Kristina Hakansson, Hakon Hale, Blake Hakonarson, Hakon Hale, Wendi Hale, Jean Haley, Mark Halifax, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallim, Mohammad Hallim, Mohammad Hall, John M Hall, Anne Hall, Anne Hall, Peter Hall, Shannon Hall, Shannon Hall, Stacy Hall, Stacy	TOG	ThP 046WP 665MP 249MP 185WP 185WP 664WP 672WP 448MP 167ThP 417TP 504MP 150 am 09:30 pm 04:10ThP 04:17TP 468TP 471MP 559ThP 539MP 539MP 539MP 539TP 101WP 531TP 083TP 101WP 531WP 641
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Jean Haley, Mark Halifax, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hall, Michael Hall, Anne Hall, Anne Hall, Maura Hall, Michael Hall, Peter Hall, Shannon Hall, Stacy Hall, Stacy Hall, Stacy	TOG ThOG	ThP 046WP 665MP 249WP 109WP 166WP 672WP 468MP 167ThP 417TP 500TP 504MP 150 am 09:30 pm 04:10ThP 04:17TP 468TP 471TP 589TP 589TP 589TP 101WP 531
Hakansson, Kristina Hakansson, Hakon Hale, Oliver Hale, Wendi Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Abdul Halim, Mohammad Abdul Hall, Anne Hall, Anne Hall, Fric Hall, Maura Hall, Peter Hall, Shannon Hall, Stacy	TOG	ThP 046WP 665MP 249WP 185WP 664WP 667MP 167ThP 109MP 167ThP 417TP 500TP 504MP 150MP 150MP 150MP 150MP 150MP 150MP 539MP 531MP 539MP 531MP 538MP 541MP 539MP 541MP 541MP 542MP 542MP 341WP 341WP 341WP 342
Hakansson, Kristina Hakansson, Hakon Hale, Oliver Hale, Wendi Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Abdul Halim, Mohammad Abdul Hall, Anne Hall, Anne Hall, Fric Hall, Maura Hall, Peter Hall, Shannon Hall, Stacy	TOG	ThP 046WP 665MP 249WP 185WP 664WP 667MP 167ThP 109MP 167ThP 417TP 500TP 504MP 150MP 150MP 150MP 150MP 150MP 150MP 539MP 531MP 539MP 531MP 538MP 541MP 539MP 541MP 541MP 542MP 542MP 341WP 341WP 341WP 342
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hall, Michael Hall, Patricia Hall, Patricia Hall, Stacy Hall, Stacy Hall, Stacy Hall, Stacy Hall, Stacy Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom	TOG ThOG	ThP 046WP 665MP 249WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504TP 471TP 488TP 471TP 083TP 101MP 150TP 101MP 342WP 341WP 342WP 341
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Hale, Jean Haley, Mark Halifax, Mark Halifax, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hall, Mohammad Hall, Jetricia Hall, Patricia Hall, Peter Hall, Peter Hall, Shannon Hall, Stacy Hall, Stacy Hall, Stacy Hall, Tom	TOG ThOG	ThP 046WP 665MP 249MP 185WP 664WP 672WP 448MP 167ThP 197ThP 197ThP 417ThP 417ThP 417ThP 417ThP 417ThP 417ThP 417ThP 418ThP 418ThP 359ThP 369ThP 101MP 768WP 641WP 123WP 341WP 342WP 342ThP 368ThP 368
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hall, Michael Hall, Patricia Hall, Patricia Hall, Stacy Hall, Stacy Hall, Stacy Hall, Stacy Hall, Stacy Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom	TOG ThOG	ThP 046WP 665MP 249MP 185WP 664WP 672WP 448MP 167ThP 197ThP 197ThP 417ThP 417ThP 417ThP 417ThP 417ThP 417ThP 417ThP 418ThP 418ThP 359ThP 369ThP 101MP 768WP 641WP 123WP 341WP 342WP 342ThP 368ThP 368
Hakansson, Kristina Hale, Blake Hakonarson, Hakon Hale, Wendi Hale, Jean Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallin, Mohammad Hall, Jeter Hall, Shanon Hall, Stacy Hall, Stacy Hall, Tom Halldiday, Katie Hallvorsen, Trine	TOG ThOG	ThP 046WP 665MP 249WP 185WP 664WP 667MP 167ThP 109MP 150MP 150MP 150MP 150MP 150ThP 041ThP 168ThP 101ThP 101ThP 1035ThP 138ThP 138ThP 138ThP 138ThP 138ThP 138ThP 138ThP 138ThP 158ThP 173ThP 348ThP 348ThP 173ThP 348ThP 348
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallin, Mohammad Halli, Michael Hall, Fric Hall, Maura Hall, Stacy Hall, Stacy Hall, Stacy Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hallday, Katie Hallorsen, Trine	TOG ThOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504MP 150MP 150MP 150TP 471TP 488TP 471MP 539MP 150TP 101MP 539MP 452WP 341TP 1035MP 123WP 342WP 341WP 342MP 179MP 165MP 179MP 165
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver. Hale, Wendi Hale, Jean. Haley, Mark. Halim, Mohammad. Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallin, Mohammad Hall, Jeter Hall, Shannon Hall, Stacy. Hall, Stacy. Hall, Tom Hall, Halliday, Katie. Hallvorsen, Trine	TOG ThOG	ThP 046WP 665MP 249ThP 109WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504MP 150MP 150MP 150TP 471TP 488TP 471MP 539MP 150TP 101MP 539MP 452WP 341TP 1035MP 123WP 342WP 341WP 342MP 179MP 165MP 179MP 165
Hakansson, Kristina Hakkila, Blake Hakonarson, Hakon Hale, Oliver Hale, Wendi Haler, Jean Haley, Mark Halifax, Mark Halim, Mohammad Halim, Mohammad Halim, Mohammad Halim, Mohammad Hallim, Mohammad Hallin, Mohammad Halli, Michael Hall, Fric Hall, Maura Hall, Stacy Hall, Stacy Hall, Stacy Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hall, Tom Hallday, Katie Hallorsen, Trine	TOG ThOG	ThP 046WP 665MP 249MP 185WP 185WP 664WP 672WP 448MP 167ThP 417TP 590TP 504MP 150 am 09:30 pm 04:10ThP 041TP 468TP 471TP 589MP 150 am 19:30 pm 04:10ThP 559MP 559MP 452WP 531TP 101MP 768WP 341WP 342MP 123WP 341WP 342MP 179TP 173TP 1035MP 179MP 179MP 179MP 179MP 179MP 179MP 179MP 179MP 179TP 177TP 177ThP 043

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Han, Shulei	MP 253ThP 176ThP 003ThP 503ThP 084ThP 084TP 396WP 154WP 624WP 622MP 185TP 161TP 312
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Han, Shulei	MP 253ThP 176ThP 503Th 503TP 388TP 388TP 396 DF am 09:30WP 154MP 622MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039TP 156
Han, Shulei	MP 253ThP 176ThP 503Th 503TP 388TP 388TP 396 DF am 09:30WP 154MP 622MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039TP 156
Han, Shulei	MP 253MP 176ThP 176ThP 503TP 388TP 388TP 396 DF am 09:30WP 154MP 624MP 624MP 624MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039
Han, Shulei	MP 253ThP 176ThP 103ThP 503ThP 503TP 388ThP 084TP 396 DF am 09:30WP 154WP 622WP 622MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039WP 462WP 622TP 039ThP 156TP 039TP 150TP 039WP 461TP 039ThP 156TP 039ThP 156
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Han, Shulei	MP 253ThP 176ThP 103Th 903TP 388Th 9084TP 396 DF am 09:30WP 154MP 624MP 624MP 624MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 574 DB am 08:50
Han, Shulei	MP 253ThP 176ThP 103Th 903TP 388Th 9084TP 396 DF am 09:30WP 154MP 624MP 624MP 624MP 185TP 161TP 312 DA am 08:50TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 461TP 039WP 574 DB am 08:50
Han, Shulei	MP 253
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Hark, Timothy	TP 659TP 701WP 166WP 566ThP 351WP 574 WOC pm 03:30MP 294MOH am 08:50MP 604ThP 507
Hark, Timothy	TP 659TP 701WP 166MP 715ThP 722WP 566WP 574 WOC pm 03:30MP 294 .MOH am 08:50MP 604ThP 507TP 470
Hark, Timothy	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574 WOC pm 03:30MP 294MOH am 08:50MP 604ThP 507TP 470MOA pm 03:30
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574WP 574MOA am 08:50MP 604ThP 507TP 470MOA pm 03:30
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574 WOC pm 03:30MP 294 MOH am 08:50MP 604ThP 507TP 470MOA pm 03:30TP 679TP 144
Hark, Timothy	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574 WOC pm 03:30MP 294 .MOH am 08:50MP 604ThP 507TP 470MOA pm 03:30TP 679TP 144TP 017
Hark, Timothy	TP 659TP 701WP 166WP 566WP 566
Hark, Timothy	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574 WOC pm 03:30MP 294MP 604ThP 507TP 470MOA pm 03:30TP 679TP 1470TP 170TP 170 ThOB am 09:10MP 564
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harp, Teresa Harper, J. Wade Harper, J. Wade Harper, J. Wade Harper, Martin Harrahy, John Harrial, Christopher Harrington, Michael Harrington, Peter	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 551WP 571WP 571
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Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harper, J. Wade Harper, J. Wade Harper, J. Wade Harper, J. Wade Harper, Martin Harrahy, John Harrilal, Christopher Harrington, Michael Harrington, Peter Harris, Chris Harris, Glenn Harris, Glenn	TP 659TP 701WP 166
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Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harper, Conner Harper, J. Wade	TP 659TP 701WP 166MP 715ThP 722WP 566ThP 351WP 574 WOC pm 03:30MP 294MOH am 08:50MP 604ThP 579TP 470MOA pm 03:30TP 679TP 144TP 017TP 017ThOB am 09:10MP 564WP 259ThP 558TP 598TP 468TP 468TP 468TP 468
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrial, Christopher Harrington, Michael Harrington, Peter Harris, Glenn Harris, Jack Harris, Jack Harris, Jack Harris, Rachel	TP 659TP 701WP 166MP 715
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrahy, John Harrilal, Christopher Harrington, Michael Harris, Chris Harris, Glenn Harris, Jack Harris, Jack Harris, Rachel Harris, Rachel Harris, Rachel Harris, Raymond	TP 659TP 701WP 166MP 715
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrial, Christopher Harrington, Michael Harrington, Peter Harris, Chris. Harris, Glenn. Harris, Jack Harris, Jacquelyn Harris, Rachel Harris, Raymond Harris, Tahja.	TP 659TP 701WP 166
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Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrial, Christopher Harriaton, Michael Harris, Genn Harris, Glenn Harris, Jack Harris, Jacquelyn Harris, Rachel Harris, Raymond Harris, Tahja Hart, Bradley Hart, Bradley Hart, Jarod Hartigan, Christina Hartland Hartla	TP 659TP 701WP 166MP 715
Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harms, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrahy, John Harrilal, Christopher Harrington, Michael Harrington, Peter Harris, Glenn Harris, Jack Harris, Jack Harris, Rachel Harris, Raymond Harris, Radley Hart, Jarod Hart, Jarod Hartlann, Christina Hart, Bradley Hart, Jarod Hartmann, Conrad Hartmann, Rafael Hartmann, Rafael Hartshon, Kevan Hartson, Steven	TP 659TP 701WP 166MP 715
Hark, Timothy Hark, Timothy Harkey, Gail Harkins, Kristi Harmange, Guillaume Harmon, Alice Harmon, Taylor Harms, Amy Harns, John Haro, Ruben Harp, Christopher Harp, Teresa Harp, Teresa Harper, Conner Harper, J. Wade Harper, J. Wade Harper, Martin Harrahy, John Harrilal, Christopher Harrington, Michael Harrington, Peter Harris, Glenn Harris, Jacquelyn Harris, Rachel Harris, Raymond Harris, Radley Hart, Bradley Hart, Bradley Hart, Jarod Hartigan, Christina Hartmann, Conrad Hartmann, Rafael Hartmer, Ralf Hartshon, Kevan	TP 659TP 701

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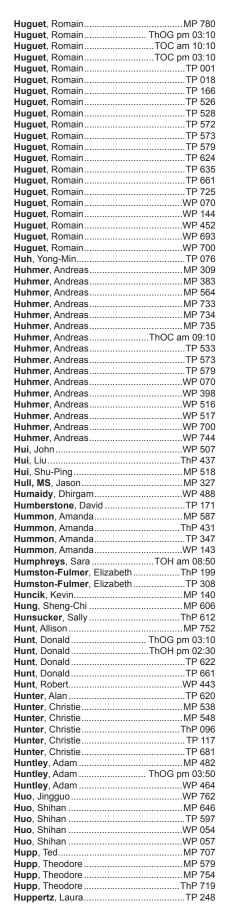
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Jha, Abhishek Ji, Huihua Ji, Jennifer Ji, Qin Ji, Weihua Jia, Echo Jia, Lily Jia, Mengxuan Jia, Mengxuan Jia, Mengxuan Jia, Wei	
Jha, Abhishek	
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Jin, Minye	MP 634
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Jin, Wei	
Jin, Wenhai	
Jin, Xiaoying	WP 523
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Jochem, Adam Jochem, Adam Jockusch, Rebecca Jockusch, Rebecca Jockusch, Rebecca Joh, Sunho Johannsen, Neil Johansson, Sven John, Benzi John, Varghese	. MOA pm 03:50
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Jochem, Adam	. MOA pm 03:50 TP 718 MP 264 TP 340 TP 076 MP 524 ThOD pm 03:30 TP 297 ThP 710 WP 749
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Jochem, Adam	. MOA pm 03:50 TP 718 MP 269 TP 340 TP 076 MP 524 ThOD pm 03:30 TP 297 ThP 710 WP 749 WP 034 WP 034 MP 063
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Jochem, Adam Jochem, Adam Jockusch, Rebecca Jockusch, Rebecca Jokusch, Rebecca Joh, Sunho Johannsen, Neil Johansson, Sven John, Benzi John, Varghese Johnson, Ben Johnson, Britney Johnson, Casey Johnson, Charlene Johnson, Danté Johnson, Erik Johnson, Erik Johnson, James Johnson, James Johnson, James Johnson, James Johnson, Jillian Johnson, Jillian Johnson, Jillian Johnson, Joshua Johnson, Joshua Johnson, Joshua Johnson, Joshua Johnson, Keith Johnson, Kendall Johnson, Mark Johnson, Mark	. MOA pm 03:50TP 718MP 264MP 269TP 340TP 076MP 524 ThOD pm 03:30TP 297ThP 710WP 749WP 034WP 224MP 063WP 129MP 012TP 778MOA pm 04:10 ThOA pm 03:30TP 435TP 438TP 349TP 369WP 651WP 179 ThOG pm 03:30TOG am 09:50ThP 556 ThOB am 08:30WP 473ThP 196
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Johnson, Rod	TP 766
Johnson, Rudolph MC	
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Johnson, Sterling	
Johnson, Tim	MP 768
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Johnston, Carol	
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Jonasson, Jon	
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Jones, Andy	
Jones, Benjamin	
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Jones, Christina	
Jones, Derek	
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Jones, Jeffrey J	
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Jones, Lauren	
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Jones, Marissa	
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Joshi, Apoorva	ThP	064
Jourdat, Catherine	TP	652
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Juba, Melanie		
Judd, Audra	ThP	234
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J. P. D.	IVII	400
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Julian, Ryan	ТР	644
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Juma, Rashid	TP WP MP ThP	212 039 430 144
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Juma, Rashid. Jumhawan, Udi. Juneja, Ankur Jung, Dong-Sub. Jung, Eui-Gil Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Hyeryeon. Jung, Jaesoo Jung, Jieun.	TPWPThPTPTPTPTPTP	212 039 430 144 405 724 044 655 716 655
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Hyeryeon. Jung, Jaesoo Jung, Jieun Jung, Jin woo	TPWPThPTPTPTPTPTP	212 039 430 144 405 724 044 655 716 655 070
Juma, Rashid	TP WP ThP TP TP ThP ThP ThP	212 039 430 144 405 724 044 655 716 655 070 753
Juma, Rashid	TPWPThPTPTPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684
Juma, Rashid	TPWPThPWPTPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732
Juma, Rashid	TPWPThPWPTPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732
Juma, Rashid Jumhawan, Udi Juneja, Ankur Jung, Dong-Sub Jung, Eui-Gil Jung, Hongkyeong Jung, Hyeryeon Jung, Jaesoo Jung, Jieun Jung, Jin woo Jung, Minjoo Jung, Moon Chul Jung, Sung Yun Jung, Sung Yun	TPWPThPVPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo. Jung, Jieun. Jung, Jin woo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun.	TPWPMPTPTPThPThPThPThPThPTP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo. Jung, Jieun. Jung, Jin woo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk.	TPWPMPThPTPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo Jung, Jieun Jung, Jieun Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun Jung, Wonhyeuk Jung, Yeojin	TPWPThPTPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo. Jung, Jieun. Jung, Jin woo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk.	TPWPThPTPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub Jung, Eui-Gil. Jung, Hye Ryeon. Jung, Hyeryeon. Jung, Jaesoo Jung, Jin woo. Jung, Jin woo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yoojin. Jung, Youngwon.	TPWPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717
Juma, Rashid Jumhawan, Udi Juneja, Ankur Jung, Dong-Sub Jung, Eui-Gil Jung, Hyeryeon Jung, Hyeryeon Jung, Jieun Jung, Jieun Jung, Minjoo Jung, Mono Chul Jung, Sung Yun Jung, Sung Yun Jung, Wonhyeuk Jung, Yeojin Jung, Yeojin Jung, Youngwon Jung, Youngwon Jung, Youngwon Jung, Youngwon Jung, Youngwon Jung, Hyeryeon Jung, Jung	TPWPMPThPTPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Youngwon. Jung, Youngwon. Junichi, Masuda. Junior, Cesar.	TPWPMPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240 132
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yeojin. Jung, Youngwon. Junichi, Masuda. Junior, Cesar Junker, Anders.	TPWPMPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240 132 099
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Youngwon. Jung, Youngwon. Junichi, Masuda. Junior, Cesar.	TPWPMPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240 132 099
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yeojin. Jung, Youngwon Junichi, Masuda Junior, Cesar Junker, Anders Junling, Dun.	TPWPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240 132 099 199
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jaesoo Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Yeojin. Jung, Yeojin. Jung, Youngwon. Junichi, Masuda Junior, Cesar. Junker, Anders. Junling, Dun. Junot, Christophe. MOB	TPWPMPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 717 662 655 717 240 132 099 199
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub Jung, Eui-Gil. Jung, Hye Ryeon. Jung, Hye Ryeon. Jung, Jing, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yoojin. Jung, Youngwon. Junichi, Masuda. Junior, Cesar. Junker, Anders. Junling, Dun. Junot, Christophe. MOB	TPWPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 717 240 132 099 199 3:50 095
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hyeryeon. Jung, Hyeryeon. Jung, Jieun. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Mon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yeojin. Jung, Youngwon. Junichi, Masuda Junior, Cesar. Junker, Anders. Junion, Christophe. Junot, Christophe. Junot, Christophe.	TPWPThP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 717 240 132 099 199 3:50 095 581
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jieun. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Youngwon. Jung, Youngwon. Junichi, Masuda Junior, Cesar Junker, Anders. Junling, Dun. Jundt, Christophe. Junto, Christophe. Junto, Christophe. Jundo-Campos, Natividad.	TPWPThPThPWPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 675 665 777 777 662 655 717 240 039 93:50 99 3:50 581 308
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hyeryeon. Jung, Hyeryeon. Jung, Jieun. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Mon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk. Jung, Yeojin. Jung, Youngwon. Junichi, Masuda Junior, Cesar. Junker, Anders. Junion, Christophe. Junot, Christophe. Junot, Christophe.	TPWPThPThPWPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 675 665 777 777 662 655 717 240 039 93:50 99 3:50 581 308
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jieun. Jung, Jieun. Jung, Jieun. Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun. Jung, Sung Yun. Jung, Sung Yun. Jung, Youngwon. Jung, Youngwon. Jung, Youngwon. Jung, Youngwon. Junichi, Masuda. Junior, Cesar. Junker, Anders. Junling, Dun. Junot, Christophe. Junot, Christophe. Junot, Christophe. Jundo-Campos, Natividad. Jurewicz, Mollie.	TPWPThPThPWPThPThPThPThPThPThPThPThPThPThPThPThPThP	212 039 430 144 405 724 044 655 070 753 684 732 700 717 662 655 717 240 132 099 93:50 93:50 93:50 93:50 93:50 93:50 93:50 93:50 93:50 94 94:50 94 94 9
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil Jung, Hongkyeong. Jung, Hye Ryeon. Jung, Jesoo. Jung, Jieun Jung, Jieun Jung, Minjoo. Jung, Minjoo. Jung, Moon Chul. Jung, Sung Yun Jung, Sung Yun Jung, Sung Yun Jung, Sung Yun Jung, Yeojin Jung, Yeojin Jung, Youngwon Junichi, Masuda Junior, Cesar. Junker, Anders. Juniot, Christophe Junot, Christophe Junot, Christophe Junot, Christophe Jurado-Campos, Natividad Jurewicz, Mollie Just, Seth.	TPWPThPTPTPTPTPTPTPTPTPTPTPTPTPTP	212 039 430 144 405 724 044 655 716 655 070 753 684 732 700 199 3:50 095 199 3:50 581 3395
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur	TPWPThP	212 039 430 144 405 724 044 655 716 655 070 717 662 655 717 240 099 199 3:50 095 581 308 395 096
Juma, Rashid. Jumhawan, Udi. Juneja, Ankur. Jung, Dong-Sub. Jung, Eui-Gil. Jung, Hyeryeon. Jung, Hyeryeon. Jung, Jieun Jung, Jieun Jung, Minjoo. Jung, Minjoo. Jung, Sung Yun. Jung, Sung Yun. Jung, Wonhyeuk Jung, Yeojin. Jung, Youngwon. Junichi, Masuda Junior, Cesar. Junker, Anders. Juning, Dun. Junot, Christophe. Junot, Christophe Juste, Seth. Juste, Catherine. K. Dey, Sudhansu	TPWPThP	212 039 430 144 405 716 655 070 753 662 655 717 240 099 199 3:50 095 581 308 108 395 096 257
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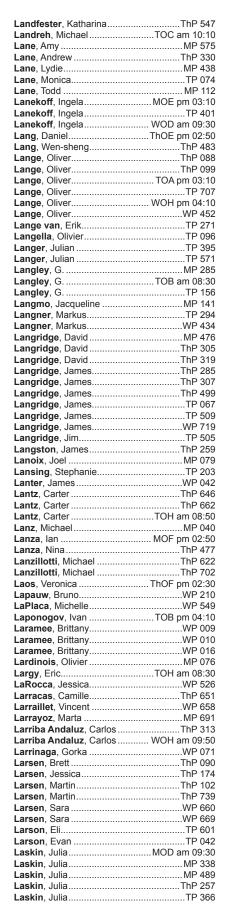
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Kumar, Mukesh	MP 548ThP 772 .MOA pm 04:10MP 758 ThOA pm 03:30TP 435TP 438MP 098TP 553TP 553
Kumar, Mukesh	MP 548ThP 772 .MOA pm 04:10MP 758 ThOA pm 03:30TP 435TP 438MP 098TP 553TP 553
Kumar, Mukesh	MP 548
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Kumar, Mukesh	MP 548ThP 772 .MOA pm 04:10 .MP 758 .ThOA pm 03:30TP 435TP 438MP 098TP 553TP 695WP 094TP 438TP 438TP 438TP 464WP 646WP 479ThP 602WP 389WP 632
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Kumar, Mukesh	MP 548ThP 772 .MOA pm 04:10MP 758ThOA pm 03:30TP 435TP 438MP 098TP 553TP 695WP 094TP 435TP 438TP 064WP 646WP 646WP 479ThP 602WP 389WP 632ThP 510
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Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiko, Victor Laikupu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lamann, Karsten Lamarche, Benoit Lambeir, Anne-Marie Lambeth, Tyler Lame, Mary	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 115MP 725MOD pm 02:50WOC am 10:10ThP 373ThP 794TOC am 09:10TP 706TOE pm 02:50ThP 492ThP 644TP 644WP 657MP 655
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laikis, Mason Laing, Matthew Lajoie, Gilles Lakshminarayana, Suresh Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Maggie Lam, Pui Yiu Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lamarche, Benoit Lambeir, Anne-Marie Lambeth, Tyler Lambeth, Tyler Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lame, Mary Laikis, Evagelia Laikis,	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 360TP 360TP 360TP 360TP 360TP 725MOD pm 02:50WOC am 10:10TP 734ThP 094TOC am 09:10TP 706TP 706TP 492ThP 492ThP 640TP 644WP 655MP 655ThP 368
Lai, Szu-Hsuehai, Yen-Chun Laiakis, Evageliaaiakis, Evageliaaiko, Victor Laikupu, Masonaing, Matthew Lajoie, Gilles Lakshminarayana, Sureshal, Swapnilam, Maggie Lam, Patriciaam, Pui Yiu Lam, Pui Yiu Lam, Richardam, Tukiet Tam, Yuko Lam, Yuko Lamann, Karsten Lamarche, Benoit Lambeth, Tyler Lambeth, Tyler Lame, Mary Lame, Mary Lamers, Robert Jan	ThP 041WP 742WOF pm 02:30WP 351TP 446TP 925ThP 081WP 076TP 360TP 360TP 360TP 360TP 360TP 360TP 360TP 360TP 360TP 360ThP 115MP 725MOD pm 02:50WOC am 10:10ThP 734ThP 094TOC am 09:10TP 760TP 640TP 640TP 644WP 655ThP 368MP 196
Lai, Szu-Hsuehai, Yen-Chun Laiakis, Evageliaaiakis, Evageliaaiko, Victor Laiakis, Evageliaaiko, Victor Laikupu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Pui Yiu Lam, Pichard Lam, Tukiet T Lam, Yuko Lam, Yuko Lam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lamarche, Benoit Lambeir, Anne-Marie Lambeth, Tyler Lambeth, Tyler Lame, Mary Lame, Mary Lamers, Robert Jan Lammert, Stephen	
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laikipu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Richard Lam, Pui Yiu Lam, Richard Lam, Yuko Lam, Yuko Lam, Yuko Lamn, Yuko Lamn, Karsten Lambeth, Tyler Lambeth, Tyler Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Stephen Lammert, Stephen Lammert, Stephen Lammert, Stephen	ThP 041WP 742WOF pm 02:30WP 351
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laikipu, Mason Lain, Matthew Lajoie, Gilles Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lam, Yuko Lamann, Karsten Lamarche, Benoit Lambeir, Anne-Marie Lambeth, Tyler Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Steyee	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 360TP 360TP 373TP 373ThP 734ThP 094TOC am 09:10TP 706TOE pm 02:50ThP 492ThP 640TP 644WP 657MP 655ThP 368MP 196MP 486TP 452TP 452
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laikis, Mason Lailis, Matthew Lailis, Maglie Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Patricia Lam, Pui Yiu Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Tukiet T Lam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lambeir, Anne-Marie Lambeir, Anne-Marie Lambeth, Tyler Lambeth, Tyler Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 360TP 360TP 373TP 373ThP 734ThP 091TP 706TP 492ThP 640TP 640TP 640TP 640TP 640TP 640TP 640TP 452TP 473TP 759
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laikis, Mason Lailis, Matthew Lailis, Maglie Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Patricia Lam, Pui Yiu Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Tukiet T Lam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lambeir, Anne-Marie Lambeir, Anne-Marie Lambeth, Tyler Lambeth, Tyler Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 360TP 360TP 373TP 373ThP 734ThP 091TP 706TP 492ThP 640TP 640TP 640TP 640TP 640TP 640TP 640TP 452TP 473TP 759
Lai, Szu-Hsuehai, Yen-Chun Laiakis, Evageliaaiakis, Evageliaaiko, Victor Laikupu, Masonaing, Matthew Lajoie, Gillesake, Douglasakshminarayana, Sureshal, Swapnilal, Swapnilam, Maggie Lam, Patriciaam, Maggie Lam, Pui Yiuam, Pui Yiuam, Pui Yiuam, Richardam, Tukiet Tam, Yuko Lam, Yuko Lam, Yuko Lamann, Karsten Lambeir, Anne-Marie Lambeir, Anne-Marie Lambeth, Tyler Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic Lamy, Shannon	ThP 041WP 742WOF pm 02:30WP 351TP 446TP 446ThP 025ThP 081TP 367TP 368TP 115MP 725MOD pm 02:50TP 734ThP 094TP 706TP 706TP 706TP 492TP 464TP 644WP 655TP 458MP 196MP 486TP 452TP 473TP 759MP 207
Lai, Szu-Hsuehai, Yen-Chun Laiakis, Evageliaaiakis, Evageliaaiakis, Evageliaaiko, Victor Laikupu, Mason	
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laikipu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lameth, Tyler Lambeth, Tyler Lambeth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lammett, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic Lamy, Chunyan Lan, Chunyan Lan, Chunyan Lan, Chunyan Lan, Chunyan	ThP 041WP 742WOF pm 02:30WP 351
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laikipu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Pui Yiu Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lam, Yuko Lamann, Karsten Lamarche, Benoit Lambeth, Tyler Lambeth, Tyler Lame, Mary Lame, Mary Lame, Mary Lame, Mary Lamers, Robert Jan Lammert, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic Lan, Chunyan	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 367TP 725MOD pm 02:50WOC am 10:10ThP 373ThP 734ThP 034TOC am 09:10TP 766TOE pm 02:50ThP 492ThP 644WP 657TP 448WP 657TP 452TP 473TP 759MP 207TP 474TP 474TP 474TP 474TP 474TP 474TP 474TP 474TP 474TP 474
Lai, Szu-Hsueh Lai, Yen-Chun Laiakis, Evagelia Laiakis, Evagelia Laiakis, Evagelia Laikipu, Mason Laing, Matthew Lajoie, Gilles Lake, Douglas Lake, Douglas Lakshminarayana, Suresh Lal, Swapnil Lalor, Patricia Lam, Maggie Lam, Pui Yiu Lam, Richard Lam, Tukiet T Lam, Yuko Lameth, Tyler Lambeth, Tyler Lambeth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lameth, Tyler Lammett, Stephen Lammert, Stephen Lammert, Steve Lamoliatte, Frederic Lamy, Chunyan Lan, Chunyan Lan, Chunyan Lan, Chunyan Lan, Chunyan	ThP 041WP 742WOF pm 02:30WP 351TP 446ThP 025ThP 081WP 076TP 360TP 360TP 360TP 360TP 373TP 360ThP 115WP 076TP 373ThP 734ThP 734ThP 734ThP 694TP 492ThP 644WP 657MP 655ThP 368MP 196MP 486TP 452TP 473TP 759MP 207TP 404TP 414WP 362TP 474



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Laskin, Julia	WP 458
Laskowich, Erin	INP 6/3
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L atkin , Thomas	.TOE am 09:10
au , Adam	ThP 490
Lau, Ho-Tak	MP 700
Lau. Jim	ThP 606
Lau, Ming Yip	MP 089
Lauber, Matthew	TP 003
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Lauc, Gordan	ThP 218
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Laukens, Kris	TP 762
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Laurens, Lieve	MP 528
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Laurent, Gilles	TP 395
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Lavallée, Richard	ThP 759
Lavallée-adam, Mathieu	MP 372
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Lavarello, Chiara	ThP 484
Laverdure, Jean-Philippe	MP 079
Lavielle, Marc Lavrova, Oxana	WP 390
Law, Brandon	IP 700
Law, Richard	
Law, Richard	WP 324
Lawal, Remilekun	MOG pm 03:10
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Lawas, Maria	MP 204
Lawit. Shai	ThP 507
Lawler, John	MP 275
Lawler, Rose	MP 300
Lawler, Rose	WP 639
Lawlor, Michael	IP /04
Lawrence, Joseph Lawrence, Richard	INP 169
Lawrie, Justin	VP 504
Laws, Simon	MOE am 10:10
Laws, Ollifor	WOL all 10.10
Lawson Graham	MP 221
Lawson, Graham Lawson, Joshua Lawton, Zachary	ThP 120
Lawson, Joshua Lawton, Zachary Lawton, Zachary	ThP 120 MP 208 TP 456
Lawson, Joshua Lawton, Zachary Lawton, Zachary Lavcock. John	ThP 120MP 208TP 456
Lawson, Joshua Lawton, Zachary Lawton, Zachary Laycock, John Layfield, Robert	ThP 120 MP 208 TP 456 ThP 373
Lawson, Joshua Lawton, Zachary Lawton, Zachary Laycock, John Layfield, Robert	ThP 120MP 208TP 456ThP 373TP 024
Lawson, Joshua Lawton, Zachary Laycock, John Layfield, Robert Layman, Rick Layton, Kent	ThP 120ThP 456ThP 373TP 024TP 399TP 473
Lawson, Joshua Lawton, Zachary Laycock, John Layfield, Robert Layman, Rick Layton, Kent	ThP 120
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 TP 130
Lawson, Joshua	ThP 120 MP 208 TP 420 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 130
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 495
Lawson, Joshua Lawton, Zachary Layton, Zachary Laycock, John Layfield, Robert Layman, Rick Layton, Kent Lazar, Iulia Lazarev, Alexander Le, Anh Le, John Le, Nhat	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 495 WP 739
Lawson, Joshua Lawton, Zachary Layton, Zachary Laycock, John Layfield, Robert Layman, Rick Layton, Kent Lazar, Iulia Lazar, Iulia Lazarev, Alexander Le, Anh Le, John Le, Nhat Le, X. Chris	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 493 WP 739 WP 664 MP 123
Lawson, Joshua	ThP 120 MP 208 TP 420 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 495 WP 739 WP 664 MP 123 TP 020
Lawson, Joshua Lawton, Zachary Lawton, Zachary Laycock, John Layfield, Robert Layman, Rick Layton, Kent Lazar, Iulia Lazarev, Alexander Le, Anh Le, John Le, Nhat Le, X. Chris Le Bihan, Thierry Le Bihan, J. C. Yves	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 140 TP 495 WP 739 WP 664 MP 123 TP 020 TP 207
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 495 WP 739 WP 664 MP 123 TP 020 TP 207
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 495 WP 739 WP 664 MP 123 TP 020 TP 276 MP 305 TP 276
Lawson, Joshua	ThP 120 MP 208 TP 420 TP 473 TP 024 TP 379 TP 473 TP 130 TP 130 TP 495 WP 739 WP 664 MP 123 TP 207 TP 207 TP 754 MP 308
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 495 WP 739 WP 664 MP 123 TP 020 TP 207 TP 754 MP 305 TP 618 TP 618 TP 758
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 WP 739 WP 739 WP 664 MP 123 TP 020 TP 207 TP 754 MP 305 TP 618 TP 758 TP 758
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 040 TP 495 WP 739 WP 664 MP 123 TP 020 TP 207 TP 275 MP 305 TP 618 TP 748 TP 754 MP 305 MP 179 MP 305 MP 618
Lawson, Joshua	ThP 120 MP 208 TP 456 ThP 373 TP 024 TP 399 TP 473 ThP 671 TP 130 TP 495 WP 739 WP 664 MP 123 TP 020 TP 207 TP 754 MP 305 TP 749 TP 588 ThP 058 ThP 287

Leach, Samantha	ThP 530
Leach III, Franklin E	MP 566
Leach III, Franklin E	ThD 400
Leach III, Flanklin E	1117 400
Leach lii, Franklin E	MP 141
Leach lii, Franklin E	ThP 445
Leach lii, Franklin E	\M/D 103
Leat Mandala	TD 005
Leal, Mauricio	IP 085
Leal, Stephanie	WP 680
Leaptrot, Katrina	MOF nm 03:30
Leaptiot, Katilia	WOL PIII 00.50
Leaptrot, Katrina	. ThOA am 08:50
Leary, Dagmar	ThP 110
Leary, Maggie	TD 126
Leary, Maggie	
Leary, Pauline	MP 208
Lebedev, Albert	TOE am 09:10
Lebedev, Albert	TD 301
Lebedev, Albert	
Lebedev, Albert	WP 320
LeBlanc, Andre	ThOF am 09:10
Lebrilla, Carlito	MOC am 00:10
Lebrilla, Carlito	MOC pm 03:10
Lebrilla, Carlito	ThOG am 10:10
Lebrilla, Carlito	ThD 066
Lebina, Canto	TID 000
Lebrilla, Carlito	INP 085
Lebrilla, Carlito	ThP 202
Lebrilla, Carlito	ThP 210
Labrilla Carlita	
Lebrilla, Carlito	VVP 080
Lebrilla, Carlito	WP 263
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Lebrilla, Carlito	
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Lech, Katarzyna	WP 737
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Leclaire, Jennifer	MD 400
Leciaire, Jennilei	IVIP 420
Leclercq, Mickael	TP 647
Ledertheil, Thorsten	TP 514
Ledet, Suzanne	ThOE am 00:50
Ledet, Suzanne	1110F alli 09.50
Leduc, Richard	MP 024
LeDuc, Richard	MP 375
Ladre Dishard	
	MD 770
Leduc, Richard	MP 779
Leduc, Richard	TOC pm 02:30
Leduc, RichardLeDuc, Richard	TOC pm 02:30
Leduc, RichardLeDuc, Richard	TOC pm 02:30
Leduc, Richard LeDuc, Richard Leduc, Richard	TOC pm 02:30 TP 725 TP 325 TP 325
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard	TOC pm 02:30 TP 725 . WOC am 08:30 WP 222
Leduc, Richard	TOC pm 02:30 TP 725 .WOC am 08:30 WP 222 ThP 111
Leduc, Richard	TOC pm 02:30 TP 725 WOC am 08:30 WP 222 ThP 111
Leduc, Richard	TOC pm 02:30 TP 725 WOC am 08:30 WP 222 ThP 111
Leduc, Richard	TOC pm 02:30 TP 725 WOC am 08:30 WP 222 ThP 111 MP 671
Leduc, Richard	TOC pm 02:30 TP 726 WOC am 08:30 ThP 111 ThP 671 ThP 040
Leduc, Richard	TOC pm 02:30 TP 725 WOC am 08:30 WP 222 MP 67' TP 075 Th 046 Th 944
Leduc, Richard	TOC pm 02:30 TP 725 WOC am 08:30 WP 222 MP 67' TP 075 Th 046 Th 944
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Chuping Lee, Cindy	TOC pm 02:30TP 72: WOC am 08:30WP 22:ThP 11:MP 67:TP 040ThP 530
Leduc, Richard. LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton. Lee, Chen-Hsien Lee, Chuping. Lee, Chuping. Lee, Cindy Lee, Colin	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 07:TP 07:Th 540TP 17:Th 604
Leduc, Richard. LeDuc, Richard Leduc, Richard. Lee, Brittany. Lee, Burton. Lee, Chen-Hsien Lee, Chuping. Lee, Chuping. Lee, Cindy. Lee, Colin Lee, Dabin	TOC pm 02:30TP 72: WOC am 08:30
Leduc, Richard. LeDuc, Richard Leduc, Richard. Lee, Brittany. Lee, Burton. Lee, Chen-Hsien Lee, Chuping. Lee, Chuping. Lee, Cindy. Lee, Colin Lee, Dabin	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67'TP 07:ThP 040TP 17:ThP 60ThP 422
Leduc, Richard	TOC pm 02:30 TP 72: WOC am 08:30 WP 222 ThP 11: MP 67: TP 07: ThP 53: TP 17: ThP 50: ThP 60: ThP 42: WP 67:
Leduc, Richard	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 07:ThP 040ThP 530TP 17:ThP 604ThP 604ThP 604ThP 422WP 673
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Colin Lee, Dabin Lee, Dave Lee, Do Young Lee, Do Yup	TOC pm 02:30TP 72: WOC am 08:30WP 22:ThP 11:MP 67'TP 07:ThP 040ThP 530TP 17'ThP 604ThP 42:WP 67:ThP 444
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Birthary Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Da Young Lee, Do Yup Lee, Do Yup Lee, Do Yup	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 07:ThP 040ThP 530TP 17:ThP 604ThP 422WP 67:ThP 125
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Birthary Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Da Young Lee, Do Yup Lee, Do Yup Lee, Do Yup	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 07:ThP 040ThP 530TP 17:ThP 604ThP 422WP 67:ThP 125
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Birthard Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Da Young Lee, Do Yup Lee, Do Yup Lee, Do Yup Lee, Dong Ho	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 07:ThP 530TP 17:ThP 604ThP 422WP 67:ThP 1444MP 01:
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Colin Lee, Dabin Lee, Dave Lee, Do Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Yeol	TOC pm 02:30TP 72: WOC am 08:30
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Colin Lee, Dabin Lee, Dave Lee, Do Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Yeol	TOC pm 02:30TP 72: WOC am 08:30
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Dave Lee, Do Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Ho Lee, Edgar	TOC pm 02:30TP 72: WOC am 08:30
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Colin Lee, Dabin Lee, Do Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Yeol Lee, Dogar Lee, Dong Yeol Lee, Edgar Lee, Eugene	TOC pm 02:30TP 72: WOC am 08:30WP 22:ThP 11:MP 67:ThP 040ThP 530TP 17:ThP 604ThP 424WP 67:ThP 144ThP 145ThP 444MP 015MP 15:TP 47:WP 724
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Bithard Lee, Bithary Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Chuping Lee, Colin Lee, Dabin Lee, Dave Lee, Do Young Lee, Do Yup Lee, Dong Ho Lee, Dong Ho Lee, Dong Ho Lee, Edgar Lee, Eugene Lee, Eugene Lee, Eun Mi	TOC pm 02:30TP 72: WOC am 08:30WP 22:ThP 11:MP 67:ThP 040ThP 530TP 17:ThP 60ThP 42:WP 42:WP 67:ThP 144MP 01:MP 15:TP 47:WP 72WP 72ThP 12:
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Da Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Ho Lee, Edgar Lee, Eugene Lee, Eug Mi Lee, Ha Yun	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 076ThP 530TP 17:ThP 604ThP 422WP 673ThP 142MP 615ThP 142MP 156TP 473WP 722WP 099
Leduc, Richard LeDuc, Richard Leduc, Richard Leduc, Richard Lee, Brittany Lee, Burton Lee, Chen-Hsien Lee, Chuping Lee, Cindy Lee, Colin Lee, Dabin Lee, Da Young Lee, Do Yup Lee, Do Yup Lee, Dong Ho Lee, Dong Ho Lee, Edgar Lee, Eugene Lee, Eug Mi Lee, Ha Yun	TOC pm 02:30TP 72: WOC am 08:30WP 222ThP 11:MP 67:TP 076ThP 530TP 17:ThP 604ThP 422WP 673ThP 142MP 615ThP 142MP 156TP 473WP 722WP 099
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Li, Linfan Li, Ling Li, Linge Li, Lingjun	TP .MP ThPTP .WP .MP .MP .MP .MP .MP ThP ThPTPTPTPTPTP	696 715 491 019 577 286 585 615 767 3:50 9:50 0219 325 385 527 049 050 087 349 358 369 373 503 512
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun. Li, Lingjun. Li, Lingjun. ThOC a Li, Lingjun.	TP .MP ThP .WP .MP .MP .MP .MP .MP ThP ThP ThPTPTPTPTPTP	696 715 491 019 577 286 585 615 767 3:50 219 325 385 527 049 050 349 358 369 373 503 512 519
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun. Li, Lingjun. Li, Lingjun. ThOC a Li, Lingjun.	TP .MP ThPTP .WP .MP .MP .MP .MP ThP ThPTPTPTPTPTPTP	696 715 491 019 577 286 585 615 767 3:50 2:19 325 385 504 9050 008 349 358 369 373 503 512 519
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun. Li, Lingjun. Li, Lingjun. ThOC a Li, Lingjun.	TP .MP ThPTP .WP .MP .MP .MP .MP ThP ThPTPTPTPTPTPTP	696 715 491 019 577 286 585 615 73:50 9:50 9:50 9:50 9:50 9:50 9:50 9:50 9
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun.	TP .MP ThPTP .WP .MP .MP .MP .MP .MP .MP .ThP ThP ThPTPTPTPTPTP	696 715 491 019 577 286 5615 767 3:50 219 325 385 527 0050 087 349 358 369 373 503 512 519 140 141 144 148 148 148
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun	TP .MP ThPTP .MP .MP .MP .MP .MP .MP .MP .MP .ThPTPTPTPTPTPTPT	696 715 491 019 577 6585 615 767 33:50 219 33:50 050 087 349 3369 373 503 512 519 140 181 485 577
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun	TP .MP ThPTPMP .MP .MP .MP .MP .MP .MP .MP .MP .	696 715 491 019 577 6585 615 767 3:50 219 3385 527 049 050 087 349 358 369 373 512 519 140 181 194 485 577 643
Li, Linfan. Li, Ling. Li, Linge. Li, Lingjun. Li, Lingjun	TP .MP ThPTP .MP .MP .MP .MP .MP .MP .MP .MP .MP .M	696 715 491 019 286 585 615 767 3:50 9:219 325 385 527 049 0087 349 358 369 373 503 5519 140 181 194 485 665 665 665

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Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian. Qiaoxia Qiaoxia Qingqing. Qixin. Qixin. Ranran. Renmeng. Roger (Xiaoran). Rui. Sherry. Siqi Siqi Siqi Siqi Siqi Siqi Siqi Siq	. TOF	WP 504ThP 663ThP 186ThP 186ThP 120WP 046TP 441WP 403ThP 653ThP 557MP 004MP 751MP 751MP 721ThP 100TP 624WP 201MP 682WP 618
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Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian. Qiaoxia Qiaoxia Qingqing. Qixin. Qixin. Ranran. Renmeng. Roger (Xiaoran). Rui. Sherry. Siqi Siqi Siqi Siqi Siqi Siqi Siqi Siq	. TOF	WP 504ThP 663ThP 186ThP 186ThP 180TP 020WP 046TP 441WP 403ThP 653ThP 557MP 004MP 751MP 781MP 781TP 624WP 201TP 682TP 618
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian. Qiaoxia Qiaoxia Qingqing. Qixin. Qixin. Ranran. Renmeng. Roger (Xiaoran). Rui. Sherry. Siqi Siqi Siqi Siqi Siqi Siqi Siqi Siq	. TOF	WP 504ThP 663ThP 186ThP 186ThP 120WP 046TP 441WP 403ThP 653ThP 557MP 004MP 751MP 751MP 721ThP 100TP 624WP 201MP 682WP 618
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Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian. Qiaoxia Qingqing. Qixin. Qixin. Ranran. Renmeng. Roger (Xiaoran). Rui. Sherry. Siqi. Siqi. Siqi. Siqi. Siqi. Siqi. Siqi. Stanley. Suya. Tao. Tao. <th>. TOF</th> <th>WP 504ThP 663ThP 186ThP 186MP 123TP 020WP 046TP 441WP 403ThP 653 am 09:10ThP 527ThP 755MP 081MP 201ThP 100TP 624WP 201MP 682TP 618WP 463 am 08:50ThP 113ThP 701 am 10:10</th>	. TOF	WP 504ThP 663ThP 186ThP 186MP 123TP 020WP 046TP 441WP 403ThP 653 am 09:10ThP 527ThP 755MP 081MP 201ThP 100TP 624WP 201MP 682TP 618WP 463 am 08:50ThP 113ThP 701 am 10:10
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Ranran Renmeng Roger (Xiaoran) Rui Sherry Siqi Taqi Tao	. TOF	WP 504ThP 663ThP 186ThP 186ThP 196ThP 040ThP 441ThP 653 am 09:10ThP 557MP 004ThP 653MP 701ThP 100ThP 650MP 701ThP 100ThP 624WP 201ThP 682ThP 683 am 08:50ThP 113ThP 701 am 10:10
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Ranran Renmeng Roger (Xiaoran) Rui Sherry Siqi Taqi Tao	. TOF	WP 504ThP 663ThP 186ThP 186WP 103TP 020WP 046TP 441WP 403ThP 653 am 09:10ThP 527ThP 755MP 004MP 721ThP 100TP 624WP 201TP 682WP 483 am 08:50ThP 113ThP 701 am 10:10
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Ranran Renmeng Roger (Xiaoran) Rui Sherry Siqi Taqi Tao	. TOF	WP 504ThP 663ThP 186ThP 186WP 103TP 020WP 046TP 441WP 403ThP 653 am 09:10ThP 527ThP 755MP 004MP 721ThP 100TP 624WP 201TP 682WP 483 am 08:50ThP 113ThP 701 am 10:10
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Ranran Renmeng Roger (Xiaoran) Rui Sherry Siqi Taqi Tao	. TOF	WP 504ThP 663ThP 186ThP 186ThP 196ThP 040ThP 441ThP 653 am 09:10ThP 557MP 004ThP 653MP 701ThP 100ThP 650MP 721ThP 100ThP 624WP 201ThP 682ThP 683 am 08:50ThP 113ThP 701 am 10:10
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Ranran Renmeng Roger (Xiaoran) Roger (Xiaoran) Rui Sherry Siqi Tan Tao Tao Tao Tian Ting Tong	.TOF	WP 504ThP 663ThP 186MP 123ThP 120WP 046TP 441WP 403ThP 653 am 09:10ThP 555MP 004MP 081MP 751MP 751MP 682ThP 682TP 618WP 201MP 681WP 110ThP 100ThP 101MP 701MP 701MP 701MP 701
Liu, Liu, Liu, Liu, Liu, Liu, Liu, Liu,	Qian Qiaoxia Qingqing Qixin Qixin Qixin Ranran Renmeng Roger (Xiaoran) Rui Sherry Siqi Tane Tao Tao Tao Tao Tao Tian Ting Tong Tong	.TOF	WP 504ThP 663ThP 186MP 123ThP 046TP 441WP 046TP 450ThP 553MP 004ThP 555MP 004MP 755MP 004MP 811MP 721ThP 102ThP 620ThP 618WP 201MP 682TP 618WP 201MP 682TTP 618WP 201MP 682ThP 102MP 682ThP 103ThP 701 am 10:10WP 097MP 070WP 514TP 641
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Liu, Yue Liu, Yue Liu, Zhao	MP 271 .ThOB am 10:10
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Liu, Yue Liu, Zhao Liu, Zhen Liu, Zhen Liu, Zhiwei Liu, Zhongshan	MP 271 .ThOB am 10:10 TP 227 TP 555 .WOD pm 03:30 TOE am 08:50
Liu, Yue	MP 271 .ThOB am 10:10TP 227TP 555 .WOD pm 03:30TOE am 08:50MOB pm 03:50
Liu, Yue	MP 271 .ThOB am 10:10TP 227TP 555
Liu, Yue Liu, Zhao Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw. Wan Tung	MP 271 .ThOB am 10:10TP 227TP 555 .WOD pm 03:30TOE am 08:50MOB pm 03:50MP 682
Liu, Yue Liu, Zhao Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw. Wan Tung	MP 271 .ThOB am 10:10TP 227TP 555 .WOD pm 03:30TOE am 08:50MOB pm 03:50MP 682
Liu, Yue Liu, Zhao Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara	MP 271 .ThOB am 10:10TP 227TP 555 .WOD pm 03:30TOE am 08:50MOB pm 03:50MP 682ThP 761
Liu, Yue Liu, Zhao Liu, Zhen Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara Liyanage, Tara Liyanage, Tara	MP 271 ThOB am 10:10
Liu, Yue Liu, Zhao Liu, Zhao Liu, Zhiwei Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara Liyanage, Tara Liewellyn, Eliza.	MP 271 ThOB am 10:10
Liu, Yue Liu, Zhao Liu, Zhao Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara Liyanage, Tara Liyanage, Tara Llewellyn, Eliza Llewellyn, Nevillee	MP 271 ThOB am 10:10
Liu, Yue Liu, Zhao Liu, Zhao Liu, Zhen Liu, Zhiwei Liu, Zhongshan Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara Liyanage, Tara Llewellyn, Eliza Llewellyn, Nevillee Lloyd, Thomas	MP 271 ThOB am 10:10
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Liu, Yue Liu, Zhao Liu, Zhao Liu, Zhon Liu, Zhongshan Livet, Sandrine Livet, Sandrine Livingstone, Julie Liw, Wan Tung Liyanage, Tara Liyanage, Tara Llewellyn, Eliza Llewellyn, Nevillee Lloyd, Thomas Lloyd-Jones, Donald Lobas, Anna Lobinski, Ryszard Lobinski, Ryszard Lobinski, Ryszard Lobue, Peter Lobue, Peter Lobue, Peter Lobue, Peter Lobue, Peter Lobusheva, Irina Locard-Paulet, Marie Lock, Christopher.	MP 271 ThOB am 10:10
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Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lynn, Reed Lyon, Yana Lyons, Gaelyn Lyssiotis, Costas Lyssiotis, Costas Lytle, Cory Lyu, Qiang Lyu, Qiang Ma, Bin	WP 007 TP 764 TP 442 MP 106 MP 111 WP 252 MP 653 WP 644 pm 03:50 WP 420 WP 568 ThP 201 pm 03:50 WP 572 WP 371
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Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn Lyssiotis, Costas Lysiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin Ma, Bin Ma, Bin Ma, Bin Ma, Bin Ma, Bin Lyndess, Eric Lyness, Care Ly	WP 007TP 764TP 442MP 106 .MP 111WP 252MP 653WP 644 pm 03:50WP 420WP 568ThP 201 pm 03:50WP 572MP 371MP 379MP 406
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn Lyssiotis, Costas Lyssiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 379MP 399MP 430
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 420WP 568ThP 201 pm 03:50WP 572MP 371MP 399MP 399MP 406
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 420WP 568WP 572MP 371MP 399MP 406MP 432MP 432TP 020WP 046
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyosiotis, Costas Lyssiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin	WP 007TP 764TP 764TP 442MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572WP 572MP 371MP 399MP 432TP 020WP 432TP 020
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyossiotis, Costas Lyssiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin Ma, Chao	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 420WP 568ThP 201 pm 03:50WP 572MP 371MP 371MP 399MP 432TP 020WP 046WP 508WP 508
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Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyossiotis, Costas Lyssiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin Ma, Chao	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 379MP 399MP 430MP 432TP 020WP 508MP 508MP 508
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lynn, Reed Lyon, Yana Lyons, Gaelyn	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 399MP 406MP 432TP 020WP 508MP 508MP 755ThP 082WP 508MP 755ThP 082WP 112WP 347
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Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn Lyssiotis, Costas Lyste, Cory Lyu, Qiang Ma, Bin Ma, Cheng Ma, Cheng Ma, Cheng Ma, Cheng Ma, Chunyu Ma, Eric	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568Th 201 pm 03:50WP 572MP 371MP 371MP 399MP 430MP 432TP 020WP 508MP 432TP 020WP 508MP 755Th 082WP 112WP 347Th 192Th 196TP 565TP 565
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lynn, Reed Lyon, Yana Lyons, Gaelyn	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 379MP 379MP 430MP 430MP 430MP 430MP 508MP 508MP 555WP 112WP 347ThP 192ThP 766TP 565TP 584TP 584
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Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyosiotis, Costas Lysiotis, Costas Lysiotis, Costas Lyu, Qiang Ma, Bin Ma, Chao Ma, Cheng Ma, Cheng Ma, Cheng Ma, Chunyu Ma, Eric Ma, Firic Ma, Firic Ma, Firic Ma, Fergfei Ma, Hongyu	WP 007TP 764TP 764TP 442MP 101WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 371MP 371MP 399MP 406WP 508MP 432TP 020WP 508MP 755ThP 082WP 112WP 347ThP 192TP 565TP 565TP 565TP 565TP 565TP 565TP 565
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyosiotis, Costas Lysiotis, Costas Lysle, Cory Lyu, Qiang Ma, Bin Ma, Chao Ma, Cheng Ma, Cheng Ma, Cheng Ma, Chunqi Ma, Chunqi Ma, Chunqi Ma, Eric Ma, Fengfei Ma, Hongyu Ma, Junfeng Ma, Lyness Ma, Lyness Ma, Eric Ma, Fengfei Ma, Hongyu Ma, Junfeng Ma, Unger Ma, Lyness Ma, Lyness Ma, Cheng Ma, Cheng Ma, Chunqi Ma, Junfeng	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 420WP 568Th 201 pm 03:50WP 572MP 371MP 372MP 371MP 399MP 406MP 432TP 020WP 046WP 508MP 755ThP 082WP 112WP 347ThP 192ThP 192ThP 766TP 565TP 584WP 110MP 767WP 103ThP 691
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lyon, Reed Lyon, Yana Lyons, Gaelyn Lysiotis, Costas Lysiotis, Costas Lytle, Cory Lyu, Qiang Ma, Bin Ma, Cheng Ma, Cheng Ma, Cheng Ma, Cheng Ma, Chunqi Ma, Chunqi Ma, Eric Ma, Fengfei Ma, Hongyu Ma, Junfeng Ma, Lei Man Ma, Bin Ma, Bin Ma, Cheng Ma, Chong Ma, Chunqu Ma, Chunqi Ma, Chunqi Ma, Chunqi Ma, Chunqi Ma, Chunqi Ma, Chong Ma, Chunqi Ma, Lei Ma, Hongyu Ma, Junfeng Ma, Lei Ma, Lei MhOngyu Mh, Lei MhOngyu Mh MhOngyu Mh MhOngyu Mh MhOngyu Mh	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568ThP 201 pm 03:50WP 572MP 371MP 379MP 399MP 430MP 432TP 020WP 508MP 432TP 020WP 508MP 755ThP 082WP 112WP 347ThP 192WP 347ThP 192WP 110MP 766TP 565TP 584WP 110MP 767WP 103ThP 691 pm 03:50
Lynch, Kara Lynd, Lee Lyness, Eric Lynn, Bert Lynn, Bert Lynn, Bert Lynn, Reed Lyon, Yana Lyons, Gaelyn Lyssiotis, Costas Lyste, Cory Lyu, Qiang Ma, Bin Ma, Cheng Ma, Cheng Ma, Cheng Ma, Cheng Ma, Chunyu Ma, Eric Ma, Fengfei Ma, Hongyu Ma, Junfeng Ma, Lee Ma, Le	WP 007TP 764TP 442MP 106MP 111WP 252MP 653WP 644 pm 03:50WP 568Th 201 pm 03:50WP 572MP 371MP 371MP 399MP 430MP 430MP 432TP 020WP 508MP 755Th 082WP 112WP 347ThP 192ThP 192ThP 192ThP 192ThP 565TP 565TP 584WP 110MP 767WP 103ThP 691 pm 03:50TP 092
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MacDonald, Matthew L	MOB am 09:30MP 756MP 6756MP 688MP 689ThP 535WP 584MP 118WP 167WP 173 ThOD am 08:30ThP 340ThP 350ThP 352WP 220ThP 554ThP 559ThP 554TP 167TP 179TP 475TP 475TP 475TP 025ThP 741MP 387MP 430MP 431MP 431
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MacDonald, Matthew L	MOB am 09:30MP 756MP 692MP 535MP 584MP 118MP 173MP 173MP 173MP 173MP 173ThP 390ThP 352MP 220ThP 559ThP 559ThP 564TP 167TP 167TP 167TP 178MP 387MP 430MP 431MP 441MP 441MP 446MP 682MP 759
MacDonald, Matthew L	MOB am 09:30MP 756WP 608MP 488MP 692ThP 535WP 584MP 118WP 167WP 173 ThOD am 08:30ThP 442ThP 352WP 220ThP 352WP 220ThP 559ThP 559ThP 564TP 167TP 167TP 475TP 167TP 475TP 025ThP 741MP 387MP 430MP 441ThP 265WP 406MP 4682MP 759ThP 116
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MacDonald, Matthew L	MOB am 09:30MP 756WP 608MP 488MP 692ThP 535WP 584MP 118WP 167WP 173 ThOD am 08:30ThP 442ThP 352WP 220ThP 559ThP 559ThP 564TP 167TP 167TP 475TP 025ThP 741MP 387MP 440MP 441ThP 265WP 406MP 430MP 441ThP 265WP 406MP 459MP 475ThP 116WP 482ThP 116WP 482ThP 116WP 482MP 682WP 608WP 608MP 682WP 608MP 682WP 608MP 682WP 608
MacDonald, Matthew L	MOB am 09:30MP 756MP 6756MP 688MP 689ThP 535WP 584MP 118WP 167WP 173 ThOD am 08:30ThP 442ThP 359ThP 559ThP 559ThP 554TP 167TP 475TP 475TP 475TP 475TP 475TP 476TP 476 .
MacDonald, Matthew L	MOB am 09:30MP 756MP 658MP 692ThP 535WP 584MP 118MP 173 ThOD am 08:30ThP 442ThP 390ThP 559ThP 559ThP 559ThP 564TP 167TP 475TP 475TP 475TP 475TP 475MP 387MP 430MP 431MP 441MP 466MP 682MP 682MP 682MP 682MP 684MP 176WP 482ThP 290WP 608MP 624MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 176

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Mamputha, Sipho Mamun, Md. Man, Jun. Man, Timothy Man, Timothy Manadas, Bruno Manadas, Bruno Manadas, Bruno Manadilii-Wheeler, Sheri Manandhar, Abhilasha Mancera, Daniel Manchen, Pete Mandal, Vamshi Mandal, Komal Mandala, Anusha	TP 548 MP 602 ThP 226 TP 307 ThP 087 WP 394 TP 646 WP 608 ThP 160 TP 722 ThP 660 ThP 707 ThP 586 WP 678 ThP 739 ThP 732
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Mamputha, Sipho Mamun, Md Man, Jun Man, Timothy Man, Timothy Manadas, Bruno Manadas, Bruno Manadas, Bruno Manadili-Wheeler, Sheri Manandhar, Abhilasha Mancera, Daniel Manchen, Pete Manda, Vamshi Mandal, Komal Mandala, Anusha Mandley, Everton Maner-Smith, Kristal	TP 548MP 602ThP 226ThP 307ThP 087WP 394TP 646WP 608ThP 160ThP 760ThP 760ThP 707ThP 586WP 678ThP 732WP 090WP 551
Mamputha, Sipho Mamun, Md Man, Jun Man, Timothy Man, Timothy Manadas, Bruno Manadas, Bruno Manadas, Bruno Manadili-Wheeler, Sheri Manandhar, Abhilasha Mancera, Daniel Manchen, Pete Manda, Vamshi Mandal, Komal Mandala, Anusha Mandley, Everton Maner-Smith, Kristal Manes, Nathan	TP 548 MP 602 ThP 226 TP 307 ThP 087 WP 394 TP 646 WP 608 ThP 160 TP 722 ThP 660 ThP 707 ThP 586 WP 678 ThP 732 WP 090 WP 551 MP 579
Mamputha, Sipho Mamun, Md Man, Jun Man, Timothy Man, Timothy Manadas, Bruno Manadas, Bruno Manadas, Bruno Manadili-Wheeler, Sheri Manandhar, Abhilasha Mancera, Daniel Manchen, Pete Manda, Vamshi Mandal, Komal Mandala, Anusha Mandley, Everton Maner-Smith, Kristal	TP 548 MP 602 ThP 226 TP 307 ThP 087 WP 394 TP 646 WP 608 ThP 160 TP 722 ThP 660 ThP 707 ThP 586 WP 678 ThP 732 WP 090 WP 551 MP 579
Mamputha, Sipho Mamun, Md Man, Jun Man, Timothy Man, Timothy Manadas, Bruno Manadas, Bruno Manadas, Bruno Manadili-Wheeler, Sheri Manandhar, Abhilasha Mancera, Daniel Manchen, Pete Manda, Vamshi Mandal, Komal Mandala, Anusha Mandley, Everton Maner-Smith, Kristal Manes, Nathan	TP 548 MP 602 ThP 226 TP 307 ThP 087 WP 394 TP 646 WP 608 ThP 160 ThP 707 ThP 586 WP 678 ThP 739 TP 770
Mamputha, Sipho Mamun, Md. Man, Jun. Man, Timothy. Man, Timothy. Manadas, Bruno. Manadas, Bruno. Manadilii-Wheeler, Sheri. Manandhar, Abhilasha. Mancera, Daniel. Manchen, Pete. Mandal, Komal. Mandla, Komal. Mandley, Everton. Maner-Smith, Kristal. Manes, Nathan	TP 548MP 602Th P 226TP 307Th P 087WP 394TP 646WP 608Th P 160Th P 600Th P 707Th P 586WP 678Th P 732WP 090WP 551MP 579TP 770MOE pm 04:10
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226TP 307ThP 087TP 646MP 394TP 646TP 660ThP 160TP 722ThP 660ThP 707ThP 586MP 673ThP 739ThP 732WP 090WP 551MP 579TP 770MOE pm 04:10TOF pm 03:50
Mamputha, Sipho Mamun, Md Man, Jun	TP 548 MP 602 ThP 226 TP 307 ThP 087 WP 394 TP 646 WP 608 ThP 160 TP 722 ThP 660 ThP 707 ThP 586 WP 678 WP 579 TP 732 WP 090 WP 551 MP 579 TP 770 MOE pm 04:10 TOF pm 03:50
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 087WP 394TP 646WP 608ThP 160TP 722ThP 660ThP 707ThP 586WP 678ThP 739ThP 739WP 990WP 551MP 579TP 770MOE pm 04:10TOF pm 03:50MP 706TP 030
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602TP 226TP 307TP 087TP 646WP 608TP 160TP 722ThP 660TP 707ThP 586WP 678ThP 732WP 090WP 551MP 579TP 770TP 770MOE pm 04:10TP 570TP 19030TP 194
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th P 226Th P 087
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th P 226Th P 087
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 087WP 394TP 646WP 608ThP 160TP 722ThP 660ThP 707ThP 586WP 678WP 678WP 090WP 551MP 579TP 770MOE pm 04:10TOF pm 03:50MP 706TP 194MOB pm 02:50MP 446
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 226ThP 087WP 394TP 646WP 608ThP 160ThP 160ThP 707ThP 586WP 678ThP 739ThP 739ThP 739ThP 739ThP 739ThP 730WP 090WP 551MP 579TP 770MOE pm 04:10TOF pm 03:50MP 706TP 194MOB pm 02:50MP 446 ThOF am 09:30
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 276
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 226ThP 087WP 394TP 646WP 608ThP 160TP 722ThP 660ThP 707ThP 586WP 678ThP 732WP 090WP 551MP 579TP 770MOE pm 04:10TOF pm 03:50MP 706TP 194MOB pm 02:50MP 464MOB pm 03:50MP 430ThP 535ThP 535WP 013
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th P 226Th P 226Th 9 307Th 9 87WP 394Th 646Th 7660Th 7660Th 707Th 586WP 678Th 739Th 732WP 090WP 551MP 579TP 770MP 579TP 770MP 579TP 770MP 579TP 770MP 579TP 194MOB pm 02:50MP 446 ThOF am 09:30Th 935WP 013
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th P 226Th P 226Th 9 307Th 9 87WP 394Th 646Th 7660Th 7660Th 707Th 586WP 678Th 739Th 732WP 090WP 551MP 579TP 770MP 579TP 770MP 579TP 770MP 579TP 770MP 579TP 194MOB pm 02:50MP 446 ThOF am 09:30Th 935WP 013
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 226TP 307ThP 087WP 394TP 646WP 608ThP 160ThP 660ThP 707ThP 586WP 678ThP 732WP 090WP 551ThP 732WP 090WP 551TP 770MDE pm 04:10TOF pm 03:50MP 766TP 030TP 194MOB pm 02:50MP 446 ThOF am 09:30ThP 535WP 013WP 013WP 018WP 018
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 226Th 307ThP 087ThP 646
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th 226Th 207Th 987
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th 226Th 226Th 307Th 987Th 987Th 646
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th 226Th 226Th 307Th 987WP 394Th 646Th 160Th 7660Th 767Th 767Th 768
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th 226Th 226Th 287Th 987WP 394TP 646WP 608Th 160Th 7660Th 7660Th 767Th 768WP 678Th 739Th 739WP 090WP 551Th 7586MP 579TP 770MOE pm 04:10TOF pm 03:50MP 579TP 770
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602Th 226Th 226Th 287Th 987WP 394TP 646WP 608Th 160Th 7660Th 7660Th 767Th 768WP 678Th 739Th 739WP 090WP 551Th 7586MP 579TP 770MOE pm 04:10TOF pm 03:50MP 579TP 770
Mamputha, Sipho Mamun, Md Man, Jun	TP 548MP 602ThP 226ThP 226ThP 087ThP 087ThP 646ThP 646

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Mao, Pan Mao, Pan	
Maout, Etienne	
Mapelli, Claudio	
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Marceau, Hubert	
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Marin, Cassandra Marin, Stephanie Marin, Stephanie Marino, Gennaro	ThP 259 WP 529 WP 784 .MOH pm 02:50
Marin, Cassandra	ThP 259 WP 529 WP 784 .MOH pm 02:50 WP 675
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30WP 090
Marin, Cassandra	ThP 259 WP 529 WP 784 .MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30WP 090TP 393TP 486WP 461
Marin, Cassandra	ThP 259WP 529WP 784WP 675WP 675TOD pm 03:30WP 090TP 393TP 486WP 461TP 290
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675WP 090
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30WP 090TP 393TP 486WP 461TP 290WP 307WP 424
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30WP 090TP 393TP 486WP 461TP 290WP 307WP 424MP 325ThP 180
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675TOD pm 03:30WP 090TP 393TP 486WP 461TP 290WP 307WP 424MP 325ThP 180
Marin, Cassandra	ThP 259WP 529WP 784WP 675
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675
Marin, Cassandra	ThP 259WP 529WP 784 .MOH pm 02:50WP 675
Marin, Cassandra	ThP 259WP 529WP 784WP 675
Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 685 ThP 632 WP 087 WP 163 MP 508
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Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 632 WP 087 WP 163 MP 508 ThP 410 TP 100 TP 748 WP 522
Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 685 WP 97 WP 163 WP 163 WP 163 WP 163 WP 163 WP 163 WP 508 ThP 441 TP 100 TP 748 WP 522 WP 373 TP 509
Marin, Cassandra	ThP 259ThP 259
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Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 685 MP 632 WP 087 WP 163 MP 508 ThP 180 TP 190 TP 748 WP 522 WP 373 TP 509 MP 273 WOG pm 04:10 MP 619
Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 632 WP 087 WP 163 MP 508 ThP 410 TP 100 TP 748 WP 522 WP 373 TP 509 MP 673 WP 619 MP 619 MP 619 MP 619 MP 619 MP 629
Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 685 ThP 685 ThP 685 ThP 632 WP 087 WP 163 MP 508 ThP 441 TP 100 TP 748 WP 522 WP 373 TP 509 MP 273 WOG pm 04:10 MP 619 TP 224 MP 108
Marin, Cassandra	ThP 259ThP 259
Marin, Cassandra	ThP 259ThP 259WP 529
Marin, Cassandra	ThP 259 WP 529 WP 784 MOH pm 02:50 WP 675 TOD pm 03:30 WP 090 TP 393 TP 486 WP 461 TP 290 WP 307 WP 424 MP 325 ThP 180 TOE pm 02:30 TP 535 ThP 685 ThP 632 WP 087 WP 424 WP 522 WP 373 TP 508 TP 748 WP 522 WP 373 TP 509 MP 273 WOG pm 04:10 MP 619 TP 224 MP 108 MP 154 TP 100 TP 224 MP 108 MP 154 TP 109 TP 224 MP 108 MP 154 TP 109 TP 224 MP 108 MP 154 TOG pm 03:50 TP 143

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wartin, Richard	IVIOA prii 02.50
Martin, Sarah	MP 520
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Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 492TP 090TP 527TP 647MOE am 10:10
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 492TP 090TP 527TP 647MOE am 10:10MOE am 10:10
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 492TP 090TP 527TP 647MOE am 10:10MOE am 10:10ThP 229WP 071
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 492TP 090TP 527TP 647MOE am 10:10MOE am 10:10ThP 229WP 071
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 445TP 090TP 527TP 647MOE am 10:10MOE am 10:10ThP 229WP 071
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 445TP 090TP 527TP 647MOE am 10:10MOE am 10:10ThP 229WP 071WP 368MP 347
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Martinez Martin, Nadia	ThP 372
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Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 492TP 090TP 527TP 647MOE am 10:10MOE am 10:10WP 368MP 347ThP 007ThP 007ThP 031TOC am 08:50
Martinez Martin, Nadia	ThP 372WOE am 09:10WP 593MP 190MP 1492TP 090TP 527TP 647MOE am 10:10MOE am 10:10WP 368WP 347ThP 007ThP 007ThP 031TOC am 08:50WOA am 09:30
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Martinez Martin, Nadia Martinez Varela, A Martinez-Monta, Yessica Martins, Claudia P.B. Martins, Laucia P.B. Martins, Ealph Martin-Saiz, Lucia Martin-Saiz, Lucia Martin-Saiz, Lucia Martin-Saiz, Lucia Marton, Andras Marty, Michael. Marupaka, Ramesh Marupaka, Ramesh Maruyama, Katsuya Marx, Andreas Marx, Kristina Marz, Kristina Marzullo, Bryan. Marzullo, Bryan. Marzullo, Bryan. Maschberger, Melanie. Maser, Tara Mashima, Ryuichi Mason, Katelyn Mason, Robert Massawe, Reda Masselon, Christophe.	

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watnews, Clayton	1110G alli 00.50
Mathews, W. Rodney	
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Matsumoto, Takuya Matsuo, Kana. Matsuo, Kana. Matsuoka, Hideo Mattar, Hadeer. Matthiadis, Anna. Mattice, Jenna Mattson, Sara. Matuszak, Kenneth. Matyja, Tiffany Maune, Matthew. Maus, Anthony. Maust, Matthew. Mawhinney, Thomas. Maxon, Laura Maxon, Laura Maxon, Laura Maxwell, George	ThP 039TP 026WP 765WP 374MP 621TP 334MP 449MP 085ThP 055WP 728TP 122TP 617WP 273WP 230WP 251MOH am 09:50MP 752
Matsumoto, Takuya Matsuo, Kana. Matsuoka, Hideo. Mattar, Hadeer. Matthiadis, Anna. Mattice, Jenna Mattson, Sara. Matuszak, Kenneth. Matyja, Tiffany. Maune, Matthew. Maus, Anthony Maust, Matthew. Mawhinney, Thomas Maxon, Laura Maxon, Laura Maxon, Laura Maxwell, George Maxwell, George Maxwell, George	ThP 039TP 026WP 765WP 374MP 621TP 334MP 449MP 085ThP 055WP 728TP 122TP 617WP 273WP 230WP 251MOH am 09:50MP 752TOF pm 04:10
Matsumoto, Takuya Matsuo, Kana. Matsuoka, Hideo. Mattar, Hadeer. Matthiadis, Anna. Mattson, Sara. Mattson, Sara. Matuszak, Kenneth. Matyja, Tiffany. Maune, Matthew. Maus, Anthony Maust, Matthew. Mawhinney, Thomas Maxon, Laura Maxon, Laura Maxwell, George. Maxwell, George. Maxwell, George. Maxwell, George.	ThP 039TP 026WP 765WP 374MP 621TP 334MP 449MP 085TP 055WP 728TP 122TP 617WP 273WP 230WP 251MOH am 09:50MP 752TOF pm 04:10MP 397
Matsumoto, Takuya Matsuo, Kana. Matsuoka, Hideo. Mattar, Hadeer. Matthiadis, Anna. Mattice, Jenna Mattson, Sara. Matuszak, Kenneth. Matyja, Tiffany. Maune, Matthew. Maus, Anthony Maust, Matthew. Mawhinney, Thomas Maxon, Laura Maxon, Laura Maxon, Laura Maxwell, George Maxwell, George Maxwell, George	ThP 039TP 026WP 765WP 374MP 621TP 334MP 449MP 085TP 055WP 728TP 122TP 617WP 273WP 230WP 251MOH am 09:50MP 752TOF pm 04:10MP 397
Matsumoto, Takuya	ThP 039TP 026WP 765WP 374MP 621TP 334MP 449MP 085TP 055WP 728TP 122TP 617WP 273WP 230WP 251MOH am 09:50MP 752TOF pm 04:10MP 397WOA am 08:30
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Mayorov, Alexey	MP 310
Mayorov, Alexey	WP 307
Mayr, Ernest	
Mayrand-Provencher, Laurence	
Maze, Joshua	
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Mazur, Matthew WOD	pm 03:10
Mazzarino, Monica	
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McBride, Ethan	
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McCarthy, Sean	TP 607
McCarthy, Sean	TP 645
McCarthy, Sean	
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McClain, Craig	MP 572
McClintock, Carlee	
McClurg, Noah	
McColm, Richard McConnell, Evan	MP 210
McCool, EliTOC	
McCormley, Molly	
McCoull, William	
McCoy, Atticus	
McCue, Lee	
McCue, Lee McCullagh, Michael	
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McCullagh, Mike	
McCullagh, Mike	TP 509
McCullagh, Mike	
McCutchoon Meg	
McCutcheon, Meg McDaniel, Trevor	
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McDonald, lan	TP 574
McDonald, Jeffery	MP 520
McDonald, Jeffery McDonald, Jeffrey	VP 520
McDonald, Thomas	IVIP 523
McDonald, Thomas	WP 474
McDonald, Zac	TP 020
McDonald, Zac	WP 046
McDonough, William	ThP 171
McDougall, Danielle	ThP 046
McDougall, Stuart	WP 696
McEachran, Andrew	TOE am 09:30
McElroy, Joseph	. InOA am 09:50
McEwen, Charles McEwen, Charles	
McFadden, Jeremy	TP 200
McFadden, Jeremy	WP 526
McFadden, Joseph	MP 516
McFarland, Melinda	MP 410
McFarland, Melinda	WP 269
McGann, Chris	MP 589
Mcgann, Chris	TP 763
McGee, John	MOH am 09:30
McGee, John McGee, Kirstin	IP 00
McGhee, James	TD 67
McGowan, Josephine	ThP 434
McGowan, Thomas	MOA pm 04:10
McGowan, Thomas	. ThOA pm 03:30
McGowan, Thomas	TP 435
Mcgrath, Deborah	MP 141
McGregor, Laura	TP 309
McGregor, Laura	WP 065
McGuire, Jeffrey McIlvin, Matthew	MP 150
McIlvin, Matthew	IVIP 42
McIlvin, Matthew	TP 766
McIlvin, Matthew	TP 767
McIlwain, Sean	MP 78
McIlwain, Sean	TP 730
McIlwain, Sean McInerney, Michael	TP 730
McIlwain, Sean McInerney, Michael McIntosh, Alex	TP 730 WP 728 MP 652
McIlwain, Sean	TP 730 WP 728 MP 652 TP 347
McIlwain, Sean	TP 730 WP 728 MP 652 TP 347
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McIlwain, Sean McInerney, Michael McIntosh, Alex McIntosh, Julie McIntyre, Lauren McIntyre, Will McIntyre, Will McIntyre, Will McIntyre, Will McIsaac, R. McKay, Matthew McKenna, Amy McKenna, Amy McKenna, Ary McKenna, Ary McKenna, Kristin McKenna, Kristin McKenzie, James McKerohar, Hannah McKerohar, Hannah	TP 730 WP 726 MP 656 TP 341 MP 566 TOH am 09:10 TP 133 WOA am 08:50 MP 606 ThOH am 09:50 TOE am 09:50 TP 144 TP 144 TP 144 TP 144 TP 145 MP 274 WP 493 MP 125 TOF pm 03:50 TP 366 WP 375 TP 106 TP 175
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McLean, John	WP 484
McLean, John A	ThP 307
McLendon, Michael	
McLuckey, Scott	
McLuckey, Scott	MP 260
McLuckey, Scott	MP 275
Mcluckey, Scott	
McLuckey, Scott	
McLuckey, Scott	
Mcluckey, ScottT	hOB am 09:10
McLuckey, ScottT	hOG pm 03:30
McLuckey, Scott\	NOG am 08:50
McMahon, Adam	
McMahon, Meghann	
McMahon, William	
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McNeill, Ashley	MP 288
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McSheehy Ducos, Shona	
McWilliams, Lisa	
Mead, David	ThP 572
Mead, Martin	TP 773
Meads, Mark	
Meads, Mark	
Measham, Fiona\	
Mechie, Stewart	TP 063
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Mechref, Yehia	ThP 071
Mechref, Yehia	ThD 070
Medirer, rema	TIP 070
Mechref, Yehia	ThP 0/9
Mechref, Yehia	ThP 222
Mechref. Yehia	ThP 223
Mechref, Yehia	ThP 654
Mechref, Yehia	\\\D 072
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Mechref, Yehia	VVP 580
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Medico, Roselina	MOC pm 04·10
Medrecki, Gosia	
Medwid, Tiffany	
Medalandalan Katala	100 aiii 09.50
Medzihradszky, Katalin	
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Mehta, Sajjan	
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	MOA pm 04:10
Mehta, Subina Mehta, Subina	MOA pm 04:10 MP 758
Mehta, Subina Mehta, Subina Mehta, Subina	MOA pm 04:10 MP 758 hOA pm 03:30
Mehta, Subina	MOA pm 04:10 MP 758 ThOA pm 03:30 TP 435
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Mehta, Subina	MOA pm 04:10 MP 758 ThOA pm 03:30 TP 435 TP 438 MP 456

Meier, Florian	
Welei, i 1011a11	TOA pm 02:30
Meier, Florian	TOA pm 03:10
Meier, Florian Meier, Florian	IP 6/8
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Meier-Credo, Christian	
Meier-Credo, Christian	
Meier-Credo, Jakob	TP 395
Meier-Schellersheim, Martin	TP 770
Meijer, Alexander	
Meikle, Peter	. MOE am 10:10
Meiman, Jon	TP 713
Meinen, Ben	
Meiri, David Meisenheimer, Poncho	. IVIOA aiii 06.50 ThD 35
Meissen, John	
Meissner, Felix	TP 65
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Meke, Laurel	
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Mekhssian, Kevork	WOD pm 02:30
Melani, Rafael	.MOH am 09:30
Melani, Rafael	
Melani, Rafael	
Melani, Rafael	TOC pm 02:30
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Melani, Rafael Melani, Rafael	
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Meléndez, Loyda	MD 75
wielendez, Loyda	IVIP /5
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Mellacheruvu, Dattatreya Mellett, Natalie Mellinger, Allyson	WP 396 . MOE am 10:10 TP 046
Mellacheruvu, Dattatreya Mellett, Natalie Mellinger, Allyson Mellors, J	WP 396 .MOE am 10:10 TP 046 ThP 558
Mellacheruvu, Dattatreya Mellett, Natalie Mellinger, Allyson Mellors, J. Mellors, J.	WP 396 .MOE am 10:10 TP 046 ThP 558 ThP 622
Mellacheruvu, Dattatreya Mellett, Natalie Mellinger, Allyson Mellors, J Mellors, J. Scott Melnik, Alexey	WP 396 .MOE am 10:10 TP 046 ThP 558 ThP 622 TP 619
Mellacheruvu, Dattatreya Mellett, Natalie Mellinger, Allyson Mellors, J Mellors, J. Scott Melnik, Alexey Melnik, Alexey	WP 396 .MOE am 10:10TP 046ThP 556ThP 622TP 619ThP 529TOB pm 04:10
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Milford, Maximilian. Miljkovic, Nenad. Millan, Silvia. Miller, Dwayne. Miller, Ian. Miller, Ian. Miller, Jennifer. Miller, Jennifer. Miller, Lance. Miller, Logan. Miller, Logan. Miller, Hoise. Miller, Michael. Miller, Phillip. Miller, Rachel. Miller, Rostel. Miller, Rostel. Miller, Scott. Miller, Thomas. Miller, Wendy. Miller, Wendy. Miller, Wendy. Miller, Wendy. Miller, Wendy. Miller, Wendy. Miller, Mobert. Millishen, Jenna. Millishin, Robert. Millishin, Robert. Millishin, Robert. Millish, Glare. Mills, Simon. Miller, Joy. Milne, Joy. Milner, Courtney.	TP 623WP 411
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana	TP 335 ThP 528 ThP 538 ThP 672
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana	TP 335 ThP 528 ThP 538 ThP 672
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy	TP 335ThP 528ThP 538ThP 672WP 569
Möller, Ingvar	TP 335ThP 528ThP 538ThP 672WP 569 ThOG pm 02:50
Möller, Ingvar	TP 335ThP 528ThP 538ThP 672WP 569 ThOG pm 02:50 ThOH pm 03:30
Möller, Ingvar	TP 335ThP 528ThP 538ThP 672WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033
Möller, Ingvar	TP 335ThP 528ThP 538ThP 672WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033
Möller, Ingvar	TP 335ThP 528ThP 538WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033
Möller, Ingvar Molleur, Dana Molleur, Dana Mollour, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Molnar, Brian Monaghan, Joseph Moncur, John	TP 335ThP 528ThP 572WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 480MP 211
Möller, Ingvar Molleur, Dana Molleur, Dana Mollour, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Molnar, Brian Monaghan, Joseph Moncur, John	TP 335ThP 528ThP 572WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 480MP 211
Möller, Ingvar	TP 335ThP 538ThP 558ThP 672P 569 ThOG pm 02:50 ThOH pm 03:30ThP 033TP 480MP 211MP 160MOE pm 02:30
Möller, Ingvar	TP 335ThP 538ThP 558ThP 569ThP 672P 569 ThOG pm 02:50 ThOH pm 03:30ThP 033TP 480MP 211MP 160MP 160TP 426
Möller, Ingvar	TP 335ThP 528ThP 538ThP 678WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033ThP 033ThP 030MP 211MP 160MOE pm 02:30TP 426TP 253
Möller, Ingvar	TP 335ThP 528ThP 538ThP 678WP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033ThP 033ThP 030MP 211MP 160MOE pm 02:30TP 426TP 253
Möller, Ingvar	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 TP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Moneghetti, Kegan Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 TP 966
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy. Molloy, Kelly Molnar, Brian Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monner, Véronique Monnin, Cian Monnin, Cian	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 ThP 033 TP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 TP 096 MP 554 WOD am 09:50
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monogarov, German	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 ThP 033 TP 480 MP 211 MP 160 MOE pm 02:30 TP 253 TP 096 MP 554 WOD am 09:50
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Möller, Ingvar	TP 335ThP 528ThP 528ThP 528ThP 569 ThOG pm 02:50 ThOH pm 03:30ThP 033THP 033TP 480MP 211MP 160MOE pm 02:30TP 426TP 253TP 096MP 554 WOD am 09:50TP 680MP 423MP 114
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Mondello, Luigi Moneghetti, Kegan Moneghetti, Kegan Moneghetti, Kegan Moner, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monogarov, German Monogarov, German Monroe, Matthew E Montagner, Cassiana Montagner Raimundo, Cassian	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 420 TP 253 TP 096 MP 554 WOD am 09:50 MP 423 MP 114 aTOG pm 03:30
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monner, Véronique Monnin, Cian Monnin, Cian Monogarov, German Monroe, Matthew E Montagner, Cassiana Montagner Raimundo, Cassian Montagner Raimundo, Cassian Montagner Raimundo, Cassian	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 TP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 TP 096 MP 554 WOD am 09:50 MP 423 MP 143 MP 143 TP 096 m9 13:30
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monnin, Cian Monogarov, German Monragner, Cassiana Montagner Raimundo, Cassian Montagner Raimundo, Cassian Montanaro, Federica Monteiro, Thays Montemurro, Nicola	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 ThP 160 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 TP 096 MP 554 WOD am 09:50 MP 114 aTOG pm 03:30
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monogarov, German Monogarov, German Montagner, Cassiana Montagner Raimundo, Cassian Montagner, Cassiana	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 480 MP 554 WOD am 09:50 MP 423 MP 114 aTOG pm 03:30 TP 704 MP 155 MP 114 TP 556 MOE am 09:10 MOA pm 02:50 ThOB pm 03:30
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnir, Cian Monnin, Cian Monnin, Cian Monogarov, German Monroe, Matthew E Montagner, Cassiana M	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 TP 480 MP 211 MP 160 MOE pm 02:30 TP 480 MP 554 WOD am 09:50 MP 213 MP 114 aTOG pm 03:30 TP 704 MOE pm 02:50 TO pm 03:30 TP 704 TP 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 MP 347 ThP 654 WP 205
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 480 MP 554 WOD am 09:50 MP 423 MP 114 aTOG pm 03:30 TP 704 MP 150 MOE pm 03:30 MP 423 MP 114 TP 556 MP 114 TP 566 MP 57 MOE pm 03:30 TP 700 MP 347 THP 654 WP 205 WP 741
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Moneghetti, Kegan Moneghetti, Kegan Moneghetti, Kegan Monier, Samantha Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monnogarov, German Monroe, Matthew E Montagner, Cassiana Montagner, Cassiana Montagner, Cassiana Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montenogro, Raul Montero, Raul Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montforde, Thomas	
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Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy. Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnir, Cian Monnin, Cian Monnin, Cian Monnin, Cian Monnin, Cian Monogarov, German Monroe, Matthew E Montagner, Cassiana Montagner Raimundo, Cassian Montengro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montgomery, Madeline Montine, Thomas Montine, Thomas Montoya, Melissa	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 633 ThP 633 ThP 633 ThP 633 ThP 633 TP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 TP 096 MP 554 WOD am 09:50 MP 423 MP 114 ATOG pm 03:30 TP 704 TP 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 MP 147 Th 654 WP 205 WP 741 MP 213 TP 711 WP 118
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnir, Samantha Monnir, Cian Monnin, Cian Monnin, Cian Monogarov, German Monroe, Matthew E Montagner, Cassiana Montagner, Madeline Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montoya, Melissa Montoya, Melissa Montoya, Melissa Montoya, Melissa	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 480 MP 554 WOD am 09:50 MP 213 MP 114 aTOG pm 03:30 TP 704 MP 343 MP 347 MP 243
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy. Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Monier, Samantha Monnir, Cian Monnin, Cian Monnin, Cian Monnin, Cian Monnin, Cian Monogarov, German Monroe, Matthew E Montagner, Cassiana Montagner Raimundo, Cassian Montengro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montford, Jair Montgomery, Madeline Montine, Thomas Montine, Thomas Montoya, Melissa	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 480 MP 554 WOD am 09:50 MP 213 MP 114 aTOG pm 03:30 TP 704 MP 343 MP 347 MP 243
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monogarov, German Monnogarov, German Montagner, Cassiana Montagner, Cassiana Montagner, Cassiana Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montero, Raul Montford, Jair Montford, Jair Montford, Jair Montgomery, Madeline Montgomery, Melissa Montoya, Melissa	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 TP 480 MP 211 MP 160 MOE pm 02:30 TP 426 TP 253 MP 554 WOD am 09:50 MP 211 ATOG pm 03:30 TP 704 MP 114 ATOG pm 03:30 TP 704 MP 33:30 TP 704 MP 347 TP 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 MP 347 TP 576 WP 741 MP 213 TP 711 WP 118 MP 213 TP 711 WP 118 MP 233 MP 567 WOD pm 02:30
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 ThP 480 MP 211 MP 160 MOE pm 02:30 TP 253 TP 096 MP 554 WOD am 09:50 MP 114 aTOG pm 03:30 MP 149 TP 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 MP 423 TP 704 TP 566 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 MP 347 ThP 654 MP 213 MP 567 WOD pm 02:30 WOB am 09:10
Möller, Ingvar Molleur, Dana Molleur, Dana Molleur, Dana Molloy, Billy Molloy, Billy Molloy, Kelly Molnar, Brian Monaghan, Joseph Moncur, John Mondello, Luigi Moneghetti, Kegan Moneghetti, Kegan Monier, Samantha Monnet, Véronique Monnin, Cian Monnin, Cian Monogarov, German Monnogarov, German Montagner, Cassiana Montagner, Cassiana Montagner, Cassiana Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montenegro-Burke, J. Rafael Montero, Raul Montford, Jair Montford, Jair Montford, Jair Montgomery, Madeline Montgomery, Melissa Montoya, Melissa	TP 335 ThP 528 ThP 528 ThP 569 ThOG pm 02:50 ThOH pm 03:30 ThP 033 TP 480 MP 211 MP 160 MOE pm 02:30 TP 253 TP 936 MP 554 WOD am 09:50 MP 114 aTOG pm 03:30 MP 17 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 TP 704 TP 556 WOE am 09:10 MOA pm 02:50 ThOB pm 03:30 TP 704 TP 705 WOE am 09:10 ThOB pm 03:30 TD 705 THOB pm 03:30

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Moon, Jeong-HeeTP 0	76
Moon, Ji hyeTP 0	. o
Moon, JonathanTP 1	
Moon, Seung JuWP 6	
Moon, Seung JuWP 7	
Moon, ThomasTP 6	
Mooney, BrianMP 7	21 11
Mooney, BrianTP 6	
Mooney, CharlotteThP 3	
Mooney, NancieWP 6	
Moons, RaniThP 3	
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Moore, BenjaminTOG am 09:	
Moore, BenjaminTP 6	
Moore, JamesWP 6	
Moore, JeromeWP 4	
Moore, MaxTP 5	
Moore, RogerMP 4	
Moore, RogerWP 6	25
Moore, RonaldMP 6	
Moore, RonaldThP 2	47
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Moore, RowanThP 2	
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Moorthy, GaneshMOA am 09:	20
Moosa, Johanna MP 3	
Mora, JohannaWP 2	
Moradian, AnnieMP 1	
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Moraes, FabrícioMOA pm 03:	10
Moraes, LuizThP 5	79
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Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6	79 82 08
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4	79 82 08 08
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0	79 82 08 08 17
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2	79 82 08 08 17 23
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2 Moran, Alan MOB am 08:	79 82 08 08 17 23 50
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Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2 Moran, Alan MOB am 08 Moran, Dawn MP 4 Moran, Dawn TP 7 Moran, James MP 1	79 82 08 08 17 23 50 21 66 38
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2 Moran, Alan MOB am 08 Moran, Dawn MP 4 Moran, Dawn TP 7 Moran, James MP 1 Moran, James TP 3	79 82 08 08 17 23 50 21 66 38 54
Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2 Moran, Alan MOB am 08 Moran, Dawn MP 4 Moran, Dawn TP 7 Moran, James MP 1 Moran, James TP 3 Moran, Liam TP 0	79 82 08 17 23 50 21 66 38 54 84
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Moraes, Luiz ThP 5 Moraes, Luiz ThP 5 Morais, Sofia WP 6 Morales, Mayra ThP 4 Morales Betanzos, Carlos MP 0 Morales-garcia, Flavia TP 2 Moran, Alan MOB am 08 Moran, Dawn MP 4 Moran, Dawn TP 7 Moran, James MP 1 Moran, James TP 3 Moran, Liam WP 7 Moran, Michael MP 3 Moran, Michael MP 3 Moran, Michael MP 7	79 82 08 17 23 50 21 66 38 54 55 71 99 33
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Moriya, Takefumi Morowitz, Michael			
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Morris, Kenneth Morris, Mike			
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Morris-Kukoski, Cynthia			
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Mosca, Ettore Moseley, M. Arthur			
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Moseley, Richard Mosely, Jackie	WOC	pm 03	3:50
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Moser, Debra		MP	115
Moskovets, Eugene Moskovets, Eugene		I nP	42
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Mosley, Jonathan	ThOF	ThPTPTPThPThPThPThPThPWPWPWPWPWPMPMPMP	508 164 554 368 574 488 502 560 418 681 008 010 224 377 783 117 138 328
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Muddiman, David	MP 121
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Muddiman, David	
Muehlbauer, Laura	ThP 367
Mueller, Emily	WP 547
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Mueller, Torsten	
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Mujica, Sheira	
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Mukai, Norio	VVP 389
Mukasa, Yume	WP 367
Mukasa, Yume	WP 360
Mukherjee, Bratati	
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Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Newweger, Heiko Newweger, Heiko Newitt, John Newman, Rachael Newquist, Leonor Newsome, G. Asher	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 TP 568 WP 427 WP 427 WP 492 WP 618 ThP 639 WOD pm 04:10 ThOD am 09:10
Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Newweger, Heiko	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 TP 568 WP 427 WP 492 WP 618 ThP 639 WOD pm 04:10 ThO am 09:10 ThP 048
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Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Newitt, John Newman, Rachael Newquist, Leonor Newsome, G. Asher Newton, Kenneth Newton, Seth	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 WP 427 WP 427 WP 492 WP 618 ThP 639 WOD pm 04:10 ThOD am 09:10 MP 599 TOE am 09:30
Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Newman, Rachael Newton, Seh Newton, Seth Nezami Ranjbar, Mohammad	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 TP 568 WP 427 WP 427 WP 492 WP 618 ThP 639 WOD pm 04:10 ThOD am 09:10 ThOD am 09:30 TP 440 WP 417
Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Neweger, Heiko Newmeger, Heiko Neuweger, Heiko Neuweger	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 TP 568 WP 427 WP 427 WP 492 WP 618 ThP 639 WOD pm 04:10 ThOD am 09:10 ThOD am 09:30 TP 440 WP 441
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Netzer, Ravit Neu, Josef Neubert, Hendrik Neumann, Anika Neumark, Benjamin Neuweger, Heiko Neweger, Heiko Newitt, John Newman, Rachael Newquist, Leonor Newsome, G. Asher Newton, Kenneth Newton, Seth Nezami Ranjbar, Mohammad Nezami Ranjbar, Mohammad Ng, Keng Tiong Ng, Kwan-Ming Ngai, James Ngo, Lizzie	ThP 621 TP 543 TP 085 MOG pm 03:30 WP 001 ThP 201 ThP 395 TP 392 TP 409 WP 422 WP 618 ThP 639 WOD pm 04:10 ThO am 09:10 ThP 048 WP 492 WP 492 WP 492 WP 492 WP 492 WP 492 WP 618 ThP 639 WOD pm 04:10 ThO am 09:10 ThO am 09:30 TP 440 WP 417 TP 195 WP 102 WP 630
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Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538ThP 672ThP 333MP 764MP 043TP 244WP 083WP 089WP 093TP 231WP 231
Pappin, Darryl	MP 281MP 681 am 09:50MP 923WP 594MP 424WP 733ThP 528ThP 538ThP 538MP 764MP 043TP 244WP 083WP 089WP 083WP 089WP 093TP 231WP 293WP 293
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Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538ThP 638ThP 640MP 043TP 244WP 083WP 089WP 093TP 231WP 231WP 232WP 724 pm 02:30TP 722WP 716 pm 03:10WP 520
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 574MP 538ThP 538ThP 538MP 764MP 043ThP 638TP 244WP 089WP 089WP 089WP 093TP 231MP 293MP 764 pm 02:30TP 722WP 716 pm 03:10 pm 03:10 pm 03:10 pm 05:51
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538MP 764MP 043TP 048TP 048WP 083WP 083WP 093TP 231WP 293MP 542WP 724 pm 02:30TP 722WP 716 pm 03:10WP 561 am 08:30
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 673ThP 673ThP 673MP 764MP 043TP 048WP 083WP 093TP 231WP 293MP 542WP 724 pm 02:30TP 722WP 716 pm 03:10WP 520WP 520TP 044
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 638ThP 638ThP 638MP 764MP 043TP 244WP 083WP 089WP 093TP 231WP 231WP 724 pm 02:30TP 724 pm 03:30TP 724 pm 03:30TP 244WP 561 am 08:30TP 944WP 550TP 944WP 550TP 044WP 551TP 044
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323ThP 323ThP 528ThP 538ThP 538ThP 538ThP 638ThP 638ThP 638MP 764MP 043TP 244WP 083WP 089WP 089WP 089WP 231WP 232WP 724 pm 02:30TP 722WP 716 pm 03:30TP 722WP 716 pm 03:30TP 722WP 716 pm 03:30TP 722WP 561 am 08:30TP 044MP 253TP 047ThP 077MP 345
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538MP 764MP 043TP 048TP 244WP 083WP 083WP 083WP 093TP 221WP 093TP 222WP 724 dpm 02:30TP 722WP 726 dpm 03:10TP 722WP 724 dpm 02:30TP 722WP 744 dpm 02:30TP 722WP 744 dpm 03:10TP 047MP 253ThP 077MP 345TP 047
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538ThP 638ThP 648MP 043TP 048TP 244WP 083WP 083WP 093TP 221WP 724 pm 02:30TP 722WP 716 pm 03:10WP 520WP 520WP 520TP 044MP 253Th 077MP 345ThP 077MP 345TP 047MP 380
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323WP 594MP 424WP 733ThP 528ThP 528ThP 538ThP 672ThP 333MP 764MP 043TP 244WP 083TP 231WP 293MP 542WP 724 pm 02:30TP 724WP 724 pm 03:10WP 520MP 520MP 520MP 520MP 520MP 520MP 520MP 330TP 123MP 520MP 520MP 520MP 520MP 520MP 520MP 345TP 047MP 345TP 047MP 345TP 047
Pappin, Darryl	MP 281MP 681 am 09:50ThP 323ThP 323WP 594MP 424WP 733ThP 528ThP 538ThP 538ThP 638ThP 672ThP 933MP 764MP 043TP 244WP 083WP 089WP 089WP 093TP 231WP 232WP 724 pm 02:30TP 722WP 716 pm 03:10TP 722WP 756 am 08:30TP 044MP 253TP 047MP 380TP 047MP 380TP 047ThP 179ThP 169

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Paša-Tolić, Ljiljana Paschke, Carmen Paschke, Carmen Pascovici, Dana Pasquiers, Stéphane WOE Pasquinelli, Melissa Passmore, David Pastorello, Elisa Patankar, Manish. Patel, Anand Patel, Anand Patel, Bhavin	TP 388MP 414MP 434MP 608 am 08:50TP 745WP 064WP 687WP 044WP 346MP 733TP 573TP 579WP 070WP 516
Paša-Tolić, Ljiljana Paschke, Carmen Paschke, Carmen Pascovici, Dana Pasquiers, Stéphane WOE Pasquinelli, Melissa Passmore, David Pastorello, Elisa Patankar, Manish Patel, Anand Patel, Anand Patel, Bhavin	TP 388MP 414MP 434MP 608 am 08:50TP 745WP 064WP 687WP 044WP 346MP 733TP 573TP 573TP 579WP 070WP 516
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Paša-Tolić, Ljiljana	TP 388MP 414MP 434MP 608 am 08:50TP 745WP 064WP 687WP 044WP 346MP 418MP 733TP 573TP 579WP 070WP 516WP 517WP 700MP 120 am 09:50ThP 704TP 196TP 196TP 080 pm 03:50
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Patterson, Nathan		MP 355
Patterson, Nathan		
Patti, Gary		ThP 468
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Pattillo, Christopher B. Pattillo		
Pauciulo, Michael		TD 003
Pauli, Guido		
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Pauwels, Patrick Paval, Shaunak		IP 300
Pavlenco, Alevtina		IVIP 309
Pavlov, Julius		
Pawar, Mangesh		INP 175
Pawel, Bruce	100	pm 03:30
Pawlak, Katarzyna Pawliszyn, Janusz		IVIP 5/1
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Peake, David		
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Peake, David Peake, David Peake, David Pearson, Amanda Pearson, Amanda		MP 570 ThP 391 ThP 401 ThP 073 TP 295
Peake, David		MP 570 ThP 391 ThP 401 ThP 073 TP 295 ThP 637
Peake, David		MP 570 ThP 391 ThP 401 ThP 073 TP 295 ThP 637 MP 520
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Pena, Gyliann	MP 45	56
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Petriello, Michael	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 113
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Petriello, Michael	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 113 ThP 624 TP 055 TP 127 WP 098
Petriello, Michael Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petrošová, Helena Pětrošová, Helena Pětrošová, Helena Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrovics, Gyorgy Petrut, Alina	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 758 TP 775 MP 03:50 WP 711 ThP 231 ThP 113 ThP 624 TP 055 TP 127 WP 098 TP 413
Petriello, Michael Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petrošová, Helena Pětrošová, Helena Pětrošová, Helena Pětrošová, Helena Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrovics, Gyorgy Petrut, Alina Petrut, Alina Petrut, Alina Pettersen, John Pettit, Michael Pettit, Michael	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 758 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 113 ThP 624 TP 127 WP 098 TP 413 WP 098
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Petriello, Michael Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Petritis, Konstantinos Pětrošová, Helena Pětrošová, Helena Pětrošová, Helena Petrotchenko, Evgeniy Petrotchenk	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 113 ThP 624 TP 055 TP 127 WP 098 ThP 413 TP 004 WP 518
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Petriello, Michael Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petrošová, Helena. Pětrošová, Helena. Pětrošová, Helena. Petrotchenko, Evgeniy. Petrotchenko, Evgeniy. Petrotchenko, Evgeniy. Petrovas, Constantinos. Petrovics, Gyorgy. Petrut, Alina. Petrut, Alina. Petrut, Alina. Petrut, Alina. Petrut, Alina. Petrut, Alina. Pettit, Michael. Pettit, Michael. Pettit, Michael. Pettit, Michael. Petukhova, Valentina. Petway, Marla. Petyuk, Vladislav. Petzold, Elizabeth. TOA Petzold, Svenja. Pevzner, Pavel. Peyrol, Jérémy. Pfammatter, Sibylle.	pm 04:10 MP 115 MP 456 ThP 439 WP 221 MP 385 ThP 359 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 624 TP 055 TP 127 WP 098 ThP 413 TP 064 WP 518 MP 684 TP 106 WP 241 TP 433 TP 433 TP 433 TP 438
Petriello, Michael Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petritis, Konstantinos. Petrošová, Helena Pětrošová, Helena Pětrošová, Helena Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrotchenko, Evgeniy Petrovas, Constantinos. Petrovas, Gyorgy. Petrut, Alina Petrut, Alina Petrut, Alina Petrut, Alina Pettit, Michael Pettit, Michael Pettit, Michael Petukhova, Valentina Petway, Marla Petyuk, Vladislav Petzold, Elizabeth TOA Petzold, Svenja Pevzner, Pavel Peyrol, Jérémy Pfammatter, Sibylle	pm 04:10 MP 115 MP 456 ThP 439 ThP 359 ThP 758 TP 775 MP 037 pm 03:50 WP 711 ThP 231 ThP 113 ThP 624 TP 055 TP 127 WP 098 TP 143 TP 044 WP 518 MP 684 TP 106 WP 241 WP 241 TP 433 TP 433 TP 433 TP 588 MP 029 MP 079
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Pierce, Carrie Pierce, Carrie Pierson, Elizabeth Pieters, Grégory Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pizzi, Grazia	ThOD	MP 048 TP 138 WP 157 TP 366 WP 587 pm 02:30 TP 660 WP 354 TP 690
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Pierce, Carrie Pierce, Carrie Pierson, Elizabeth Pieters, Grégory Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pizzi, Grazia Pijnappel, Matthijs Pike, lan	ThOD	MP 048 TP 138 WP 15 TP 366 WP 58 pm 02:30 TP 660 WP 354 TP 690 WP 058
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth Pieters, Grégory Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pitzzi, Grazia Pijnappel, Matthijs Pike, Ian Pillai, Manoj	ThOD	MP 048 TP 138 WP 157 TP 366 WP 587 pm 02:30 TP 660 WP 354 TP 690 WP 058 TP 570
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Pitzzi, Grazia Pijnappel, Matthijs Pike, Ian Pillai, Manoj Pillai, Manoj	ThOD	MP 048 TP 138 WP 157 TP 366 WP 587 pm 02:30 TP 660 WP 354 TP 690 WP 058 WP 058
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pike, lan Pillai, Manoj Pillai, Manoj Pillai, Manoj	ThOD	MP 048TP 138WP 15TP 366WP 58 pm 02:30TP 660WP 352TP 690WP 057MP 176MP 176
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth Pieters, Grégory Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pike, lan Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj	ThOD	MP 048TP 138WP 15'WP 15'WP 58' pm 02:3TP 690WP 354TP 690WP 056MP 766MP 176MP 176MP 704TP 092
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia. Pijnappel, Matthijs. Pike, Ian. Pillai, Manoj	ThOD	MP 048TP 138WP 15'TP 366WP 58' pm 02:36TP 666WP 352TP 670MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 176
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth Pieters, Grégory. Pieters, Roland Pieterse, Mervin Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pike, Ian Pillai, Manoj	ThOD	MP 046TP 138WP 15TP 366WP 58 pm 02:30TP 660WP 35TP 690WP 057MP 176MP 176MP 176MP 704ThP 144
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pilke, Ian Pillai, Manoj	ThOD	MP 048TP 138WP 157WP 58 pm 02:30TP 660WP 354TP 690WP 058TP 667MP 176MP 176MP 176MP 176TP 570TP 571
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin Pigg, Kathryn Pitzzi, Grazia Pijnappel, Matthijs Pilke, Ian Pillai, Manoj	ThOD	MP 046TP 138WP 157WP 158 pm 02:30TP 660WP 354TP 690WP 055TP 170MP 167MP 170TP 170TP 170TP 170TP 142ThP 143
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pike, Ian Pillai, Manoj	ThOD	MP 048TP 138WP 157TP 366WP 587 pm 02:30TP 666WP 354TP 656MP 176MP 176MP 176TP 142ThP 145ThP 145ThP 145ThP 145ThP 145ThP 145ThP 386TP 586
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia. Pijnappel, Matthijs Pike, Ian. Pillai, Manoj	ThOD	MP 046TP 138WP 15'TP 366WP 58' pm 02:30TP 666WP 352TP 695TP 570MP 176MP 176MP 176TP 142ThP 142ThP 286TP 538TP 538TP 538WP 055
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Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pijnai, Manoj Pillai, Manoj	ThOD	MP 046TP 138WP 15WP 58WP 58TP 660WP 354TP 690WP 057MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 186MP 192ThP 144ThP 145ThP 145
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pillai, Manoj	ThOD	MP 048TP 138WP 15WP 58WP 58TP 660WP 35TP 690WP 057MP 176MP 176MP 176MP 186TP 570MP 186MP 186WP 186WP 186WP 186MP 186
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pilke, Ian Pillai, Manoj	ThOD	MP 048TP 138WP 157TP 366WP 587 pm 02:30TP 666WP 354TP 656MP 176MP 176MP 142Th 143Th 143Th 280TP 280TP 392WP 052MP 003MP 180WP 084MP 180WP 188WP 188WP 188WP 188WP 188WP 188WP 368WP 368
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Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs. Pike, Ian Pillai, Manoj Pillai, Renuka	ThOD	MP 046TP 138WP 157TP 366WP 587 pm 02:30TP 666WP 354TP 67MP 176MP 176MP 176MP 176MP 176MP 176MP 142ThP 143ThP 143ThP 143ThP 145ThP 145ThP 146ThP 146ThP 147ThP 146ThP 147ThP 147ThP 147ThP 153WP 053WP 189WP 189WP 189WP 189TP 166TP 166TP 167
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs. Pike, Ian Pillai, Manoj Pillai, Renuka	ThOD	MP 046TP 138WP 15WP 58WP 58P 366TP 666WP 354TP 67MP 176MP 176MP 176MP 176MP 176MP 189MP 144ThP 143ThP 145ThP 145MP 052WP 052WP 053WP 053WP 189WP 18
Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pillai, Manoj Pillai, Renuka Pillutla, Renuka Pillutla, Renuka Pillutla, Renuka	ThOD	MP 046TP 138WP 15WP 58WP 58WP 58TP 660WP 35TP 690WP 057MP 176MP 176MP 176MP 176MP 176MP 186MP 192ThP 145ThP 153WP 188WP 052WP 052MP 063MP 1063TP 077TP 077
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs Pillai, Manoj Pillai, Renuka Pillutla, Renuka	ThOD	MP 048TP 138WP 157TP 366WP 587 pm 02:30TP 666WP 352TP 656MP 176MP 176MP 1667MP 142ThP 143ThP 143ThP 145ThP 145ThP 145ThP 145ThP 145ThP 145ThP 156TP 576MP 056TP 576MP 176TP 176TP 176TP 176TP 177TP 176TP 177
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Pizzi, Grazia. Pijnappel, Matthijs Pike, Ian. Pillai, Manoj Pillai, Renuka Pillutla, Renuka Pillo, Alice Pimentel, Adam Ping, Lingyan	TOH	MP 046TP 138WP 157TP 366WP 587 pm 02:30TP 666WP 354TP 367MP 176MP 176MP 176MP 176MP 176MP 1667MP 142ThP 143ThP 143TP 286WP 055WP 055WP 056MP 177MP 177MP 177MP 177MP 177TP 177TP 177
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Pizzi, Grazia Pijnappel, Matthijs Pike, Ian Pillai, Manoj Pillai, Renuka Pillutla, Renuka Pilo, Alice Pimentel, Adam Ping, Lingyan	ThOD	MP 046TP 138WP 15TP 366WP 58 pm 02:30TP 666WP 354TP 67MP 176MP 176MP 176MP 176MP 176MP 142ThP 142ThP 28TP 538WP 055MP 176MP 176MP 176MP 177TP 538WP 059WP 189WP 189WP 176MP 177TP 177TP 177TP 177TP 177TP 177
Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs. Pike, Ian Pillai, Manoj Pillai, Renuka Pillutla, Renuka Pilo, Alice Pimentel, Adam Ping, Lingyan Ping, Lingyan	ThOD	MP 046TP 138WP 15TP 366WP 58 pm 02:30TP 666WP 354TP 67MP 176MP 176MP 176MP 176MP 176MP 176MP 176MP 189WP 059MP 189WP 059MP 189MP 189TP 189
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Pierce, Carrie Pierce, Carrie Pierce, Carrie Pierson, Elizabeth. Pieters, Grégory. Pieters, Roland Pieterse, Mervin. Pigg, Kathryn Piizzi, Grazia Pijnappel, Matthijs. Pike, Ian Pillai, Manoj Pillai, Renuka Pillutla, Renuka Pilo, Alice Pimentel, Adam Ping, Lingyan Ping, Lingyan	ThOD	MP 046TP 138WP 15WP 58WP 58WP 58WP 356TP 660WP 357MP 176MP 176MP 176MP 176MP 176MP 176MP 186MP 186MP 186MP 186MP 186WP 186WP 186WP 186WP 186MP 176MP 187MP 187MP 187MP 188WP 186MP 198MP 198

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Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760
Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533
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Plumb, Robert	TP 561 WP 250 WP 569 WP 431 MP 244 ThP 760 ThP 533 MP 098 ThP 158 ThP 618
Plumb, Robert	TP 561 WP 250 WP 569 WP 431 MP 244 ThP 760 ThP 533 MP 098 ThP 158 ThP 618
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Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 618ThP 618ThP 716 WOH am 09:50
Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10
Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081
Plumb, Robert	TP 561WP 250WP 509WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081TP 203
Plumb, Robert. Plumb, Robert. Pluskal, Tomáš Poad, Berwyck Podany, Anthony Podar, Mircea. Poddar, Surbhi Poddorski, Matthew Podolak, Jennifer Poe, Timothy Poehls, Abigail Poetz, Oliver. Pohl, Nicola. Pointexter, Carlton Pokorny, Antje	TP 561WP 250WP 569WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081TP 203MP 500
Plumb, Robert. Plumb, Robert. Plumb, Robert. Pluskal, Tomáš Poad, Berwyck Podany, Anthony Podar, Mircea. Poddar, Surbhi Poddorski, Matthew Podolak, Jennifer. Poe, Timothy. Poehls, Abigail Poetz, Oliver. Pohl, Nicola. Pointexter, Carlton Pokorny, Antje Polaczek, Christine.	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 158ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081TP 203MP 500TP 296
Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081TP 203MP 500TP 296MOD pm 04:10
Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 618ThP 618MP 222 ThOF am 09:10ThP 081TP 203MP 506MP 250TP 296
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Plumb, Robert	TP 561WP 250WP 569WP 431MP 244ThP 760ThP 533MP 098ThP 158ThP 618ThP 716 WOH am 09:50MP 222 ThOF am 09:10ThP 081TP 203MP 500TP 296MOD pm 04:10TP 506TP 506TP 728WP 491

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Popov, Marla	am 09:50TP 581ThP 603MP 690 am 09:10WP 372ThP 007TP 328MP 741ThP 283ThP 315TP 174TP 498WP 496TP 473 am 08:30TP 502WP 641WP 076TP 210MP 523 pm 03:50
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Pulliam, Christopher Pullman, Benjamin	am 1MPMPMPTPTP pm 0TPMPTPMPTPTPTPTPTP	0:10 380 443 444 445 129 538 4:10 522 300 599 531 128 447 3:50 143 243 188
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Pulliam, Christopher Pullman, Benjamin	am 1 MP MP MP MP TP WP TP WP TP MP TP ThP ThP ThP ThP TP	0:10 380 443 444 159 129 535 4:10 522 300 537 138 447 3:50 143 243 185 207 534
Pulliam, Christopher Pullman, Benjamin	am 1 · · · · MP · · · · MP · · · · MP · · · ·	0:10 380 443 442 445 129 535 4:10 160 522 300 531 128 447 3:50 143 243 185 20 534 535
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Pulliam, Christopher Pullman, Benjamin	am 1 MP MP MP MP TP pm 0 TP pm 0 TP pm 0 ThP MP TP pm 0 TP	0:10 380 438 442 445 128 538 4:10 166 522 300 531 128 447 3:50 420 420 420 420 420 420 420 420 420 42
Pulliam, Christopher Pullman, Benjamin	am 1 MP MP MP MP TP pm 0 TP pm 0 TP pm 0 ThP MP TP pm 0 TP	0:10 380 438 442 445 128 538 4:10 166 522 300 531 128 447 3:50 420 420 420 420 420 420 420 420 420 42
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Qian, Kuangnan	.TOH pm 04:10
Qian, Kun	
Qian, Mark	
Qian, Rong	
Qian, Shuo	
Qian, Wei-Jun	ThOG am 08:50
Qian, Wei-Jun	ThP 113
Qian, Wei-Jun	
Qian, Wei-Jun	
Qian, Wei-Jun	
Qiao, Rui	
Qiao, Rui	
Qin, Feng	
Qin, Feng	
Qin, Feng	TP 217
Qin, Feng	WP 157
Qin, Feng	
Qin, Feng	
Qin, Feng	
Qin, Guoting	
Qin, Jun	
Qin, Jun	
Qin, Yuhong	
Qiu, Feng	
Qiu, Feng	
Qiu, Haibo	MP 674
Qiu, Jiamin	TP 400
Qiu, Ran	WP 115
Qiu, Wenying	
Qiu, Xi	
Qiu, Yunping	
Qu, Haiou	N/D 442
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Qu , Jun	
Qu , Jun	
Qu , Jun	ThP 740
Qu , Jun	ThP 745
Qu , Jun	TP 597
Qu , Jun	
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Qu, Jun	
Qu, Xiaotao	
Qu, Yanyan	
Quach, Austin	
Quack, Thomas	
Quade, Sue	WP 319
Quaglia, Milena	WP 682
Qualley, Anthony	MP 122
Quan, Taihao	
Quanair, Asem	
Quang, Changyu	WP 755
Quanico. Jusal	
Quaranta, Alessandro	
Quarmby, Scott	
Quebbemann, Neil	
Queiroz, Emerson	
Queiroz, Rayner	
Queisser, Markus	
Quiason-Huynh, Cristine	
Quijada, Jeniffer	MOE pm 02:30
Quijada, Jeniffer	ThP 111
Quilici, David	MP 603
Quimby, Bruce	TP 187
Quimby, Bruce	
Quimby, Bruce	
Quinn, Chad	
Quinn, ChadQuinn, Kevin	
Quinn, Robert	
Quinton, Loic	
Quinton, Loïc	
Quinton, Loïc	
Quinton, Loïc	WP 479
Quiring, Gregor	WOH pm 04:10
Quoc Tuc, Dinh	
Raab, Michal	
Raab, Michal	
Raab, Shannon	
Raab, Shannon	TOC am 00-50
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Raab, Shannon		
,	WOH	am 09:50
Rabaglia, Mary	. MOE	pm 02:50
Rabant, Marion Rabara, Taylor		
Rabinovitch, Marlene		
Rabinowitz, Joshua		
Rabus, Jordan		MP 289
Rabus, Jordan		
Race, Alan		
Racle, Julien		MP 596
Rácz, Norbert Radaoui, Alexander	TOD	1F 200
Radchenko, Tatiana		MP 097
Raddatz, Michael		
Räder, Hans Joachim		
Radford, Sheena		TP 610
Radovanovic, Nataša Radu, Marius		
Raedschelders, Koen		
Raether, Oliver		
Raether, Oliver		.ThP 089
Raether, Oliver Raether, Oliver	TOA	pm 02:30
Raether, Oliver		TP 375
Raether, Oliver		
Raether, Oliver		IP 678
Raether, Oliver Raffaella, Bianucci	WOH	DU 05:30
Raffatellu, Manuela	WOA	am 09·10
Rafson, Jessica		.ThP 185
Rafson, Jessica		.ThP 200
Raftery , Daniel Raghuraman , Bharath Kumar		WP 589
Rahlouni, Fatima		
Rahlouni, Fatima		
Rahman, A.F.M Rahman, Ziaur		IVIP 093
Rai, Alex		IVIF 392
Rai, Amit		
Rai, Vineeta		TP 183
Rains, Sarah	TOA	nm 04·10
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Rainville, Paul		MP 497
Rainville, Paul Rainville, Paul		MP 497 WP 613
Rainville, Paul Rainville, Paul Raisis, Anthea		MP 497 WP 613 TP 773
Rainville, Paul Rainville, Paul Raisis, Anthea Raja, Huzefa		MP 497 WP 613 TP 773 ThP 578
Rainville, Paul Rainville, Paul Raisis, Anthea Raja, Huzefa Raja, Huzefa		MP 497 WP 613 TP 773 ThP 578 ThP 585
Rainville, Paul Rainville, Paul. Raisis, Anthea Raja, Huzefa Rajan, Arun Rajanayake, Krishani		MP 497WP 613TP 773ThP 578ThP 585MP 705
Rainville, Paul Rainville, Paul. Raisis, Anthea Raja, Huzefa Rajan, Arun Rajanayake, Krishani. Rajarshi, Girija		MP 497WP 613TP 773ThP 578ThP 585MP 705TP 374
Rainville, Paul	ThOC	MP 497WP 613TP 773ThP 578ThP 585MP 705TP 374TP 322 pm 03:10
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Rainville, Paul. Rainville, Paul. Rainville, Paul. Raisis, Anthea	ThOC	MP 497 WP 613 TP 773 ThP 578 ThP 585 MP 705 TP 374 TP 322 pm 03:10 MP 117 MP 758
Rainville, Paul	ThOC	MP 497 WP 613 TP 773 ThP 578 ThP 585 MP 705 TP 374 TP 322 pm 03:10 MP 117 MP 758
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Rainville, Paul	ThOC stenser	MP 497WP 613ThP 578ThP 588MP 708TP 374TP 322 pm 03:10MP 788WP 064WP 436 saMP 414ThP 532TP 776TP 776
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Rainville, Paul	ThOC tenser MOC MOC TOD	MP 497WP 613ThP 578ThP 588MP 708TP 374TP 322 pm 03:10MP 117MP 768WP 064WP 436 saMP 414ThP 532TP 776TP 672TP 612WP 512WP 512WP 621 am 10:10 pm 03:30
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Rainville, Paul. Rainville, Paul. Rainville, Paul. Rainsis, Anthea	ThOC stenser MOC MOC MOC WOA	MP 497WP 613ThP 576ThP 576ThP 578ThP 578ThP 374TP 322 ppm 03:10MP 117MP 158WP 064WP 064WP 436ThP 532ThP 125 ppm 02:56ThP 125 ppm 03:30ThP 448WP 512WP 621 am 10:10 ppm 03:30ThP 488ThP 689 am 09:56ThP 281ThP 498ThP 149 pm 03:30ThP 149ThP 408ThP 408ThP 408ThP 408ThP 408ThP 408ThP 408ThP 145
Rainville, Paul. Rainville, Paul. Rainville, Paul. Rainsis, Anthea Raja, Huzefa. Raja, Huzefa. Rajan, Arun Rajanayake, Krishani. Rajarshi, Girija Rajbhandari, Presha Rajczewski, Andrew Rajczewski, Andrew Rajczewski, Andrew Rajpal, Arvind. Rakownikow, Rosa Jersie-Christense Ralph, Peter Ralphe, J. Carter Ralser, Markus. Rama, Paolo Ramachandran, Bini Ramachandran, Sumankalai Ramagiri, Suma Ramaker, Raymond. Ramanathan, Dil. Ramanathan, Dil. Ramanathan, Ragu Ramanathan, Ragu Ramasamy, Pathmanaban Rame, J. Ramesha, Supriya Ramirez, Cesar Ramirez, Cesar Ramirez, Cesar Ramirez, Juan Ramirez, Juan Ramirez, Miguel	ThOC ttenser MOC MOC MOC WOA	MP 497WP 613ThP 576ThP 576ThP 585MP 705TP 374TP 322 ppm 03:10MP 175MP 175MP 436MP 436MP 456MP 641TP 673ThP 582MP 512MP 512MP 512MP 621MP 621MP 621MP 621MP 621MP 621MP 633ThP 145MP 036ThP 145MP 036ThP 145ThP 145ThP 145TP 145TP 145TP 145TP 145TP 145TP 1683TP 1683TP 1683TP 1685TP 1685
Rainville, Paul. Rainville, Paul. Rainville, Paul. Raisis, Anthea Raja, Huzefa. Raja, Huzefa. Rajan, Arun Rajanayake, Krishani. Rajarshi, Girija Rajbhandari, Presha Rajczewski, Andrew Rajczewski, Andrew Rajczewski, Andrew Rajpal, Arvind. Rakownikow Jersie-Christense Ralph, Peter Ralphe, J. Carter Ralser, Markus. Rama, Paolo Ramachandran, Bini Ramachandran, Sumankalai. Ramagiri, Suma Ramaker, Raymond. Ramamoorthy, Ayyalusamy Raman, Pichai Ramanathan, Dil. Ramanathan, Ragu Ramanathan, Ragu Ramanathan, Ragu Ramasamy, Pathmanaban Rame, J Ramesha, Supriya Rames, Ramesha, Supriya Ramiez, Cesar	ThOC ThOC MOC MOC MOC WOA WOA	MP 497WP 613ThP 578ThP 578ThP 588MP 705TP 374TP 372TP 322MP 175MP 175MP 175MP 175MP 177TP 673TP 125MP 621 am 10:10 pm 03:30ThP 147 pm 04:10ThP 176ThP 186 am 09:50ThP 28ThP 187ThP 188ThP 188

Ramos Ferrari, Allan	MP 033
Ramos Madrigal, Jazmin	.MOH pm 03:10
Ramos Madrigal, Jazmin	TP 028
Rampitsch, Christof	MP 622
Rampitsch, Michelle	
Rampitsch, Michelle	IVIF 022
Ramsay, John	VVP 584
Ramsey, J	ThP 557
Ramsøe, Abigail	.MOH pm 03:50
Ran, Xiaorong	TP 188
Ranasinghe, Asoka	MP 544
Ranasinghe, Asoka	\\\D 405
Dankadana Nijini	VVF 400
Ranbaduge, Nilini	IVIP 6/2
Ranbaduge, Nilini	
Rand, Kasper	TP 335
Randolph, Caitlin	WOG am 08:50
Rane, Shailendra	TP 595
Rane, Shailendra	TD 7/6
Para Nancia	IF 740
Rangan, Vangipuram	VVP 064
Ranganathan, Nandhini	MP 462
Ranganathan, Nandhini	TP 292
Ranganathan, Nandhini	.WOB pm 03:50
Rangaraju, Srikant	ThP 736
Rangaswamy, Udaya	ThD 437
Rangaswaniy, Odaya	1115 437
Rangel, Vanessa	
Ranjbaran, Ali	ThP 619
Rank, Johannes	. MOA pm 02:30
Rankin-Turner, Stephanie	TP 267
Rankovic, Zoran	TD 370
David Zaran	
Rankovic, Zoran	VVP 235
Rao, Chetana	WP 064
Rao, Chirag	. MOF pm 03:50
Rao, Nalini	TP 659
Rao, Rajiv	TP 013
Rao, Wei	\A/D 010
Rao, vvei	VVP 012
Rao, Wei	WP 019
Rappe, Sophie	TP 361
Rappold, Brian	TP 102
Rappold, Brian	\/\P 174
Danneilher luri	MD 060
Rappsilber, Juri	MP 060
Rappsilber, Juri Rardin, Matthew	MP 060 ThP 353
Rappsilber, Juri Rardin, Matthew Rardin, Matthew	MP 060 ThP 353 ThP 708
Rappsilber, Juri Rardin, Matthew Rardin, Matthew	MP 060 ThP 353 ThP 708
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap	MP 060 ThP 353 ThP 708 MP 185
Rappsilber, Juri	MP 060 ThP 353 ThP 708 MP 185 ThP 175
Rappsilber, Juri	MP 060ThP 353ThP 708MP 185ThP 175
Rappsilber, Juri	MP 060ThP 353ThP 708MP 185ThP 175TP 161
Rappsilber, Juri	MP 060
Rappsilber, Juri	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746
Rappsilber, Juri	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746
Rappsilber, Juri Rardin, Matthew Rasam, Pratap Rasam, Sailee Rasam, Sailee	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 ThP 745
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasand, Faraz	MP 060 ThP 353 ThP 765 MP 185 TTP 175 TP 161 TP 595 TP 746 MP 697 MP 667
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz.	MP 060 ThP 353 ThP 753 MP 185 TTP 175 TP 161 TP 595 TP 746 MP 699 MP 667 MP 667
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz Rashid, Faraz Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 MP 667 MP 704 ThP 704
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz	MP 060 ThP 353 ThP 7085 MP 185 ThP 175 TP 161 TP 595 MP 699 ThP 745 MP 699 ThP 745 MP 670 MP 704 ThP 092
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz	MP 060 ThP 353 ThP 7085 MP 185 ThP 175 TP 161 TP 595 MP 699 ThP 745 MP 699 ThP 745 MP 670 MP 704 ThP 092
Rappsilber, Juri Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 ThP 745 MP 667 MP 7092 WP 095
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz Raska, Milan	MP 060 ThP 353 ThP 705 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 ThP 745 MP 667 MP 704 ThP 092 WP 095 WP 052
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasam, Sailee Rashid, Faraz Rashid, Faraz Rashid, Faraz Rashid, Faraz Rashid, Faraz Rashid, Faraz Raskid, Faraz	MP 060 ThP 353 ThP 703 MP 185 TTP 161 TP 595 TP 746 MP 667 MP 667 MP 704 ThP 704 ThP 092 WP 095 WP 052 WP 342 TP 649
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz Rashid, Faraz Rashid, Faraz Rasid, Faraz Rasid, Faraz Rasid, Faraz Raskid, Faraz	MP 060 ThP 353 ThP 705 MP 185 TTP 175 TP 161 TP 595 TP 746 MP 697 MP 667 MP 704 ThP 7092 WP 052 WP 052 WP 342 TP 649
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz.	MP 060 ThP 353 ThP 705 MP 185 TTP 175 TP 161 TP 595 TP 746 MP 697 MP 667 MP 704 ThP 704 ThP 355 WP 052 WP 342 TP 649 TP 335 WP 243
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz.	MP 060 ThP 353 ThP 705 MP 185 TTP 175 TP 161 TP 595 TP 746 MP 697 MP 667 MP 704 ThP 704 ThP 355 WP 052 WP 342 TP 649 TP 335 WP 243
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 MP 667 MP 7092 WP 052 WP 052 WP 342 TP 649 TP 649 TP 649
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 353 ThP 753 MP 185 MP 185 ThP 175 TP 161 TP 595 MP 667 MP 704 MP 699 ThP 704 ThP 092 WP 095 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz Rashid, Fara	MP 060 ThP 353 ThP 763 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 704 ThP 092 WP 095 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 640
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasam, Sailee Rashid, Faraz Rashid,	MP 060 ThP 353 ThP 705 MP 185 TTP 161 TP 595 TP 746 MP 667 MP 667 MP 704 ThP 704 ThP 335 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 159 WOH am 09:10
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz	MP 060 ThP 353 ThP 765 MP 185 TTP 161 TP 595 TP 746 MP 697 MP 704 ThP 704 ThP 335 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 640 MP 159 WO 150
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz	MP 060 ThP 353 ThP 765 MP 185 TTP 161 TP 595 TP 746 MP 697 MP 704 ThP 704 ThP 335 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 640 MP 159 WO 150
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 WP 052 WP 052 WP 052 WP 342 TP 649 TP 333 TOD pm 03:30 MP 640 MP 159 WO H am 09:10 WP 710 ThP 734
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasami, Sailee Rashid, Faraz Rasid, Faraz Rasid, Faraz Rasid, Faraz Rasid, Faraz Rasid, Faraz Rashid,	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 MP 708 WP 052 WP 052 WP 342 TP 649 TP 649 MP 670 MP 640 MP 159 WOH am 09:10 ThP 734
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz.	MP 060 ThP 353 ThP 759 MP 185 ThP 175 TP 161 TP 595 MP 667 MP 704 MP 699 ThP 704 ThP 052 WP 052 WP 052 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 159 WOH am 09:10 ThP 734 TP 651 ThP 059
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 699 ThP 745 MP 667 MP 704 ThP 092 WP 095 WP 052 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 667 MP 159 WOH am 09:10 ThP 734 TP 656
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 TTP 161 TP 595 TP 746 MP 667 MP 667 MP 704 ThP 704 ThP 335 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 649 MP 159 WOH am 09:10 ThP 734 TP 656 TP 656
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 TTP 161 TP 595 TP 746 MP 667 MP 667 MP 704 ThP 704 ThP 335 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 649 MP 159 WOH am 09:10 ThP 734 TP 656 TP 656
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 363 ThP 768 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 MP 667 MP 709 WP 052 WP 342 TP 649 TP 649 TP 363 WP 243 TOD pm 03:30 MP 640 MP 159 WOH am 09:10 ThP 734 TP 651 ThP 059 MP 656 WP 685
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Sailee Rasami, Sailee Rashid, Faraz Rasmussen, Angela Rasmussen, Søren Rasmussen, Siren Rasmussen, Siren Raulpach, Christopher Raulpach, Raulpach, Stephan Raulpach, Baerbel Rauschenbach, Stephan Rawall, Baibhav Rawall, Baibhav Rawer, Stephan Rawlins, Catherine	MP 060 ThP 353 ThP 708 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 WP 052 WP 052 WP 052 WP 342 TP 649 TP 649 MP 670 MP 159 WP 052 WP 342 TP 649 TP 345 WP 243 TOD pm 03:30 MP 640 MP 159 WOH am 09:10 ThP 734 ThP 059 TP 656 ThP 059 TP 656 TP 656 TP 050 WP 685 TP 040
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 363 ThP 768 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 704 ThP 092 WP 095 WP 052 WP 342 TP 649 TP 649 TP 335 WP 243 TOD pm 03:30 MP 640 MP 159 WOH am 09:10 ThP 734 TP 651 ThP 059 TP 666 WP 685 TP 040 MP 189 MP 199 MP 199 MP 199 MP 199 MP 342 TP 649 TP 345 TP 649 MP 159 MP 443 TOD pm 03:30 MP 640 MP 159 MP 640
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasam, Sailee. Rasamid, Faraz. Rashid, Faraz.	MP 060 ThP 363 ThP 768 MP 185 MP 185 ThP 175 TP 161 TP 595 MP 667 MP 704 ThP 092 WP 092 WP 093 TP 649 TP 335 WP 243 TOD pm 03:30 MP 660 MP 159 WOH am 09:10 WP 710 ThP 704 ThP 059 MP 250 MP 360 MP 159 MP 250 MP 350 MP 35
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rashid, Faraz	MP 060 ThP 353 ThP 708 MP 185 TTP 161 TP 595 TP 746 MP 667 MP 704 ThP 704 ThP 335 WP 052 WP 052 WP 342 TP 649 TP 459 WP 052 WP 349 TP 649 TP 745 MP 667 MP 704 TP 656 WP 685 TP 040 MP 342 TP 656 WP 685 TP 040 MP 342 TP 656
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 363 ThP 768 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 MP 667 MP 709 WP 052 WP 342 TP 649 TP 363 MP 640 MP 159 WOH am 09:10 WP 710 ThP 734 TP 651 ThP 758 WP 685 TP 040 MOH pm 02:30 MP 342 TP 735
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 363 ThP 768 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 MP 667 MP 709 WP 052 WP 342 TP 649 TP 363 MP 640 MP 159 WOH am 09:10 WP 710 ThP 734 TP 651 ThP 758 WP 685 TP 040 MOH pm 02:30 MP 342 TP 735
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasami, Sailee. Rasami, Sailee. Rashid, Faraz Rashid, F	MP 060 ThP 363 ThP 708 MP 185 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 704 MP 092 WP 095 WP 052 WP 342 TP 649 TP 364 MP 640 MP 159 WOH am 09:10 ThP 734 ThP 059 ThP 754 MP 656 MP 658 TP 040 MP 179 MOH pm 02:30 MP 342 MP 342 MP 342 MP 656 MP 656 MP 656 MP 656 MP 656 MP 656 MP 658
Rappsilber, Juri Rardin, Matthew Rardin, Matthew Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Pratap Rasam, Sailee Rasam, Sailee Rashid, Faraz Ra	MP 060 ThP 363 ThP 768 MP 185 ThP 175 TP 161 TP 595 TP 746 MP 667 MP 708 WP 052 WP 052 WP 342 TP 649 TP 649 MP 109 WP 710 MP 680 MP 159 WP 243 TOD pm 03:30 MP 640 MP 159 WOH am 09:10 ThP 734 TP 656 WP 685 TP 040 MOH pm 02:30 MP 342 TP 735 WP 319 MP 342 TP 735 MP 342 TP 735 MP 342 TP 735 MP 349 MP 548 MP 019 MP 649
Rappsilber, Juri Rardin, Matthew. Rardin, Matthew. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Pratap. Rasam, Sailee. Rasam, Sailee. Rasami, Sailee. Rashid, Faraz.	MP 060 ThP 353 ThP 753 MP 185 MP 185 ThP 175 TP 161 TP 595 MP 667 MP 704 ThP 092 WP 095 WP 052 WP 052 WP 342 TP 649 TP 335 WP 243 TOD pm 03:30 MP 159 WOH am 09:10 WP 710 ThP 050 ThP 734 ThP 050 ThP 656 TP 040 MP 199 TP 050 MP 649 TP 735
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Reiss, Julius	
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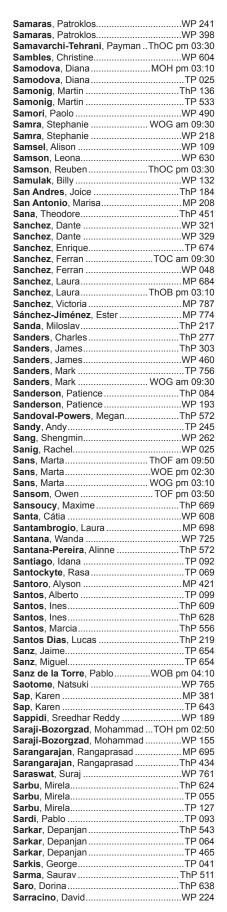
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Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 359 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 359 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 359 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 354 MP 751 MOC am 09:30 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 154 WP 277 WP 285 WP 532
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 354 MP 751 MOC am 09:30 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 354 MP 751 MOC am 09:30 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosnack, Renneth	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 369 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 369 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenflatt, Mike Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 369 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 136 WP 036 WP 036
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 196 WP 196 WP 250 MP 196
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfled, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 196 WP 196 WP 250 MP 196
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Ro	MP 657 ThP 699 ThP 354 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 113 ThP 196 WP 036 WP 196 WP 036 MP 142 MP 183
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosner, Inger Ross, Alastair Ross, Chris Ross, Chris Ross, Dylan Ross, Euan Ross, Euan	MP 657 ThP 699 ThP 354 MP 751 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 MP 285 MP 532 ThP 113 ThP 196 WP 036 WOF pm 02:50 MP 142
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 397 ThP 397 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 036 WP 142 MP 183 WP 036 WP 183 WP 377 WP 183
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosner, Inger Ross, Alastair Ross, Chris Ross, Chris Ross, Dylan Ross, Euan Ross, Euan	MP 657 ThP 699 ThP 397 ThP 397 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 036 WP 142 MP 183 WP 036 WP 183 WP 377 WP 183
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfled, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 369 ThP 379 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 MP 086 WP 142 MP 183 ThP 196 MP 532 ThP 113
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosner, Inger Ross, Alastair Ross, Chris Ross, Dylan Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Robert Ross, Robert	MP 657 ThP 699 ThP 359 MP 742 MP 692 MP 742 MP 183 TP 170 MP 183 MP 185 MP 156 WP 220 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 110 MP 183 MP 183 MP 183 ThP 183 ThP 183 ThP 183 ThP 183 ThP 185 MP 277 MP 285 MP 532 ThP 595
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 MP 285 WP 532 ThP 113 ThP 196 MP 142 MP 183 WP 277 MP 285 WP 572 ThP 592 ThP 592 ThP 592 ThP 598
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 MP 285 WP 532 ThP 113 ThP 196 MP 142 MP 183 WP 277 MP 285 WP 572 ThP 592 ThP 592 ThP 592 ThP 598
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Michael Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Ro	MP 657 ThP 699 ThP 354 MP 751 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 277 WP 285 MP 183 ThP 113 ThP 196 WP 392 ThP 592 ThP 598 WP 634 TOA am 09:10
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 142 MP 183 TP 170 TP 515 TP 170 TP 515 TP 170 TP 515 TP 170 TP 515 TP 592 TP 532 TP 592 TP 534 TP 592 TP 534 TP 594 TP 773
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 142 MP 183 TP 170 TP 515 TP 170 TP 515 TP 170 TP 515 TP 170 TP 515 TP 592 TP 532 TP 592 TP 534 TP 592 TP 534 TP 594 TP 773
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 369 ThP 379 MP 692 MP 742 MP 742 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 133 ThP 196 WP 036 WP 142 MP 183 ThP 196 ThP 592 ThP 593 ThP 592 ThP 598 WP 634 TOA am 09:10 TP 773 TP 606
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 369 ThP 378 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 154 MP 183 ThP 196 ThP 519 MP 183 ThP 196 ThP 519
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 160 MP 142 MP 183 WP 177 MP 285 MP 196 ThP 519 MP 196 MP 197 MP 197 MP 197 MP 198 MP 197 MP 198 MP 198 MP 197 MP 198 MP 198 MP 197 MP 198 MP 198 MP 198 MP 198 MP 198 MP 199 ThP 598 MP 634 TOA am 09:10 TP 773 TP 606 ThP 519 ThOA am 08:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 160 MP 142 MP 183 WP 177 MP 285 MP 196 ThP 519 MP 196 MP 197 MP 197 MP 197 MP 198 MP 197 MP 198 MP 198 MP 197 MP 198 MP 198 MP 197 MP 198 MP 198 MP 198 MP 198 MP 198 MP 199 ThP 598 MP 634 TOA am 09:10 TP 773 TP 606 ThP 519 ThOA am 08:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosn, Robert Ross, Chris Ross, Chris Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Robert Ross, Robert Ross, Robert Ross, Robert Rossi, Mara Rossmassler, Karen Röst, Hannes	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WP 154 MP 183 ThP 196 ThP 598 ThP 598 ThP 598 TP 634 TOA am 09:10 ThP 519 ThOA am 08:30 TOA pm 02:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WOF pm 02:50 MP 142 MP 183 WP 532 ThP 170 MP 183 WP 532 ThP 592 ThP 592 ThP 593 ThP 594 TOA am 09:10 TP 773 TP 606 ThP 519 ThO 36:30 TOA pm 02:30 WOH pm 02:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosnac	MP 657 ThP 699 ThP 354 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 WP 036 WOF pm 02:50 MP 142 MP 183 WP 532 ThP 170 MP 183 WP 532 ThP 592 ThP 592 ThP 593 ThP 594 TOA am 09:10 TP 773 TP 606 ThP 519 ThO 36:30 TOA pm 02:30 WOH pm 02:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 369 ThP 379 MP 692 MP 742 MP 742 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 MP 183 TP 170 TP 780 MP 154 MP 156 MP 777 MP 532 ThP 170 MP 154 MP 183 MP 277 MP 636 MP 174
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosner Ross, Alastair Ross, Alastair Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Robert Ross, Robert Ross, Robert Rossell, David. Rossi, Gabriele Rossi, Mara Rossmassler, Karen Röst, Hannes Röst, Hannes Röst, Hannes Rosu, Frédéric Rosu, Frédéric	MP 657 ThP 699 ThP 397 ThP 397 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 MP 036 WOF pm 02:50 MP 142 MP 183 ThP 196 ThP 592 ThP 592 ThP 593 ThP 593 ThP 593 ThP 593 ThP 594 ThP 595 ThP 596 MP 634 TOA am 09:10 TP 773 TP 606 ThP 519 ThOA am 08:30 WOH pm 02:30 WOH pm 02:30 WOH pm 02:30 WOH pm 02:30 MOF am 09:30 ThOB am 09:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord,, Edward Rosinski, Jim Rosnack, Kenneth Rosna	MP 657 ThP 699 ThP 397 ThP 397 ThP 511 MOC am 09:30 MP 692 MP 742 TP 780 MP 142 MP 183 TP 170 TP 515 WP 020 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 113 ThP 196 MP 036 WOF pm 02:50 MP 142 MP 183 ThP 196 ThP 592 ThP 592 ThP 593 ThP 593 ThP 593 ThP 593 ThP 594 ThP 595 ThP 596 MP 634 TOA am 09:10 TP 773 TP 606 ThP 519 ThOA am 08:30 WOH pm 02:30 WOH pm 02:30 WOH pm 02:30 WOH pm 02:30 MOF am 09:30 ThOB am 09:30
Rosenblatt, Michael Rosenblatt, Michael Rosenblatt, Mike Rosenfeld, Cheryl Rosenzweig, Amy Rosenzweig, C Rosfjord, Edward Rosinski, Jim Rosnack, Kenneth Rosner Ross, Alastair Ross, Alastair Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Euan Ross, Robert Ross, Robert Ross, Robert Rossell, David. Rossi, Gabriele Rossi, Mara Rossmassler, Karen Röst, Hannes Röst, Hannes Röst, Hannes Rosu, Frédéric Rosu, Frédéric	MP 657 ThP 699 ThP 369 ThP 370 MP 692 MP 742 MP 742 MP 183 MP 183 MP 170 MP 156 WP 200 WP 154 WP 156 WP 277 WP 285 WP 532 ThP 110 MP 183 ThP 196 WP 30 MP 184 MP 186 WP 532 ThP 197 MP 285 WP 532 ThP 197 MP 285 WP 532 ThP 197 MP 183 MP 187 MP 187 MP 187 MP 188 MP 187 MP 189 MP 189 WP 634 TOA am 09:10 TP 773 TP 606 ThP 519 ThOA am 08:30 TOA pm 02:30 WOH pm 02:30 WOH pm 02:30 WOH pm 02:30 MOF am 09:30 ThOB am 09:30 ThOB am 09:30 ThOB am 09:30 ThOB am 09:30

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Y)	No. of Street	
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Roth, MelissaWP 556
Date Deniel Ten 500
Röth, Daniel
Rothenberg, DanielTP 763 Rottmann, LotharThP 168
Rouse, Jason
Rouse, JasonTOG am 09:30
Rouse, JasonTOG am 09:50
Rouse, JasonTP 008
Roush, AddisonWP 137
Roush, JamesWP 156
Rousseau, KathleenWP 581
Roussi, FannyWP 421
Roussis, Stilianos GWP 635
Rousu , JuhoWP 408
Roux, Philippe PMP 029
Roux-Dalvai, FlorenceTP 647
Rovin , BradMP 762
Rowe, Christopher MOE am 10:10
Röwer, ClaudiaThP 620
Rowland, JenniferTP 651
Rowland, Steven MP 107
Rowland, StevenMP 108
Rowland, Steven MP 154
Rowland, StevenMP 528
Rowland, StevenThP 253
Rowland, StevenTOG pm 03:50
Rowles, TerriWP 563
Roy, HarrisonThOH pm 03:50
Roy, ReneMP 663
Roy, Sushmita MimiThP 704
Roy, SwapanWP 067
Roy-Lachapelle, AudreyTP 178
Rozenski, Jef WP 633 Rozsa, Jace MP 474
Rozsa, Jace TP 473
Ruan, Qian
Rubach, MatthewTOA pm 04:10
Rubakhin, StanislavMP 588
Rubakhin, StanislavMP 597
Rubakhin, StanislavTP 346
Rubakhin, StanislavTP 531
Ruben, AaronTP 452
Rubenstein, H MP 122
Rubio, VanessaThP 027
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Rubio, VanessaThP 494
Rubio, VanessaThP 504
Rubio , VanessaThP 504 Rubio , VanessaTP 558
Rubio, Vanessa
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Rubio, Vanessa. ThP 504 Rubio, Vanessa. TP 558 Rubio, Vanessa. WP 004 Rudan, John. ThP 007 Ruddy, Brian. ThP 507
Rubio, Vanessa
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Rubio, Vanessa. ThP 504 Rubio, Vanessa. TP 558 Rubio, Vanessa. WP 004 Rudan, John. ThP 007 Ruddy, Brian ThP 507 Rudewicz, Patrick ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367
Rubio, Vanessa
Rubio, Vanessa
Rubio, Vanessa
Rubio, Vanessa ThP 504 Rubio, Vanessa TP 558 Rubio, Vanessa WP 004 Rudan, John ThP 007 Ruddy, Brian ThP 507 Rudewicz, Patrick ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367 Rudney, Joel TP 435 Rudnick, Paul ThOA pm 03:50 Rudolph, Heather WP 597 Ruegsegger, Gregory MOF pm 02:50
Rubio, Vanessa
Rubio, Vanessa ThP 504 Rubio, Vanessa TP 558 Rubio, Vanessa WP 004 Rudan, John ThP 007 Ruddy, Brian ThP 507 Rudewicz, Patrick ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367 Rudney, Joel TP 435 Rudnick, Paul ThOA pm 03:50 Rudolph, Heather WP 597 Ruegsegger, Gregory MOF pm 02:50 Ruether, Patrick MOH pm 03:10 Ruether, Patrick TP 034
Rubio, Vanessa
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Rubio, Vanessa ThP 504 Rubio, Vanessa TP 558 Rubio, Vanessa WP 004 Rudan, John ThP 907 Ruddy, Brian ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367 Rudney, Joel TP 435 Rudnick, Paul ThOA pm 03:50 Rudolph, Heather WP 597 Ruegsegger, Gregory MOF pm 02:50 Ruether, Patrick TO 034 Ruether, Patrick TP 034 Ruether, Patrick WOC am 09:30 Rüger, Christopher ThP 287 Rüger, Christopher TOH pm 02:50 Rüger, Christopher TOH pm 03:10 Rüger, Christopher TOH pm 03:30 Rüger, Christopher TOH pm 03:30 Rüger, Christopher TOH pm 03:30 Rüger, Christopher WP 024 <th< td=""></th<>
Rubio, Vanessa ThP 504 Rubio, Vanessa TP 558 Rubio, Vanessa WP 004 Rudan, John ThP 907 Ruddy, Brian ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367 Rudney, Joel TP 435 Rudnick, Paul ThOA pm 03:50 Rudolph, Heather WP 597 Ruegsegger, Gregory MOF pm 02:50 Ruether, Patrick MOH pm 03:10 Ruether, Patrick WOC am 09:30 Rüger, Christopher ThO pm 02:50 Rüger, Christopher ThO pm 03:30 Rüger, Christopher TOH pm 03:30 Rüger, Christopher WP 024 Rüger, Christopher WP 024 <tr< td=""></tr<>
Rubio, Vanessa
Rubio, Vanessa ThP 504 Rubio, Vanessa TP 558 Rubio, Vanessa WP 004 Rudan, John ThP 907 Ruddy, Brian ThP 456 Rudewicz, Patrick TP 323 Rudewicz, Patrick TP 367 Rudney, Joel TP 435 Rudnick, Paul ThOA pm 03:50 Rudolph, Heather WP 597 Ruegsegger, Gregory MOF pm 02:50 Ruether, Patrick MOH pm 03:10 Ruether, Patrick WOC am 09:30 Rüger, Christopher ThO pm 02:50 Rüger, Christopher ThO pm 03:30 Rüger, Christopher TOH pm 03:30 Rüger, Christopher WP 024 Rüger, Christopher WP 024 <tr< td=""></tr<>

Puotolo Brandon		TD 728
Ruotolo, Brandon Ruotolo, Brandon	MOE	am 00:10
Ruotolo, Brandon	VVOI	M/D 404
Rupp, Bernhard		VVF 481
Rupp, GabrielleT	NOE	pm 03:50
Ruppert, Thomas		ThP 737
Ruprecht, Benjamin		WP 241
Ruscic, David		WP 571
Rusilowicz, Martin		MP 422
Russell, DavidT		
Russell, David		ThP 292
Russell, David		TP 517
Russell, David		WP 450
Russell, David H		
Russell, David H		
Russell, David H		ThP 645
Russell, David H		ThD 650
Russell, David H		
Russell, Jason		
Russell, Jason	NIOE	MD 000
Russell, Zachary		۷۷Р 622
Russo, Cristina		MP 703
Rüther, Patrick		IP 025
Rutter, Jared		
Rutter, Jared		TP 532
Ruzicka, Connie		ThP 294
Ruzicka, Connie\	NOH	am 08:30
Ruzicka, Connie		WP 692
Ryan, Daniel		MP 352
Ryan, Daniel		MP 353
Ryan, Daniel		
Ryan, Daniel		TP 653
Ryan Good, Charly		WP 708
Ryazanova, Lillia		TP 702
Rychnovsky, Scott		\\\D 1/8
Rydzak, Thomas		
Pudzak, Thomas		THE 447
Rydzak, Thomas		IIIF 408
Rydzak, Thomas Rydzak, Thomas		1 P 007
Rydzak, i nomas		VVP 091
Rye, Peter		
Rykaer, Martin	TOG	am 08:30
Rykl, Jana		MP 099
Rynearson, Leah		MP 208
Ryu, Han Suk		MP 007
Ryu, Han Suk		TP 057
Ryu, Han Suk		WP 726
Ryu , SoT	hOB	pm 02:30
Ryu, So		ThP 520
Ryumin, Pavel		MP 479
Ryumin, Pavel		
Ryumin, Pavel		
Ryumin, Pavel		WP 463
Ryzhov, Victor		
Ryzhov Victor		MP 280
		MP 280 MP 281
Puzhov Victor		MP 280 MP 281
Ryzhov, Victor		MP 281 MP 282
Ryzhov, Victor\	 VOG	MP 281 MP 282 am 09:10
Ryzhov, Victor\ Sa, Michael\	VOG	MP 281 MP 282 am 09:10 MP 511
Ryzhov, Victor\ Sa, Michael Sa'don, Nurul Atigah	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195
Ryzhov, Victor Sa, Michael Sa'don, Nurul Atiqah Saba, Julian	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517
Ryzhov, Victor	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 388
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388 ThP 707
Ryzhov, Victor	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388 ThP 707 ThP 707
Ryzhov, Victor	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388 ThP 707 ThP 707
Ryzhov, Victor	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388 ThP 707 ThP 707
Ryzhov, Victor	VOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 388 ThP 707 ThP 707
Ryzhov, Victor	WOG	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 WP 38 ThP 109 MP 065 MP 694 pm 02:50 pm 03:30
Ryzhov, Victor	ThOA	MP 281 MP 282 am 09:10 MP 511 ThP 195 WP 516 WP 517 ThP 714 ThP 112 ThP 112 WP 386 ThP 694 pm 02:50 pm 03:30 ThP 185
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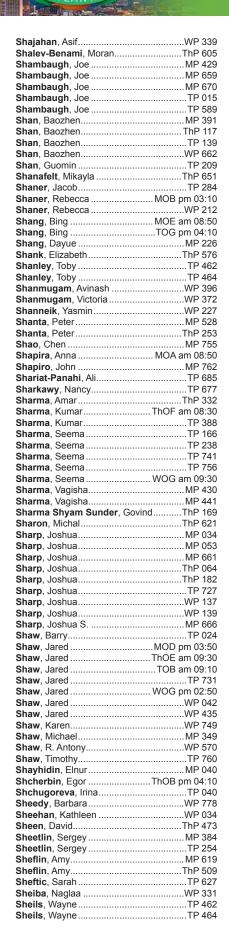
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Sesterhenn, Isabell Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric Sevy, Eric Seyfried, Nicholas Seymour, Craig Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabarh-Hill, Yair Shaffer, Scott Shaffer, Scott Shaffer, Scott Shaffer, Scott Shah, Asad Shah, Dimple Shah, Hardik	ThP 113 ThP 226 TP 355 WP 453 WP 453 WP 462 MP 012 MP 022 MP 760 Th 719 ThP 119 ThP 687 Th 736 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 532 TP 621 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 676 TP 778 TP 622 TP 661 ThOT pm 03:30 ThOH pm 02:30 TP 622 TP 661 ThOE pm 03:30 MOH am 09:10 ThP 108 TP 402 WP 781 MP 183
Sesterhenn, Isabell Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric Sevy, Eric Seyfried, Nicholas Seymour, Craig Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Sean Seymour, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shaffer, Scott Shaffer, Scott Shaffer, Scott Shah, Hardik Shah, Punit	ThP 113 ThP 126 ThP 255 WP 453 WP 453 WP 462 MP 012 MP 022 MP 761 ThP 119 ThP 687 ThP 736 TP 576 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 031 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 662 TP 620 TP 620 TP 402 WP 781 MP 108 ThP 108 ThP 108 TP 402 WP 781 MP 183
Sesterhenn, Isabell Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric Sevy, Eric Seyfried, Nicholas S	ThP 113 ThP 126 ThP 226 WP 453 WP 462 MP 012 MP 022 MP 750 MP 761 ThP 119 ThP 687 ThP 736 TP 576 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 021 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 622 TP 661 TP 622 TP 661 MP 708 ThOE pm 03:10 ThOH pm 02:30 TP 622 TP 661 MP 708 ThOE pm 03:40 ThOH pm 02:30 TP 622 TP 661 MP 708 ThOG pm 03:40 ThOH pm 02:30 TP 622 TP 661 MP 708
Sesterhenn, Isabell Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric Sevy, Eric Seyfried, Nicholas S	ThP 113 ThP 126 ThP 226 WP 453 WP 462 MP 012 MP 022 MP 750 MP 761 ThP 119 ThP 687 ThP 736 TP 576 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 021 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 622 TP 661 TP 622 TP 661 MP 708 ThOE pm 03:10 ThOH pm 02:30 TP 622 TP 661 MP 708 ThOE pm 03:40 ThOH pm 02:30 TP 622 TP 661 MP 708 ThOG pm 03:40 ThOH pm 02:30 TP 622 TP 661 MP 708
Sesterhenn, Isabell. Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric. Sevy, Eric. Seyfried, Nicholas. Seymour, Craig. Seymour, Sean. Seym	ThP 113 ThP 226 ThP 255 WP 453 WP 462 MP 012 MP 022 MP 761 ThP 119 ThP 687 ThP 736 TP 776 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 738 MP 538 TP 021 MP 768 THP 667 THOE pm 03:30 MOH am 09:10 ThP 108 THP 108 THP 108 THP 566 THP 778 MP 695 MP 640 MP 781
Sesterhenn, Isabell. Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric. Sevy, Eric. Seyfried, Nicholas. Seymour, Sean. Seymo	ThP 113 ThP 126 ThP 226 WP 453 WP 462 MP 012 MP 022 MP 761 ThP 119 ThP 687 ThP 736 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 738 MP 538 MP 538 MP 548 MP 548 MP 646 ThOE pm 03:00 MP 418 ThOE pm 03:00 MP 438 MP 548 MP 646 MP 695 MP 696 MP 696 MP 697 MP 697 MP 708 MP 698 MP 698 MP 698 MP 698 MP 698 MP 698
Sesterhenn, Isabell. Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric. Sevy, Eric. Seyfried, Nicholas. Seyfr	ThP 113 ThP 126 ThP 226 WP 453 WP 453 WP 462 MP 012 MP 702 MP 761 ThP 119 ThP 687 ThP 736 TF 776 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 022 TP 661 ThOE pm 03:30 MOH am 09:10 ThP 108 MP 483 MP 540 MP 640 MOF pm 03:50 WOD am 08:50 WOD am 08:50 WOD am 08:50 WP 781
Sesterhenn, Isabell. Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric Sevy, Eric Seyfried, Nicholas. Seymour, Craig. Seymour, Sean S	ThP 113 ThP 126 ThP 255 WP 453 WP 453 WP 462 MP 012 MP 022 MP 760 ThP 119 ThP 187 ThP 736 TP 576 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 021 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 661 ThOE pm 03:30 MOH am 09:10 ThP 108 ThP 108 ThP 402 WP 781 MP 788 MP 788 MP 788 MP 183 TP 540 MP 695 MP 640 MOF pm 03:50 WO am 08:50 WO am 08:50 WP 781 ThP 369
Sesterhenn, Isabell. Setou, Mitsutoshi Setou, Mitsutoshi Sevy, Eric. Sevy, Eric. Seyfried, Nicholas. Seyfr	ThP 113 ThP 126 ThP 255 WP 453 WP 453 WP 462 MP 012 MP 022 MP 760 ThP 119 ThP 187 ThP 736 TP 576 TP 778 WP 092 WP 646 WP 677 MOB pm 03:10 MP 438 MP 538 TP 021 MP 708 ThOG pm 03:10 ThOH pm 02:30 TP 661 ThOE pm 03:30 MOH am 09:10 ThP 108 ThP 108 ThP 402 WP 781 MP 788 MP 788 MP 788 MP 183 TP 540 MP 695 MP 640 MOF pm 03:50 WO am 08:50 WO am 08:50 WP 781 ThP 369



Shelar, Ashutosh	TP 595
Shelar, Ashutosh	TP 746
Sheldon, Jessica	
Shelley, Jacob	
Shelley, Jacob	ThP 033
Shellie, Robert	MP 101
Shellie, Robert	TP 189
Shen, Amy	VVP 041
Shen, Huali	WP 654
Shen, Jianqiao	IP 020
Shen, Jianwei	IhP 133
Shen, Jiechen	WP 191
Shen, Jiewen	IP 285
Shen, Jiewen	
Shen, Jinlin	WP 110
Shen, Junqing	WP 242
Shen, Lanlan	ThP 732
Shen, Rong-Fong	IP 655
Shen, Shichen	MP 699
Shen, Shichen	IhP /40
Shen, Shichen	IP /05
Shen, Susan	WP 477
Shen, Tang-Long	ThP 378
Shen, Tong	MP 527
Shen, Weiping	
Shen, Xiaojing	MP 587
Shen, Xiaojing	MP 769
Shen, Xiaojing	ThP 551
Shen, Xiaojing	WP 038
Shen, Xiaomeng	ThP 132
Shen, Xiaomeng	WOD pm 02:50
Shen, Xinggui	ThP 683
Shen, Yue	
Shen, Yufeng	
Sheng, Anran	ThP 074
Sheng, Ying	ThP 210
Shepherd, Adam	MP 403
Shepherd, Samantha	
Sheppard, Cody	. MOB pm 03:10
Sheppard, Cody	TP 106
Sheraz née Rabbani, Sadia	MP 469
Sheraz née Rabbani, Sadia Sherman, David	MP 469 ThP 109
Sheraz née Rabbani, Sadia Sherman, David Sherman, David	MP 469 ThP 109 ThP 293
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy	ThP 109 ThP 293 ThP 293
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy	
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy	MP 469 ThP 109 ThP 293 .MOE am 09:50 ThOA am 08:50 ThP 446
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok.	MP 469ThP 109ThP 293 .MOE am 09:50 ThOA am 08:50ThP 446
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetry, Ashok Shevchenko, Andrej	MP 469ThP 109ThP 293 .MOE am 09:50 ThOA am 08:50ThP 446ThP 124
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Andrej	MP 469MP 109ThP 293 .MOE am 09:50 ThOA am 08:50ThP 444MP 444
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok. Shevchenko, Andrej Shevchenko, Andrej Shevchenko, Andrej	MP 469 ThP 193 MOE am 09:50 ThOA am 08:50 ThOA am 18:50 ThP 124 MP 444 TP 632
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok. Shevchenko, Andrej Shevchenko, Andrej Shevchenko, Andrej Shevchenko, Andrej	MP 469
Sheraz née Rabbani, Sadia Sherman, David Shermod, David Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej	MP 469 ThP 109 ThP 293 MOE am 09:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok. Shevchenko, Andrej Shevchenko, Andrej Shevchenko, Andrej Shevchenko, Andrej	MP 469 ThP 109 ThP 293 MOE am 09:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchuk, Olga	MP 469ThP 109ThP 293 .MOE am 09:50 ThOA am 08:50ThP 446ThP 124MP 444TP 632TP 757WP 546WP 560ThP 707
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Andra Shevchuk, Olga Sheynkman, Gloria	MP 469ThP 109ThP 293 .MOE am 09:50 ThOA am 08:50ThP 446ThP 124MP 444TP 632TP 757WP 546WP 546ThP 707TP 758MP 412
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Sheynkman, Gloria Shi, Eric	MP 469 ThP 109 ThP 209 MOE am 09:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Sheynkman, Gloria Sheynkman, Gloria Shi, Fanq	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej	MP 469 ThP 109 ThP 239 MOE am 09:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 416 WP 288 WP 288
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shetrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchuk, Olga Sheynkman, Gloria Shi, Fic Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Jiangkin	MP 469 ThP 109 ThP 293 MOE am 09:50 ThOA am 08:50 ThP 446 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412 MP 412 MP 288 MP 116
Sheraz née Rabbani, Sadia	MP 469 ThP 109 ThP 293 MOE am 09:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 758 MP 412 ThP 146 WP 288 MP 116 MP 610 TP 578
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej	MP 469ThP 109ThP 209MOE am 09:50 ThOA am 08:50 ThDA am 08:50ThP 446ThP 124MP 446TP 632TP 757WP 546WP 560ThP 707TP 758MP 412ThP 146WP 288MP 116MP 610TP 578MP 300
Sheraz née Rabbani, Sadia	MP 469 ThP 109 ThP 209 MOE am 09:50 ThOA am 08:50 ThOA am 8:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412 ThP 146 WP 288 MP 116 MP 610 TP 578 MP 300 TP 578
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shetrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, And	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Shermod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, And	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchenko, Anna Shevchuk, Olga Shevchuk, Olga Shi, Fici Shi, Fang Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Liuqing Shi, Liuqing Shi, Liuqing Shi, Rachel Shi, Shundi Shi, Tujin	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, And	MP 469 ThP 109 ThP 209 MOE am 09:50 ThOA am 08:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412 ThP 146 WP 288 MP 116 MP 610 TP 578 MP 300 TP 578 MP 300 TP 612 ThP 131
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchuk, Olga Sheynkman, Gloria Shi, Fric Shi, Fang Shi, Jianghong Shi, Jianghong Shi, Liuqing Shi, Liuqing Shi, Liuqing Shi, Rachel Shi, Shundi Shi, Tujin	MP 469 ThP 109 ThP 209 MOE am 09:50 ThOA am 08:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412 ThP 146 MP 610 MP 610 MP 610 TP 570 MP 330 TP 662 ThP 1662 ThP 707
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchuk, Olga Sheynkman, Gloria Shi, Fric Shi, Fang Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Liuqing Shi, Liuqing Shi, Liuqing Shi, Rachel Shi, Shundi Shi, Tujin	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shetrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevch	MP 469
Sheraz née Rabbani, Sadia	MP 469 ThP 109 ThP 293 MOE am 09:50 ThOA am 08:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 705 TP 758 MP 412 ThP 146 WP 288 MP 116 MP 610 TP 578 MP 300 TP 341 MOD pm 03:30 TP 662 ThP 701 WOF am 10:10 WP 974 TP 037
Sheraz née Rabbani, Sadia	MP 469
Sheraz née Rabbani, Sadia	MP 469 ThP 109 ThP 209 MOE am 09:50 ThOA am 08:50 ThOA am 08:50 ThP 446 ThP 124 MP 444 TP 632 TP 757 WP 546 WP 560 ThP 707 TP 758 MP 412 ThP 146 WP 288 MP 116 MP 610 TP 578 MP 300 TP 578 MP 300 TP 610 TP 757 MP 301 TP 610 TP 701 WOF am 10:10 WP 097 ThP 474 TP 037 TP 052 TP 052
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Sherrod, Stacy Shetty, Ashok Shevchenko, Andrej Shevchenko, Anna Shevchenko, Anna Shevchenko, Anna Shevchenko, Anna Sheynkman, Gloria Shi, Fric Shi, Fang Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Jianghong Shi, Liuqing Shi, Liuqing Shi, Liuqing Shi, Rachel Shi, Rachel Shi, Tujin Shi, Tujin Shi, Tujin Shi, Tujin Shi, Xiaojian Shi, Xiaojian Shi, Xiaojian Shi, Xiaojian Shi, Xiaolei	MP 469
Sheraz née Rabbani, Sadia Sherman, David Sherman, David Sherrod, Stacy Sherrod, Stacy Shertod, Stacy Shetty, Ashok Shevchenko, Andrej	MP 469ThP 109ThP 109ThP 209ThP 460ThP 446ThP 446ThP 124MP 444TP 632TP 757WP 560ThP 707TP 758MP 412ThP 146MP 610TP 370TP 380TP 461MP 610TP 370TP 381MP 116MP 610TP 370TP 381TP 474TP 037TP 052TP 052TP 052TP 051
Sheraz née Rabbani, Sadia	MP 469
Sheraz née Rabbani, Sadia	MP 469
Sheraz née Rabbani, Sadia	MP 469
Sheraz née Rabbani, Sadia	MP 469

Shi, Yatao	TP 373
Shi, Yatao	WP 140
Shi, Yifan	TP 080
Shi, Yuqi	MP 297
Shichi, Hideharu	INP 409
Shichi, Hideharu	1P 448
Shiea, Jentaie	INP 035
Shiea, Jentaie	IP 345
Shiel, Jonelle	
Shields, Samuel	
Shields, Samuel Shih, Chia-Lung	
Shih, Chia-Lung	ThD 129
Shih, Hsi-Chang	
Shih, Mack	MD 250
Shih, Mack	MP 784
Shilatifard, Ali	TP 697
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Shima, Keisuke	ThP 513
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Shima, Mikie	MP 178
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Shimabukuro, Yuji	ThP 400
Shimada, Takashi	WP 043
Shimamura, Yoshinori	ThP 165
Shimelis, Olga	WP 522
Shimizu, Hiroshi	ThP 322
Shimizu, Koji	WP 030
Shimizu, Mie	ThP 727
Shimizu, Yoshihiro	MP 723
Shimizu, Yoshihiro	TOF pm 03:10
Shimizu, Yoshihiro	WP 244
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Shin, Dong Won	TP 258
Shin, Hee-sup	WP 196
Shin, Ho-Chul	IP 231
Shin, Ho-Chul	WP 293
Shin, Junghoon	MP 696
Shin, Miji Shin, Yongho	VP 003
Silin, rongno	IVIP ZUC
Shin Vonaho	MD 227
Shinde Amol	MP 227
Shinde, Amol	MP 227
Shinde, Amol Shinholt, Deven	MP 227 ThP 175 TP 461
Shinde, Amol Shinholt, Deven Shinholt, Deven	MP 227 ThP 175 TP 461 .WOH am 10:10
Shinde, Amol Shinholt, Deven Shinholt, Deven Shintani, Inori	
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru	MP 227 ThP 175 TP 46° WOH am 10:10 ThP 238
Shinde, Amol	
Shinde, Amol	
Shinde, Amol	MP 227 ThP 175 ThP 175 MOH am 10:10 ThP 238 WP 389 MP 677 TTOG am 09:30
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry.	MP 227 ThP 175 WOH am 10:10 ThP 236 WP 386 MP 672 ThP 676 TOG am 09:30 TP 506
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry.	
Shinde, Amol	
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry Shiota, Teruhisa Shiota, Teruhisa	
Shinde, Amol Shinholt, Deven Shinholt, Deven Shintani, Inori Shiohama, Toru Shion, Henry Shion, Henry Shion, Henry Shion, Henry Shion, Henry Shion, Henry Shiota, Teruhisa Shiota, Teruhisa Shioyama, Shohei	MP 227 ThP 175 ThP 175 WOH am 10:10 ThP 238 WP 386 MP 677 TOG am 09:30 TP 506 TP 600 ThP 010 ThP 010 ThP 038
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry. Shiota, Teruhisa. Shiota, Teruhisa. Shiotama, Shohei Shipkova, Petia.	MP 227 ThP 175 WOH am 10:10 ThP 238 WP 389 MP 677 ThP 676 TOG am 09:30 TP 506 TP 600 ThP 011 ThP 038 WP 632 ThP 045
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry. Shiota, Teruhisa. Shiota, Teruhisa. Shiota, Teruhisa. Shiota, Shohei Shipkova, Petia.	MP 227 ThP 175 WOH am 10:10 ThP 236 WP 389 MP 677 ThP 676 TOG am 09:30 TP 506 TP 600 ThP 011 ThP 012 ThP 036 WP 632 ThP 455
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shiota, Teruhisa. Shioyama, Shohei Shipkova, Petia Shipkova, Petia Shipkova, Petia	
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Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shintani, Inori. Shiohama, Toru. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shiota, Teruhisa. Shiota, Teruhisa. Shioyama, Shohei Shipkova, Petia. Shirai, Narumi.	MP 227 ThP 175 ThP 175 WOH am 10:10 ThP 238 WP 389 MP 677 TOG am 09:30 TP 506 TP 600 ThP 010 ThP 010 ThP 030 WP 632 ThP 457 TP 0710 WOD pm 03:10 WP 218
Shinde, Amol. Shinholt, Deven. Shinholt, Deven. Shinholt, Deven. Shintani, Inori Shiohama, Toru Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shion, Henry. Shiota, Teruhisa. Shipkova, Petia. Shipkova, Petia. Shipkova, Petia. Shirai, Narumi. Shiratake, Katsuhiro. Shirkhan, Hamid.	
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Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singh, Varoon Singhal, Kratika Singhal, Tatika Singhal, Kratika	DE am 09:30TP 122MP 185WP 578WP 578WP 578MP 455MP 455MP 455MP 745MP 746ThP 743MP 682ThP 442ThP 303MP 460TP 428WP 460TP 246TP 246TP 246TP 246TP 246
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singh, Varoon Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Sinha, Ankit Sinues, Pablo. Sipe, Sarah Sipe, Sarah Sipe, Sarah Sipe, Sarah Sige, Sarah Sigi, Liu Sisco, Edward	DE am 09:30TP 122MP 185WP 578 G am 09:30MP 455 DA pm 03:50 A pm 03:50MP 745MP 746ThP 743MP 682ThP 303 BB am 09:50WP 460TP 248 DB pm 02:30TP 246 G pm 03:50 G pm 03:50
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singh, Varoon Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Sinha, Ankit Sinues, Pablo. Sipe, Sarah Sipe, Sarah Sipe, Sarah Sipe, Sarah Sige, Sarah Sigi, Liu Sisco, Edward	DE am 09:30TP 122MP 185WP 578 G am 09:30MP 455 DA pm 03:50 A pm 03:50MP 745MP 746ThP 743MP 682ThP 303 BB am 09:50WP 460TP 248 DB pm 02:30TP 246 G pm 03:50 G pm 03:50
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singhal, Deepak Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Sinha, Ankit Sinues, Pablo Sipe, Sarah	DE am 09:30TP 122MP 185YP 161WP 578WP 578MP 455MP 455MP 746MP 746MP 748MP 682ThP 303MP 682ThP 303WP 460TP 428TP 248TP 248TP 248MP 682TP 248MP 682MP 682MP 682
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singhal, Deepak Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Sinha, Ankit Sinues, Pablo Sipe, Sarah	DE am 09:30TP 122MP 185YP 161WP 578WP 578MP 455MP 745MP 746MP 746MP 746ThP 303MP 682ThP 402ThP 303WP 460TP 428TP 428TP 428MP 756WP 291TP 544
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot. Singh, Taranjyot. Singh, Varoon Singh, Varoon Singhal, Deepak. Singhal, Kratika	DE am 09:30TP 122MP 185TP 161WP 578WP 578WP 455MP 455MP 746MP 746MP 682MP 682MP 682MP 442ThP 303MP 682MP 682MP 682MP 682MP 682MP 746MP 682MP 682MP 682MP 682MP 442MP 682MP 460MP 460MP 460MP 460MP 5448MP 7544MP 7544MP 291MP 544
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot. Singh, Taranjyot. Singh, Varoon Singh, Varoon Singhal, Kratika Singe, Sarah Sipe, Sarah Sipi, Liu Sisco, Edward Sisco, Edward Sisco, Edward Sisco, Edward Sistanggang, Poppy Sitasuwan, Pongkwan Sitinova, Gabriela TC	DE am 09:30
Singh, Ravinder Singh, Sunil. Singh, Sunil. Singh, Taranjyot Singh, Taranjyot Singh, Varoon Singh, Varoon Singhal, Deepak Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Singhal, Kratika Sinha, Ankit Sinues, Pablo Sipe, Sarah	DE am 09:30TP 122MP 185WP 578WP 578MP 455MP 455MP 455MP 745MP 745MP 746ThP 303MP 682ThP 303WP 460TP 248WP 460TP 248MP 768WP 460TP 248MP 768WP 460TP 448MP 768WP 460TP 448MP 768WP 291MP 768MP 768WP 291MP 242

Siuzdak, Gary Siuzdak, Gary		
Siuzdak Garv	. IVIOA	pm 02:50
	INOB	pm 03:30
Siuzdak, Gary		IP 567
Sivapatham, Renuka		.ThP 104
Sjögren, Jonathan		WP 334
Sjögren, Johnathan		TP 655
Skaar, Eric	MOF	am 09:30
Skaar, Eric		ThP 227
Skaar, Eric		TD 653
Olaran Fria		1
Skaar, Eric		VVP 3/6
Skaggs, Christine	ThOF	am 09:30
Skilton, St. John		MP 415
Skinner, Steve		.ThP 146
Skizim, Nicholas		WP 639
Skjærvø, Øystein		MP 465
Sklorz, Martin	MOG	nm 03·30
Skochko, Alexander	.iviOO	ThD 623
Olas as a service of the control of		. IIIF 023
Skoraczynski, Grzegorz		IVIP 378
Skoraczyński, Grzegorz	IOA	am 09:50
Skudas, Romas		TP 612
Skumatz, Christine		.ThP 106
Skylaris, Chris		MP 285
Slavov, Nikolai		.ThP 722
Sleczka, Bogdan		
Sleger, Taryn		WP non
Sleman, Ahmed A		NAD EZO
Sieman, Anmed A		IVIP 5/2
Sleno, Lekha		MP 090
Sleno, Lekha		MP 124
Sleno, Lekha		.ThP 669
Sleno, Lekha		TP 086
Sleno, Lekha		WP 619
Slick, Rebecca		TP 704
Slivacka, Marika		TD 33F
Smart, Lisa		TD 770
Smart, Lisa		17 //3
Smejkalova, Daniela		VVP 187
Smietanski, Miroslaw		.ThP 590
Smilowitz, Jennifer		WP 588
Smirnov, Aleksandr		WP 431
Smirnov, Igor P		.ThP 610
Smit, Nico		TP 660
Oid- Al		
		TP 262
Smith Alan		TP 262
Smith, Alan		TP 262
Smith, Alan Smith, Alastair		TP 262 TP 431 WP 487
Smith, Alan Smith, Alastair Smith, Anne Marie		TP 262 TP 431 WP 487 .ThP 348
Smith, Alan Smith, Alastair Smith, Anne Marie Smith, Barry		TP 262 TP 431 WP 487 .ThP 348 WP 026
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher		TP 262 TP 431 WP 487 .ThP 348 WP 026
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher		TP 262 TP 431 WP 487 .ThP 348 WP 026
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry. Smith, Christopher Smith, Clara		TP 262 TP 431 WP 487 .ThP 348 WP 026 MP 429 WP 511
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive.	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 MP 429 WP 511 pm 02:50
Smith, Alan Smith, Alastair Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 319
Smith, Alan Smith, Alastair Smith, Anne Marie Smith, Barry Smith, Clara Smith, Clive Smith, Daryl Smith, Daryl Smith, David	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348
Smith, Alan. Smith, Alastair. Smith, Anne Marie. Smith, Barry. Smith, Christopher. Smith, Clara. Smith, Clive. Smith, David. Smith, David. Smith, Donald.	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348
Smith, Alan. Smith, Alastair. Smith, Anne Marie. Smith, Barry. Smith, Christopher. Smith, Clara. Smith, Clive. Smith, Daryl. Smith, David. Smith, Donald. Smith, Donald.	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348 MP 154
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry. Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, David Smith, Donald Smith, Donald Smith, Donald	.MOG	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348 TP 348 MP 154 am 09:50
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald	TOE	TP 262 TP 431 WP 487 .ThP 348 WP 026 MP 425 WP 511 pm 02:50 WP 318 TP 348 MP 154 MP 344 am 09:50
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald	TOE	TP 262 TP 431 WP 487 .ThP 348 WP 026 MP 425 WP 511 pm 02:50 WP 318 TP 348 MP 154 MP 344 am 09:50
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive Smith, David Smith, David Smith, Donald	TOE	TP 262 TP 431 WP 487 WP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348 MP 154 MP 344 amp 09:50 pm 03:50 TP 148
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive Smith, David Smith, David Smith, Donald	TOE	TP 262 TP 431 WP 487 WP 348 WP 026 WP 511 pm 02:50 WP 319 TP 348 MP 154 MP 344 amp 09:50 pm 03:50 TP 148
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive Smith, David Smith, David Smith, Donald Smith, Emily Smith, Emily	TOE	TP 262 TP 433 WP 487 WP 026 WP 511 pm 02:50 WP 319 TP 348 MP 344 am 09:50 pm 03:50 pm 03:50 TP 143 MP 470
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive Smith, Daryl Smith, David Smith, Donald Smith, Enic Smith, Eric	TOE	TP 262 TP 431 WP 487 WP 348 WP 511 pm 02:55 WP 319 TP 348 MP 154 MP 344 MP 344 MP 344 MP 470 TP 143 TP 143
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, David Smith, Donald Smith, Eric Smith, Eric Smith, Graham.	TOE	TP 262TP 431WP 487WP 348WP 511 pm 02:55WP 319TP 348MP 134MP 344 am 09:50 pm 03:50TP 143MP 470TP 156MP 741
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Encily Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn	TOE	TP 262 TP 431 WP 487 .ThP 348 WP 026 WP 511 pm 02:50 WP 318 WP 318 MP 154 MP 344 am 09:50 pm 03:50 TP 143 MP 470 TP 743 TP 056 TP 056 MP 741 MP 741
Smith, Alan. Smith, Alan. Smith, Alastair Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clive Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey	TOE	TP 262TP 431WP 487WP 026WP 026WP 511 pm 02:50WP 315WP 314MP 344 am 09:50 pm 03:50TP 143MP 470MP 470MP 470TP 1956MP 741
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey	TOE	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 319TP 344 am 09:50 pm 03:50TP 143TP 145TP 056MP 477TP 056MP 741TP 008TP 008TP 39
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey	TOE	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 319TP 344 am 09:50 pm 03:50TP 143TP 145TP 056MP 477TP 056MP 741TP 008TP 008TP 39
Smith, Alan. Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, Clave Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Emily Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey Smith, Jeff	TOE TOG	TP 262TP 431WP 487WP 026WP 511 pm 02:56WP 319TP 348MP 344 am 09:50 pm 03:56 pm 03:56TP 143MP 470TP 056MP 398 pm 02:33TP 398 pm 02:33WP 528
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, Clive Smith, Daryl Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enic Smith, Eric Smith, Eric Smith, Eric Smith, Jeffrey Smith, Jeremy	TOE TOG	TP 262TP 431WP 487WP 026WP 511 pm 02:56WP 318TP 348MP 344 am 09:50 pm 03:56 pm 03:55TP 143MP 470TP 056MP 398 ppm 02:30WP 523WP 584
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry. Smith, Christopher Smith, Clara Smith, Clive. Smith, Daryl Smith, Daryl Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Joshua	TOETOG	TP 262TP 431WP 487WP 348WP 511 pm 02:55WP 319TP 348MP 344MP 344MP 345MP 350TP 143MP 470TP 7056MP 751TP 399 pm 02:30WP 522WP 528WP 784 am 09:50
Smith, Alan. Smith, Alanstair. Smith, Anne Marie. Smith, Barry Smith, Christopher. Smith, Clara Smith, Clara Smith, David. Smith, David. Smith, Donald. Smith, Eric. Smith, Eric. Smith, Eric. Smith, Graham. Smith, Jacquelynn Smith, Jeffrey. Smith, Jeffrey. Smith, Jeffrey. Smith, Jeffrey. Smith, Jeremy. Smith, Jeremy. Smith, Joshua. Smith, Joshua.	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 315WP 316WP 344 am 09:50 pm 03:50TP 144MP 470TP 1956MP 349 pm 02:30MP 529WP 329MP 529WP 529WP 529WP 784 am 09:50
Smith, Alan. Smith, Alanstair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Joshua Smith, Judith. Smith, Muldith.	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 315WP 315MP 344 am 09:50 pm 03:50TP 134TP 1056MP 347TP 1056MP 323MP 347TP 056MP 323MP 347TP 056MP 362MP 365MP 365MP 365MP 365MP 764TP 056TP 056TP 056
Smith, Alan. Smith, Alanstair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Joshua Smith, Judith Smith, Judith Smith, Judith Smith, Jementh	TOETOG	TP 262TP 431WP 487WP 026MP 429WP 511 pm 02:50WP 319TP 344 am 09:50 pm 03:50TP 143TP 056MP 474TP 008WP 529WP 529WP 784 am 09:50TP 056TP 056TP 056TP 668
Smith, Alan. Smith, Alanstair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Joshua Smith, Joshua Smith, Joshua Smith, Joshua Smith, Joshua Smith, Joshua Smith, Kenneth Smith, Kenneth	TOE TOG	TP 262TP 431WP 487WP 032WP 511 pm 02:50WP 319TP 348MP 454MP 344 am 09:50 pm 03:50TP 143TP 050MP 477TP 095MP 399 pm 02:33WP 529WP 784 am 09:50TP 1950TP 1950TP 1950TP 665TP 665TP 665TP 733WP 037
Smith, Alan. Smith, Alanstair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Joshua Smith, Judith Smith, Judith Smith, Judith Smith, Jementh	TOE TOG	TP 262TP 431WP 487WP 032WP 511 pm 02:50WP 319TP 348MP 454MP 344 am 09:50 pm 03:50TP 143TP 050MP 477TP 095MP 399 pm 02:33WP 529WP 784 am 09:50TP 1950TP 1950TP 1950TP 665TP 665TP 665TP 733WP 037
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, Clive Smith, Daryl Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enic Smith, Eric Smith, Eric Smith, Eric Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeshua Smith, Jeshua Smith, Jeshua Smith, Jeshua Smith, Jeshua Smith, Jeshua Smith, Kenneth Smith, Kenneth	TOE TOG	TP 262TP 433WP 487WP 026MP 429WP 511 pm 02:50WP 319TP 348MP 344MP 344MP 345MP 347TP 143MP 470TP 056MP 398 ppm 02:30WP 532WP 784 am 09:50TP 056TP 056TP 056TP 056TP 057TP 057TP 057TP 057TP 057TP 057TP 057TP 057TP 057TP 057
Smith, Alan. Smith, Alanstair. Smith, Anne Marie. Smith, Barry Smith, Christopher. Smith, Clara Smith, Clara Smith, David. Smith, David. Smith, Donald. Smith, Donald. Smith, Donald. Smith, Donald. Smith, Donald. Smith, Donald. Smith, Eric. Smith, Eric. Smith, Eric. Smith, Graham. Smith, Jacquelynn Smith, Jacquelynn Smith, Jeffrey. Smith, Jeffrey. Smith, Jeremy. Smith, Jeremy. Smith, Joshua. Smith, Judith. Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kerni	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 315WP 316WP 344MP 344MP 345MP 470TP 154MP 470TP 154MP 370TP 056MP 741TP 056MP 752WP 529WP 623WP 637WP 637WP 631WP 631
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Joshua Smith, Judith Smith, Kenneth Smith, Kevin.	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 319WP 319MP 344MP 344MP 345MP 470TP 136MP 470TP 105MP 741TP 056MP 784TP 056TP 665TP 665TP 665TP 635WP 613
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Bric Smith, Eric Smith, Eric Smith, Eric Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Judith Smith, Kenneth Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 348WP 511 pm 02:50WP 319TP 348MP 154MP 344 am 09:50 pm 03:50TP 363TP 363TP 363TP 363TP 365TP 365TP 373WP 525TP 373TP 373
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Judith Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kerri Smith, Kerri Smith, Kevin Smith, Lloyd Smith, Lloyd Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 348WP 511 pm 02:50WP 319TP 348MP 154MP 344 am 09:50 pm 03:50TP 143TP 056MP 771TP 008WP 529WP 529WP 784 am 09:50TP 398 pm 02:33WP 613TP 580TP 650TP 650TP 650TP 650TP 650TP 650TP 650TP 650TP 650TP 580TP 580TP 580MP 412MP 773
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey Smith, Jeremy Smith, Jerenth Smith, Kenneth Smith, Lloyd Smith, Lloyd Smith, Lloyd Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 032WP 511 pm 02:50WP 319TP 348MP 452MP 344 am 09:50 pm 03:50TP 143TP 050MP 477TP 050MP 395 pm 02:33WP 529WP 529TP 366TP 666TP 666TP 580TP 580TP 580MP 477TP 580MP 472MP 772MP 773MP 472MP 472TP 580MP 412MP 772MP 773MP 773MP 773MP 773
Smith, Alan. Smith, Alan. Smith, Alastair Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Eric Smith, Eric Smith, Eric Smith, Graham. Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeffrey Smith, Jefrey Smith, Jeremy. Smith, Jeremy. Smith, Joshua Smith, Judith Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kerri Smith, Kevin Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 311 pm 02:50WP 314MP 344 am 09:50 pm 03:50TP 143MP 470TP 78MP 784MP 398 pm 02:30WP 529WP 784 am 09:50TP 056TP 056TP 666TP 667TP 057MP 773WP 617WP 617TP 580MP 722MP 7218MP 7218MP 7218MP 731
Smith, Alan. Smith, Alanth, Alastair Smith, Alastair Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Barry Smith, Jacquelynn Smith, Jacquelynn Smith, Jacquelynn Smith, Jeffrey Smith, Jeffrey Smith, Jeremy Smith, Jeremy Smith, Jeremy Smith, Judith Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kenneth Smith, Kerni Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 315WP 316WP 316WP 316MP 344 am 09:50TP 146MP 470TP 156MP 470TP 056TP 056TP 056TP 056TP 057WP 529WP 529WP 529WP 613WP 037WP 037WP 613WP 613TP 586MP 772MP 772TP 586MP 412MP 772TP 586MP 215TP 186MP 215TP 186TP 738TP 186TP 738TP 186TP 738TP 186TP 738TP 187TP 187TP 188TP 718TP 718
Smith, Alan. Smith, Alastair. Smith, Anne Marie Smith, Barry Smith, Christopher Smith, Clara Smith, Clara Smith, David Smith, David Smith, Donald Smith, Donald Smith, Donald Smith, Donald Smith, Enily Smith, Eric Smith, Eric Smith, Graham. Smith, Jeffrey Smith, Jeremy Smith, Jerenth Smith, Kenneth Smith, Lloyd Smith, Lloyd Smith, Lloyd Smith, Lloyd	TOETOG	TP 262TP 431WP 487WP 026WP 511 pm 02:50WP 319TP 344 am 09:50 pm 03:50TP 146TP 056TP 056TP 056TP 342 am 09:50TP 056TP 366TP 366TP 665TP 733WP 613TP 665TP 735WP 617TP 186TP 735WP 617TP 580TP 7580TP 7580TP 580TP 580

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Smith, Montana	MP 467
Smith, Montana	WP 622
Smith, Natasha	
Smith, Natasha	
Smith, Peter Smith, Philip	
Smith, Rebecca	
Smith, Richard MOF	am 08:30
Smith, Richard	MP 423
Smith, Richard ThOG	
Smith, Richard	
Smith, Richard Smith, Richard	
Smith, Richard	ThP 206
Smith, Richard	ThP 701
Smith, Richard	
Smith, RichardWOF	am 10:10
Smith, Richard	
Smith, Richard	
Smith, Richard	WP 454
Smith, RobTOA	am 08:50
Smith, Robert	
Smith, Robert	MP 411
Smith, Robert	
Smith, Robert	WP 380
Smith, SaraMOF Smith, Sean	D 136
Smith, Suzanne	ThP 748
Smith, Suzanne	
Smith, Tom	TP 418
Smithgall, Thomas	TP 332
Smola, Abigail	
Smolinski, Sharon Smolka, Marcus	WP 152
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Smukowski, Samuel	TP 697
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Sn Jujimon	
Sn, Jujimon	
Sn, Jujimon	WP 649
Sn, Jujimon Snarrenberg, Shana	WP 649 WP 068
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise	WP 649 WP 068 ThP 228 MP 011
Sn, Jujimon	WP 649 WP 068 ThP 228 MP 011 TP 089
Sn, Jujimon	WP 649 WP 068 ThP 228 MP 011 TP 089 TP 671
Sn, Jujimon	WP 649 WP 068 ThP 228 MP 011 TP 089 TP 671 MP 024
Sn, Jujimon	WP 649 WP 068 ThP 228 MP 011 TP 089 TP 671 MP 024 ThP 769
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089MP 024ThP 769MP 601ThP 664ThP 059WP 516
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei Snovida, Sergei Snovida, Sergei Snovida, Sergei Snovida, Sergei Snovida, Sergei	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664ThP 659WP 516
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 517
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei	WP 649WP 068ThP 228MP 011TP 689ThP 769MP 601ThP 664TP 059WP 516WP 517WP 742
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei	WP 649WP 068ThP 228ThP 228TP 071MP 011TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 517WP 742WP 744
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 517WP 742WP 742WP 744TP 186TP 186MP 232
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 517WP 742WP 744TP 186MP 232MP 477
Sn, Jujimon Snarrenberg, Shana Snel, Marten Snider, Elise Snider, Elise Snider, Frances Sniderman, Allan Sniegowski, Tyler Snovida, Sergei	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 517WP 742WP 744TP 186MP 232MP 477MP 488TP 753
Sn, Jujimon. Snarrenberg, Shana. Snel, Marten	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601ThP 664TP 059WP 516WP 516WP 742WP 742WP 744TP 186MP 232MP 477MP 488TP 753
Sn, Jujimon. Snarrenberg, Shana. Snel, Marten	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 669MP 601TP 059WP 516WP 517WP 742TP 186WP 744TP 186MP 232MP 477MP 488TP 753MP 782
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769WP 516WP 517WP 517WP 742WP 744TP 186MP 232MP 477MP 488TP 753MP 782 pm 02:30ThP 103
Sn, Jujimon	WP 649WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769WP 516WP 517WP 517WP 742WP 744TP 186MP 232MP 477MP 488TP 753MP 782MP 782MP 783MP 186TP 186TP 186TP 186TP 186TP 186TP 186TP 186TP 187TP 188TP 189TP 189
Sn, Jujimon. Snarrenberg, Shana. Snel, Marten	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769WP 601TP 059WP 516WP 516WP 742WP 744TP 186WP 742MP 488TP 753MP 488TP 753MP 782MP 782MP 782MP 103TP 103ThP 103ThP 101TP 426
Sn, Jujimon. Snarrenberg, Shana. Snel, Marten	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 769MP 601TP 059WP 516WP 516WP 742TP 186WP 744TP 186MP 232MP 477MP 488TP 753MP 782MP 782MP 782TP 103ThP 103ThP 103ThP 111TP 426TP 439TP 546
Sn, Jujimon. Snarrenberg, Shana. Snel, Marten Snider, Elise. Snider, Elise. Snider, Frances. Sniderman, Allan Sniegowski, Tyler Snovida, Sergei. Snovida, Se	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 661MP 601WP 516WP 516WP 517WP 744WP 744TP 186WP 488TP 753MP 488TP 753MP 782MP 488TP 186TP 193TP 193TP 193TP 193TP 193TP 429TP 439TP 546WP 086
Sn, Jujimon	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 664ThP 664TP 659WP 516WP 516WP 742WP 744TP 186WP 744TP 186MP 232MP 477MP 488TP 753MP 477MP 488TP 753MP 477MP 488TP 753MP 103ThP 111TP 426TP 439TP 546WP 086WP 086
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Sn, Jujimon. Snarrenberg, Shana. Snel, Marten Snider, Elise. Snider, Elise. Snider, Frances. Sniderman, Allan Sniegowski, Tyler Snovida, Sergei. Snovida, Se	WP 649WP 068WP 068ThP 228MP 011TP 089TP 671MP 024ThP 664TP 659WP 516WP 516WP 517WP 742WP 744TP 186MP 232MP 477MP 488TP 753MP 782MP 103ThP 110TP 126TP 426TP 426TP 428TP 53TP 546WP 086WP 402WP 598WP 739TP 686WP 552
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Sparvero, L.j	
Sparvero, Louis	TOD am 09:30
Spear, Emily	
Specht, Harrison	INP /22
Specker, Jonathan	.MOD am 08:50
Spector, Arthur	MP 553
Speicher, David	
Speicher, David	MP 526
Speller, Camilla	.MOH pm 03:50
Spellman, Daniel	
	MP 648
Spellman Daniel	MP 648
Spellman, Daniel	WP 248
Spellman, Daniel	WP 248
Spellman, Daniel	WP 248
Spellman, Daniel Spellman, Daniel Spencer, Daniel	WP 248 WP 688 MP 246
Spellman, Daniel	WP 248 WP 688 MP 246 WP 118
Spellman, Daniel	WP 248WP 688MP 246WP 118TOA am 09:10
Spellman, Daniel	WP 248WP 688MP 246WP 118TOA am 09:10
Spellman, Daniel	WP 248 MP 688 WP 118 TOA am 09:10 ThP 239
Spellman, Daniel	WP 248WP 688WP 118TOA am 09:10ThP 239
Spellman, Daniel	WP 248WP 688WP 118
Spellman, Daniel	
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Spellman, Daniel	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 TTOD am 08:30 TOD am 09:50 MOG am 09:50
Spellman, Daniel	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485
Spellman, Daniel	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 ThP 279
Spellman, Daniel	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 ThP 279
Spellman, Daniel	
Spellman, Daniel	
Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic. Spicer, Vic.	
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Sperry, Justin Spicer, Vic. Spicer, Vic. Spicer, Vic.	WP 248 WP 688 MP 248 WP 118TOA am 09:10ThP 239ThP 240TOD am 08:30 MOG am 09:50 MP 485ThP 279ThP 629TOG am 09:50WP 515
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Sperry, Justin Spicer, Vic. Spicer, Vic. Spicer, Vic.	WP 248 WP 688 MP 248 WP 118TOA am 09:10ThP 239ThP 240TOD am 08:30 MOG am 09:50 MP 485ThP 279ThP 629TOG am 09:50WP 515
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengline, Roger Sperline, Roger Sperline, Roger Sperling, Michael Sperry, Justin Spicer, Vic. Spicer, Vic. Spicer, Vic. Spicer, Vic.	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 ThP 279 ThP 629 TOG am 09:50 MP 517 WP 515
Spellman, Daniel	
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Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic Spicer, Vic Spicer, Vic Spicer, Vic Spicer, Vic Spicer, Voyld Spiegel, Brennan Spiegel, Brennan	
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Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Sperry, Justin Spicer, Vic.	WP 248 WP 688 MP 268 WP 118TOA am 09:10ThP 239ThP 240TOD am 08:30 MOG am 09:50 MP 485ThP 279ThP 629TOG am 09:50WP 515WP 516WP 517 MOH am 08:50 ThOF am 10:10 WP 224TP 146
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperry, Justin Spicer, Vic	WP 248 WP 688 MP 248 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 485 MP 515 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 WP 246 TP 147
Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Sperry, Justin Spicer, Vic.	WP 248 WP 688 MP 248 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 485 MP 515 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 WP 246 TP 147
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperry, Justin Spicer, Vic	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 515 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 WP 246 TP 147
Spellman, Daniel	
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic	WP 248 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 ThP 629 TOG am 09:50 WP 515 WP 516 WP 516 WP 517 MOH am 08:50 TP 146 TP 147 TP 154 TP 157 TP 157
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Spicer, Vic Spice	WP 248 WP 688 MP 248 WP 188
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Spicer, Vic Spice	WP 248 WP 688 MP 248 WP 188
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengline, Roger Sperline, Roger Sperline, Michael Sperling, Michael Sperling, Michael Sperling, Vic. Spicer, V	WP 248 WP 688 MP 248 WP 688 MP 240 WP 118 TOA am 09:10
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperry, Justin Spicer, Vic Spicer,	WP 248 WP 688 MP 248 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 515 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 WP 224 TP 147 TP 154 TP 279 MP 353 MP 353 WP 126
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperly, Justin Spicer, Vic. Spicel, Brennan Spiegel, Brennan Spiegel, Brennan Spiegel, Michael Spieger, Thomas Spivey, Eric Spivey, Eric Spivey, Eric Spivia, Weston Spiltstone, Ryan	
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic Spicer, V	WP 248 WP 688 WP 688 WP 118 TOA am 09:10 ThP 239 ThP 249 TOB am 08:30 MOG am 09:50 MP 485 ThP 629 TOB am 08:50 MP 515 WP 516 WP 516 WP 517 MOH am 08:50 ThOE am 10:10 TOB am 1
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Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Spicer, Vic Spice	WP 248 WP 688 MP 246 WP 118 TOA am 09:10
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Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Spiecr, Vic Spicer, Vic Spicer, Vic Spicer, Vic Spicer, Vic Spicel, Brennan Spiegel, Brennan Spiegel, Michael Spieg	WP 248 WP 688 MP 248 WP 688 MP 248 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 515 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 TP 1279 TP 1246 TP 1246 TP 147 TP 154 TP 279 TP 073 MP 353 WP 126 WP 590 ThO 228 MP 590 ThO 238
Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic Sp	WP 248 WP 688 WP 688 MP 246 WP 118 TOA am 09:10 ThP 239 ThP 240 TOD am 08:30 MOG am 09:50 MP 485 MP 517 WP 515 WP 516 WP 517 MOH am 08:50 ThOF am 10:10 TP 147 TP 154 TP 279 TP 167 MP 353 MP 353 MP 353 MP 352 MOD am 10:10 MOE am 09:30
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Spellman, Daniel Spellman, Daniel Spellman, Daniel Spencer, Daniel Spencer, Sandi Spencer, Simon Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Spengler, Bernhard Sperline, Roger Sperline, Roger Sperling, Michael Sperling, Michael Sperry, Justin Spicer, Vic Sp	WP 248 WP 688 MP 246 WP 118 TOA am 09:10

Spraggins, Jeffrey	TD 391
opraggins, semey	11 301
Spraggins, Jeffrey	TP 408
Spraggins, Jeffrey	
Spraggins, Jeffrey	WP 376
Springer, Timothy	
Spruce, Lynn	MP 710
Committed Louise	MOD am 00:10
Spruill, Laura	.MOD am 09:10
Spruill, Laura	WP 377
Sprunck, Stefanie	ThOE pm 02:50
Sprung, Robert	TP 091
Sreenivasan, Uma	MP 019
Sridar, Janani	TD 763
Srikumar, Neha	.MOD pm 02:30
Srikumar, Neha	TD 585
Srikumar, Neha	WP 041
Sripad, K	TD 104
Srivastava, Kinshuk	ThP 109
Srivastava, Kinshuk	
Srivastava, Shiv	ThP 113
Srivastava, Shiv	
Srivastava, Sudhir	ThP 113
Srzentic, Kristina	
Srzentic, Kristina	TP 635
Srzentić, Kristina	
Srzentić, Kristina	TOC pm 03:10
Srzentić, Kristina	IP 018
Srzentić, Kristina	TD 624
St. John, Zachary	MP 477
Staats, Sau Lan	ThD 013
Staats, Sau Lan	
Staccini, Riccardo	ThP 704
Stacey, Gary	ThOE nm 02:10
Stacey, Gary	1110E piii 03.10
Stacey, Gary	WOG pm 02:50
Stadlmann, Johannes	ThD 720
Stadlmann, Johannes	TOG pm 03:10
Stadlmann, Johannes	
Stadlmeier, Michael	MP 042
Stafford, George	
Stagliano, Michael	TP 111
Stagliano, Michael	IF 10Z
Stähli. Alexandra	
Stähli, Alexandra	MP 687
Stahl-Zeng, Jianru	MP 687
Stahl-Zeng, Jianru	MP 687
Stahl-Zeng, JianruStahl-Zeng, Jianru	MP 687 MP 176 WP 255
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron	MP 687 MP 176 WP 255 WP 116
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron	MP 687 MP 176 WP 255 WP 116
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10
Stahl-Zeng, Jianru	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50
Stahl-Zeng, Jianru	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50
Stahl-Zeng, JianruStahl-Zeng, JianruStairs, AaronStaiport, FabienStamm, ChristianStandke, Shawna	MP 687WP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10 .MOG am 08:50 TP 495 MP 624
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10 .MOG am 08:50 TP 495 MP 624
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10 .MOG am 08:50 TP 495 MP 624
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10 .MOG am 08:50 TP 495 MP 624 TP 437 WP 622
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan	MP 687 MP 176 WP 255 WP 116 .MOG am 10:10 .MOG am 08:50 TP 495 MP 624 TP 437 WP 622
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495MP 622WP 622
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Syan Stanley, Scott.	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495MP 624WP 622
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Syan Stanley, Scott.	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495MP 624WP 622
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard	MP 687MP 176WP 255WP 116MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 622TP 090
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard Stapels, Martha	MP 687MP 176WP 255MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 629
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard Stapels, Martha	MP 687MP 176WP 255MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 629
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard Stapels, Martha Staples, Gregory	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 622TP 090WP 172TP 656MP 641WP 512
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott. Stanley, Scott. Stanley, Richard Stapels, Martha. Staples, Gregory Stapleton, Donald	MP 687 MP 176 MP 255 WP 255 WP 116 MOG am 10:10 MOG am 08:50 TP 495 MP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard Stapels, Martha Staples, Gregory	MP 687 MP 176 MP 255 WP 255 WP 116 MOG am 10:10 MOG am 08:50 TP 495 MP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Gregory Stapleton, Donald Stapleton, Heather	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50TP 495MP 622TP 090WP 172TP 656MP 641WP 512MOE pm 02:50MP 121
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Stapels, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50MP 624TP 497WP 622TP 090WP 172TP 656
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Gregory Stapleton, Donald Stapleton, Heather	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50MP 624TP 497WP 622TP 090WP 172TP 656
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Staples, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50MP 624
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanton, Richard Staples, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian Stappert, Florian	MP 687MP 176WP 255MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 622TP 090WP 172TP 656MP 641WP 512 .MOE pm 02:50MP 121ThP 297ThP 299TP 293
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanton, Richard Stapels, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian Stappert, Florian	MP 687MP 176WP 255MOG am 10:10 .MOG am 08:50TP 495MP 624TP 437WP 622TP 090WP 172TP 656MP 641WP 512 .MOE pm 02:50MP 121ThP 297ThP 299TP 293
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanton, Richard Staples, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian	MP 687 MP 176 MP 255 WP 255 WP 116 MOG am 10:10 MOG am 08:50 TP 495 MP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50 MP 121 ThP 297 TP 299 TP 293 TP 293
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Staples, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian	MP 687 MP 176 MP 275 MP 176 MOG am 10:10 MOG am 08:50 TP 495 MP 624 TP 437 WP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50 MP 121 ThP 297 TP 293 TP 293 TP 293 TP 521 MP 107
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Staples, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian	MP 687 MP 176 MP 275 MP 176 MOG am 10:10 MOG am 08:50 TP 495 MP 624 TP 437 WP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50 MP 121 ThP 297 TP 293 TP 293 TP 293 TP 521 MP 107
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Scott. Stanley, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Starace, Anne Stark, Benjamin	MP 687 MP 176 MP 255 WP 116 MOG am 10:10 MOG am 08:50 MP 624 TP 437 WP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50 MP 121 ThP 297 ThP 299 TP 293 TP 293 MP 107 MP 411
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Stapels, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Starke, Benjamin Stark, Ken	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50MP 624TP 437WP 622TP 090WP 172TP 656MP 172MOE pm 02:50MP 121
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Stapels, Martha Staples, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Starke, Benjamin Stark, Ken	MP 687MP 176WP 255WP 116 .MOG am 10:10 .MOG am 08:50MP 624TP 437WP 622TP 090WP 172TP 656MP 172MOE pm 02:50MP 121
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian Starace, Anne Stark, Benjamin Stark, Ken	MP 687MP 176WP 255WP 116MOG am 10:10MOG am 08:50MP 624TP 495
Stahl-Zeng, Jianru Stahl-Zeng, Jianru Stairs, Aaron Stalport, Fabien Stamm, Christian Standke, Shawna Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanfill, Bryan Stanley, Scott Stanley, Scott Stanley, Scott Stanley, Gregory Stapleton, Donald Stapleton, Donald Stapleton, Heather Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian Stappert, Florian Stark, Benjamin Stark, Ken Stark, Ken	MP 687 MP 176 MP 255 WP 255 WP 116 MOG am 10:10 MOG am 08:50 TP 495 MP 622 TP 090 WP 172 TP 656 MP 641 WP 512 MOE pm 02:50 MP 121 ThP 297 TP 293 TP 293 TP 293 TP 293 MP 107 MP 411 MP 495 MP 541 MP 495 MP 541 ThP 394
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Steimling, Justin		TP 082
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Stein, Stephen		WP 424
Steinberg, Lindsey		
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Steiner, Frank		ThP 136
Steinhorst, Klaus		TP 409
Steinike, Sue		
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Stellick, Claire		WP 272
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Stemmer, PaulStemmer, PaulStemmer, PaulStenerson, Katherine		ThP 179 WP 736 WP 522
Stemmer, PaulStemmer, PaulStemmer, PaulStenerson, KatherineStengel, FlorianStengel, Florian		ThP 179 WP 736 WP 522 MP 165
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Stemmer, Paul Stemmer, Paul Stenmer, Paul Stengel, Florian Stengel, Florian Stenzler, Jan Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617MP 747TP 266
Stemmer, Paul Stemmer, Paul Stenmer, Paul Stengel, Florian Stengel, Florian Stenzler, Jan Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617MP 747TP 266TP 772
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Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian Stengel, Florian Stengel, Florian Steplanova, Anna Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn Stern, Gary Stern, Lawrence Stern, Lawrence Stevanović, Stefan	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617MP 747TP 266TP 772WP 487TP 483MP 694
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian. Stengel, Florian. Stenzler, Jan. Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn. Stern, Gary. Stern, Lawrence Stevanović, Stefan Stevanović, Stefan	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617TP 266TP 266TP 483MP 698ThP 108ThP 108MP 698
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Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian. Stengel, Florian. Stengel, Florian. Stepler, Jan Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn. Stern, Gary. Stern, Jamifer Stern, Lawrence. Stern, Lawrence. Stevanović, Stefan Stevanović, Stefan Stevanović, Stefan Steven, Rory Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan	ThOE	ThP 179WP 736WP 752WP 652 am 10:10TP 221MP 617TP 266TP 772WP 487TP 483MP 698MP 698MP 336MP 336MP 349 pm 03:50MP 142TP 170TP 170TP 170TP 571TP 574
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian. Stengel, Florian. Stengel, Florian. Stepler, Jan. Stephan, Alicia Stephenson, Jamira Stepher, Kaitlyn. Stern, Gary. Stern, Lawrence. Stern, Lawrence. Stevanović, Stefan Stevanović, Stefan Steven, Rory. Steven, Rory. Steven, Rory. Steven, Rory. Stevens, Doug. Stevens, Jan. Stevens, Rop. Stevens, Jan. Stevens, Jan. Stevens, Jan. Stevens, Jan. Stevens, Jan. Stevens, Rebecca.	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617TP 261TP 483MP 698TP 108MP 336MP 336MP 349 pm 03:50MP 342TP 170TP 174TP 174TP 175TP 175TP 174TP 175TP 175TP 175TP 175TP 176TP 1
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian. Stengel, Florian. Stengel, Florian. Stepler, Jan. Stephan, Alicia Stephan, Alicia Stephenson, Jamira Stepher, Kaitlyn. Stern, Gary. Stern, Jennifer. Stern, Lawrence Stern, Lawrence Stevanović, Stefan Stevanović, Stefan Steven, Rory Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Rebecca. Stevens, Rebecca. Stevens, Reisian.	ThOE	ThP 179WP 736WP 752WP 165 am 10:10TP 221MP 617TP 266TP 726TP 726TP 483MP 698ThP 108MP 694WP 731MP 336MP 349 pm 03:50MP 142TP 172TP 7534TP 534WP 594WP 596WP 194
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian Stengel, Florian Stengel, Florian Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepher, Kaitlyn Stern, Gary Stern, Lawrence Stern, Lawrence Stevanović, Stefan Stevanović, Stefan Steven, Rory Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Rebecca Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617TP 266TP 726TP 483MP 698TP 108MP 336MP 336MP 339 pm 03:50MP 142TP 172TP 534WP 591WP 594WP 596WP 170
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian Stengel, Florian Stengel, Florian Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepher, Kaitlyn Stern, Gary Stern, Jennifer Stern, Lawrence Stevanović, Stefan Stevanović, Stefan Stevan, Rory Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Doug Stevens, Jan	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617TP 266TP 726TP 483MP 698TP 108MP 336MP 336MP 339 pm 03:50MP 142TP 172TP 534WP 591WP 594WP 596WP 170
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stenerson, Katherine Stengel, Florian Stengel, Florian Stengel, Florian Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepler, Kaitlyn Stern, Gary Stern, Jennifer Stern, Lawrence Stern, Lawrence Stevanović, Stefan Stevanović, Stefan Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Rebecca Stevenson, Brian Stevenson, Tanner Stevenson, Tesia	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617MP 647TP 726TP 722WP 487TP 483MP 698MP 698MP 336MP 336MP 349 pm 03:50MP 142TP 770TP 7534WP 594WP 594WP 594WP 156MP 596MP 167MP 170 am 08:30
Stemmer, Paul Stemmer, Paul Stemmer, Paul Stengel, Florian Stengel, Florian Stengel, Florian Stepanova, Anna Stephan, Alicia Stephenson, Jamira Stepher, Kaitlyn Stern, Gary Stern, Lawrence Stern, Lawrence Stevanović, Stefan Stevanović, Stefan Steven, Rory Steven, Rory Steven, Rory Steven, Rory Stevens, Doug Stevens, Doug Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Jan Stevens, Rebecca Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian Stevenson, Brian	ThOE	ThP 179WP 736WP 522MP 165 am 10:10TP 221MP 617MP 647TP 266TP 772WP 487TP 483MP 698MP 108MP 349 pm 03:50MP 142TP 170TP 534WP 594WP 594WP 156MP 596MP 596MP 596MP 180MP 596MP 170 am 08:30 pm 04:10

Stickney, Morgan		
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Stidsen, Gary		
Stiles, Ashlee		
Stilley, Becky		
Stintzi, Alain		ThP 524
Stiving, Alyssa		MP 250
Stiving, Alyssa	TOB	am 09:30
Stocks, Bradley		ThP 652
Stockwell, Brent		
Stockwell, Brent		
Stockwell, Sally		
Stoehr, Gabrielle		WP 730
Stoeppler, Jochen		
Stokes, Matthew		ThP 372
Stokes, Matthew		TP 630
Stokes, Matthew		
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Stokes, Yvonne		
Stolpman, Drew		IP 15 <i>1</i>
Stoltzfus, Anna		
Stonehouse, Rob		TP 522
Stoner, Brian		MP 485
Stopfer, Lauren		TP 579
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Storck, Veronika		ThP 105
Storey, Aaron		ThP 741
Stornetta, Alessia		WP 630
Storozhilova, Veronika		MP 523
Stow, Sarah		
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Stowell, Michael		
Stoyanova, Tanya		
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Stratton, Kelly		MP 077
Stratton, Kelly		ThP 247
Stratton, Kelly		TP 437
Stratton, Kelly		TP 437
Stratton, Kelly Stratton, Kelly		TP 437 WP 407
Stratton, Kelly Stratton, Kelly Stratton, Tim		TP 437 WP 407 MP 433
Stratton, KellyStratton, KellyStratton, KellyStratton, TimStratton, TimStratton, TimStratton, TimStratton, TimStratton		TP 437 WP 407 MP 433 MP 567
Stratton, KellyStratton, KellyStratton, TimStratton, TimStratton, TimStratton, TimStratton, Tim		TP 437 WP 407 MP 433 MP 567 MP 625
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz		TP 437 WP 407 MP 433 MP 567 MP 625 MP 687
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Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol.	.MOG	TP 437WP 407MP 433MP 567MP 625MP 687 am 08:50MP 691TP 334WP 660
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol.	.MOG	TP 437WP 407MP 433MP 567MP 625MP 687 am 08:50MP 691TP 334WP 660
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strohmidel, Philipp	.MOG	TP 437WP 407MP 433MP 567MP 687 am 08:50MP 691TP 334WP 660WP 588ThP 279
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strobnidel, Philipp Strop, Pavel	.MOG	TP 437WP 407MP 433MP 567MP 625MP 687 am 08:50MP 691TP 334WP 660WP 588ThP 279
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Stratus, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strohmidel, Philipp Strop, Pavel	.MOG	TP 437WP 407MP 433MP 625MP 687 am 08:50MP 691TP 334WP 660WP 588ThP 279WP 064WP 064
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strobnidel, Philipp Stroustrup, Annemarie Struk, Daniel	.MOG	TP 437WP 407MP 433MP 625MP 625MP 681TP 334WP 660WP 688TP 279WP 064WP 188
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strohmidel, Philipp Strop, Pavel Stroustrup, Annemarie Struk, Daniel Strupat, Kerstin	.MOG	TP 437WP 407MP 407MP 647MP 667MP 687 am 08:50MP 691TP 334WP 680WP 588ThP 279WP 064MP 120TP 446 pm 04:10
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Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol Strohmidel, Philipp Strop, Pavel Stroustrup, Annemarie Strupat, Kerstin	.MOG	TP 437WP 407MP 433MP 667MP 687 am 08:50MP 660WP 660WP 660WP 064MP 120WP 064MP 120WP 334MP 348MP 348MP 348MP 348MP 348
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strobhmidel, Philipp Stron, Pavel Stroustrup, Annemarie Struk, Daniel Struk, Kerstin Strupat, Kerstin Strupat, Kerstin Strutzenberg, Tim Strynar, Mark	TOE	TP 437WP 407MP 407MP 645MP 667MP 687 am 08:50MP 660WP 680WP 588TP 239WP 660WP 436WP 436WP 438WP 438TP 331 am 09:331
Stratton, Kelly Stratton, Kelly Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol. Strobhmidel, Philipp Stron, Pavel Stroustrup, Annemarie Struk, Daniel Struk, Kerstin Strupat, Kerstin Strupat, Kerstin Strutzenberg, Tim Strynar, Mark	TOE	TP 437WP 407MP 407MP 645MP 667MP 687 am 08:50MP 660WP 680WP 588TP 239WP 660WP 436WP 436WP 438WP 438TP 331 am 09:331
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Stratton, Kelly Stratton, Kelly Stratton, Kelly Stratton, Tim Strauss, Franz Stravs, Michael Strefford, Jonathan Streit, Bennett Stripp, Alexandra Stroble, Carol Stroble, Carol Stroble, Carol Stroble, Carol Strowstrup, Annemarie Struk, Daniel Strupat, Kerstin Strutzenberg, Tim Stutten, Jahn Stutzer, Alexandra Stutzer, Alexandra Stutzman, John Stutzman, John Styczynski, Mark	TOE	TP 437WP 407MP 407MP 687MP 687MP 687MP 688MP 686MP 588TP 279WP 064MP 120TP 334TP 331MP 436MP 436MP 436TP 331MP 436MP 438TP 331MP 590MP 186MP 186MP 188TP 279TP 406MP 186TP 394 pm 02:50MP 633TP 394 pm 02:50MP 633TP 279TP 406
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Stauffer, Angela.....TP 083

Su, Benzhe	
	ThP 460
Su, Chiu-Hun	
Su, Da-Shung	ThP 304
Su, Huaqi (Kate)MC)E am 08:30
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Su, Mingming	IP 419
Su , Pei	MP 489
Su, Pei	
Su , Pin-Rui	ThP 522
Su, Wei Lun	
Su, Wei Lun	TP 222
Su, Wei-Lun	TP 075
Su, Wei-Lun	
Su, Xiaoyang	ThP 329
Su , Yan Ru	IVIP 749
Su , YangTC	OF am 08:50
Su, Yuangiang	
Suarez, Catalina	WP 253
Suarez, Cynthia	TD 3/10
Suarez, Cyriuna	11 540
Subramaniam, Shankar	TP 567
Subramaniyan, Indhumathy	ThP 243
Suchindran, SunilTO	04.40
Suchy, James	ThP 137
Suckau, Detlev	
Suckau, Detlev	ThP 601
Suckau, DetlevTO	
Suckau, Detlev	TP 337
Suckau, Detlev	WP 338
Suckau, Detlev	WP 492
Suckau, Detlev	WP 683
Suddhapas, Kantaphon	
Suessmair, Martina	ThP 360
Suetering, Juergen	MD 348
Suetering, Juergen	IP 375
Suetering, Juergen	TP 392
Sugahara, Otoe	ThP 130
Suganya, Arunan	MP 626
Sugg, Sonia	
Sugimoto, Hiroshi	WP 061
Sugiura, Yuki	
Sugiula, Tuki	
Sugiyama, Masuyuki	MP 473
Sugiyama, Naoyuki	MP 408
Sugiyama, NaoyukiSugiyama, Naoyuki	MP 408 ThP 713
Sugiyama, NaoyukiSugiyama, Naoyuki	MP 408 ThP 713
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Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona	ThP 09 ² WP 159 WP 528 WP 787 ThP 198
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh	ThP 09'WP 159WP 528ThP 199ThP 562
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh	ThP 09'WP 158WP 528WP 787ThP 198ThP 188
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel	ThP 09'WP 158WP 528ThP 198ThP 562ThP 188WP 633
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel	ThP 09'WP 158WP 528ThP 198ThP 562ThP 188WP 633
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel. Teixeira, Filipa	ThP 09'WP 15!WP 52!ThP 19!ThP 56:TP 18!WP 63:WP 71'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Telijeiro, Raquel Teixeira, Filipa Telling, Neil	ThP 09'
Teehan, Katie-Jo	ThP 09' WP 156 WP 526 WP 78' ThP 199 ThP 566 TP 188 WP 633 WP 71' TOC am 09:10
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo	ThP 09'WP 155WP 526ThP 196ThP 566WP 633WP 71'TOC am 09:13WP 566WP 566WP 350WP 350WP 350WP 350WP 350WP 350
Teehan, Katie-Jo	ThP 09'WP 158WP 528WP 78'ThP 198TP 188WP 633WP 71'WP 568
Teehan, Katie-Jo	ThP 09'WP 158WP 528WP 78'ThP 198TP 188WP 633WP 71'WP 568WP 568WP 358WP 358
Teehan, Katie-Jo	ThP 09' WP 156 WP 526 WP 78' ThP 199 ThP 560 TP 188 WP 633 WP 71' TOC am 09:10 WP 566 WOA am 09:30 WOA pm 03:50 WOE pm 02:50 ThP 416
Teehan, Katie-Jo	ThP 09' WP 156 WP 526 WP 78' ThP 199 ThP 560 TP 188 WP 633 WP 71' TOC am 09:10 WP 566 WOA am 09:30 WOA pm 03:50 WOE pm 02:50 ThP 416
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo	ThP 09'WP 152'WP 52'
Teehan, Katie-Jo	ThP 09' WP 156 WP 526 WP 78' ThP 196 ThP 566 WP 633 WP 71' TOC am 09:13 WOA pm 03:56 WOA pm 02:56 WOA pm 02:56 ThP 416 WP 014 WP 014 ThP 506 ThP 506
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Tenforo, Jorge	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Tenforo, Jorge	ThP 09'
Teehan, Katie-Jo	ThP 09' WP 158' WP 78' ThP 199' WP 78' ThP 562' WP 71' TOC am 09:1(WP 566' WOA am 09:36' WOA pm 03:5(WOE pm 02:5(WP 600' ThP 416' WP 014' WP 014' WP 016' ThP 506' TP 11' TP 68' TP 67'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel. Teixeira, Filipa. Telling, Neil. Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna. Tema, Jennyfer. Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenore, Stefan. Tenzer, Stefan.	ThP 09'
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo Ci	ThP 09' WP 158' WP 78' WP 78' ThP 199' ThP 562' WP 78' WP 633' WP 71' TOC am 09:11' WP 566' WOA am 09:35' WOA pm 03:50' WOE pm 02:50' ThP 410' WP 080' ThP 11' TP 68' TP 67' MP 37' MP 420' MP 400' MP 400' MP 400'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel. Teixeira, Filipa. Telling, Neil Tello, Nathalia Telu, Kelly. Telu, Kelly. Temelkuran, Burak Temenoff, Johnna. Temenoff, Johnna. Tena, Jennyfer. Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo Ci Teo, Guo-Ci	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel. Teixeira, Filipa. Telling, Neil. Tello, Nathalia Telu, Kelly. Telu, Kelly. Temelkuran, Burak Temenoff, Johnna. Tena, Jennyfer. Teng, Qunicy. Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan. Tenzer, Stefan. Tenzer, Stefan. Teo, Guo Ci Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel. Teixeira, Filipa. Telling, Neil. Tello, Nathalia Telu, Kelly. Telu, Kelly. Temelkuran, Burak Temenoff, Johnna. Tena, Jennyfer. Teng, Qunicy. Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan. Tenzer, Stefan. Tenzer, Stefan. Teo, Guo Ci Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Guo-Ci	ThP 09'
Teehan, Katie-Jo	ThP 09 WP 158 WP 78 ThP 199 ThP 569 WP 633 WP 631 WP 566 WOA am 09:30 WOA pm 03:50 WOA pm 03:50 WP 566 ThP 416 WP 014 WP 014 WP 08 ThP 508 TP 117 TP 68' MP 406 MP 406 MP 406 MP 406 MP 406 MP 406 MP 416 MP 706
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Guo Ci Teo, Guo Ci Teo, Guo-Ci Teo, Katy Terada, Hidetoshi Terada, Megumi	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temanoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Katy Terada, Hidetoshi Terada, Megumi Terary, Milan	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Teineiroka, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Katy Terada, Hidetoshi Terada, Megumi Terainyon	ThP 09'
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Temelkuran, Burak Temenoff, Johnna Temenoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Guo Ci Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Katy Terada, Hidetoshi Terada, Megumi Teramoto, Kanae Termopoli, Veronica Terrell, Evan	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Telu, Kelly Temenoff, Johnna Temenoff, Johnna Temanoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo-Ci Teo, Katy Terada, Megumi Teraiya, Milan Teramoto, Kanae Termopoli, Veronica Terrell, Evan Terry, Richard	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Telizeiro, Raquel. Teixeira, Filipa. Telling, Neil Tello, Nathalia Telu, Kelly. Telu, Kelly. Telu, Kelly. Temenoff, Johnna. Temenoff, Johnna. Temenoff, Johnna. Tena, Jennyfer. Teng, Qunicy. Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan. Tenzer, Stefan. Tenzer, Stefan. Tenzer, Stefan. Tenzer, Guo Ci Teo, Guo Ci Teo, Guo-Ci Teo, Guo-Ci Teo, Katy. Terada, Hidetoshi Terada, Megumi Teraiya, Milan. Teramopoli, Veronica Terrell, Evan. Terry, Richard Teshima, Hiro	ThP 09'
Teehan, Katie-Jo Teehan, Katie-Jo Teehan, Katie-Jo Tehan, Katie-Jo Teh Hui Boon, Fiona Tehranirokh, Masoomeh Tehranirokh, Masoomeh Teijeiro, Raquel Teixeira, Filipa Telling, Neil Tello, Nathalia Telu, Kelly Telu, Kelly Telu, Kelly Temenoff, Johnna Temenoff, Johnna Temanoff, Johnna Tena, Jennyfer Teng, Qunicy Teng, Xiaodong Teng, Xiaodong Teng, Xiaodong Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Tenzer, Stefan Teo, Guo Ci Teo, Guo-Ci Teo, Katy Terada, Megumi Teraiya, Milan Teramoto, Kanae Termopoli, Veronica Terrell, Evan Terry, Richard	ThP 09'

Tearter Mott	
Texter, Matt	ThP 430
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Tfaily, Malak	MP 467
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Thakkar, Santosh	MP 647
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Thakur, Satyendra	
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Thambisetty, Madhav	IVIF 049
Therewill Detro	1P //0
Thangudu, RatnaThOA	V DIII 03.50
Thapa, Surakshya	
Thastrup, MariaTOD	pm 03:10
Thatipamula, Rajendra Prasad	INP 142
Thaxton, Colby	MP 024
Thayer, MaiTOH	l am 08:50
The, Matthew	MP 363
Theisen, AlinaThOH	
Theisen, Alina	
Theodoridis, Georgios	
Theret, Louis	MP 029
Thevis, Mario WOC	pm 04:10
Thibault, François	MP 018
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Thibeau, Max	
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Thinius, Marco	
Thirkell, Laurent	
Thirukumaran, Milaan	MP 455
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Thomas, Andrew	TP 553
Thomas, Ankur	TP 553 WP 077
Thomas, Ankur Thomas, Brian	TP 553 WP 077 TP 024
Thomas, Ankur Thomas, Brian Thomas, Diane	TP 553 WP 077 TP 024 ThP 452
Thomas, Ankur Thomas, Brian	TP 553 WP 077 TP 024 ThP 452
Thomas, Ankur Thomas, Brian Thomas, Diane Thomas, George	TP 553 WP 077 TP 024 ThP 452 ThP 716
Thomas, Ankur Thomas, Brian Thomas, Diane	TP 553 WP 077 TP 024 ThP 452 ThP 716 ThP 707
Thomas, Ankur Thomas, Brian Thomas, Diane Thomas, George Thomas, Henrik	TP 553 WP 077 TP 024 ThP 452 ThP 716 ThP 707
Thomas, Ankur	TP 553 WP 077 TP 024 ThP 452 ThP 716 ThP 707 TP 200 ThP 528
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200TP 528ThP 538
Thomas, Ankur Thomas, Brian Thomas, Diane Thomas, George Thomas, Henrik Thomas, James Thomas, Julie Thomas, Julie Thomas, Justina Thomas, Madison	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538ThP 156ThP 156
Thomas, Ankur Thomas, Brian Thomas, Diane Thomas, George Thomas, Henrik Thomas, James Thomas, Julie Thomas, Julie Thomas, Justina Thomas, Madison Thomas, Madison	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538ThP 156MP 214
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716TP 707TP 200TP 528ThP 538ThP 156ThP 156MP 214TP 247
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200TP 528ThP 538ThP 156MP 214MP 214TP 247
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247TP 247TP 247TP 09:10MP 375
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 156MP 214TP 247MP 214TP 247MP 375MP 375
Thomas, Ankur Thomas, Brian Thomas, Brian Thomas, George Thomas, Henrik Thomas, James Thomas, Julie Thomas, Julie Thomas, Justina Thomas, Madison Thomas, Madison Thomas, May Thomas, Paul	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 538ThP 538ThP 156ThP 156ThP 214TP 247MP 214TP 247MP 375MP 375
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538ThP 156ThP 156MP 214TP 247MP 375MP 375MP 375MP 779MP 779
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716TP 707TP 200TP 528ThP 538ThP 156MP 214TP 247MP 375MP 375MP 375MP 779MP 780
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 780MP 116ThP 116ThP 116
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 538ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 779MP 780MP 116ThP 116ThP 116
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 779MP 780MP 116ThP 116ThP 116ThP 116ThP 116ThP 116
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 528ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 779MP 780MP 375MP 375MP 375MP 375MP 378MP 388MP 388MP 388MP 388
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 776TP 200ThP 528ThP 538ThP 558ThP 156MP 214TP 247MP 375MP 375MP 375MP 375MP 779MP 779MP 779MP 779MP 779MP 779MP 779MP 780MP 116ThP 116ThP 116ThP 116ThP 3830WP 222WP 222WP 222WP 222
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 780ThP 116ThP 116ThP 116ThP 116ThP 336MP 336
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 779MP 780MP 779MP 780ThP 116ThP 116ThP 116ThP 116ThP 116ThP 116ThP 116ThP 338TP 725TP 325TP 336
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 779MP 779MP 780MP 375MP 779MP 780MP 375MP 779MP 780MP 375MP 336MP 336WP 325MP 336WP 336MP 336MP 336MP 336MP 336MP 336MP 336
Thomas, Ankur Thomas, Brian Thomas, Brian Thomas, George Thomas, Henrik Thomas, James Thomas, Julie Thomas, Julie Thomas, Justina Thomas, Madison Thomas, Madison Thomas, Malison Thomas, Paul Thomas, Spencer Thomas, Spencer Thomas, Spencer Thomassian, Karin Thompson, Alayna	TP 553WP 077TP 024ThP 452ThP 776TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 779MP 780MP 375MP 779MP 780MP 375MP 779MP 780MP 375MP 336WP 326WP 326MP 336WP 336WP 336WP 336WP 781MP 781
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 776TP 200ThP 538ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 780MP 166MP 214TP 116MP 218MP 375MP 779MP 780MP 375MP 375MP 375MP 375MP 376MP 336WP 222MP 336WP 381WP 781MP 781MP 781MP 781MP 781
Thomas, Ankur	TP 553WP 077TP 024TP 024ThP 716ThP 716ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 780MP 375MP 780MP 375MP 375MP 780MP 375MP 320MP 320WP 222MP 336MP 347TP 4437TP 4437WP 407
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 780ThP 116ThP 116ThP 116ThP 116ThP 116ThP 116ThP 338TP 725MP 336MP 336WP 222WP 222WP 224TP 124TP 124TP 124TP 137WP 437WP 437WP 407WP 520
Thomas, Ankur. Thomas, Brian Thomas, Brian Thomas, George. Thomas, Henrik Thomas, James Thomas, Julie Thomas, Julie Thomas, Justina Thomas, Madison Thomas, Madison Thomas, Mary TOA Thomas, Paul. Thomas, Sébastien Thomas, Sepencer Thomas, Spencer Thomas, Spencer Thomas, Allison Thompson, Allison Thompson, Bonnie Thompson, Brooke	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 779MP 780MP 375MP 375MP 779MP 375MP 779MP 375MP 375MP 375MP 375MP 375MP 375MP 375MP 375MP 110ThP 116ThP 116ThP 117MP 222MP 336MP 350WP 520MP 520TP 124
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 214TP 247MP 375MP 779MP 779MP 780MP 375MP 779MP 779MP 780MP 375MP 779MP 780MP 386MP 386MP 386MP 386WP 222MP 386WP 222
Thomas, Ankur	TP 553WP 077TP 024ThP 452ThP 716ThP 707TP 200ThP 538ThP 538ThP 156MP 214TP 247MP 214TP 247MP 375MP 779MP 779MP 780MP 166MP 116MP 218MP 375MP 779MP 779MP 780MP 375MP 780MP 375MP 779MP 780MP 375MP 781WP 326MP 336WP 781WP 422TP 124YP 437WP 407WP 520TP 124TP 120TP 190TP 190TP 713
Thomas, Ankur	TP 553WP 077TP 024TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 375MP 780MP 375MP 780MP 375MP 375MP 780MP 385MP 386MP 320WP 222MP 336WP 222MP 336WP 320WP 520WP 124TP 124TP 124TP 127WP 407WP 520ThP 120TP 190TP 191TP 193TP 193TP 193TP 193TP 193TP 194TP 195TP 190TP 713TP 137
Thomas, Ankur	TP 553WP 077TP 024TP 024ThP 716ThP 716ThP 707TP 200ThP 528ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 375MP 779MP 780MP 375MP 780MP 375MP 780MP 375MP 375MP 780MP 385MP 386MP 320WP 222MP 336WP 222MP 336WP 320WP 520WP 124TP 124TP 124TP 127WP 407WP 520ThP 120TP 190TP 191TP 193TP 193TP 193TP 193TP 193TP 194TP 195TP 190TP 713TP 137
Thomas, Ankur	TP 553WP 077TP 024ThP 716ThP 716ThP 716ThP 528ThP 538ThP 538ThP 538ThP 538ThP 156MP 214TP 247MP 375MP 779MP 779MP 780MP 375MP 779MP 780ThP 116ThP 116ThP 116ThP 116ThP 336MP 336MP 336WP 222MP 336WP 222MP 336WP 225MP 336WP 225MP 336WP 220

Thompson, J. Will	. TOA	pm 04:10
Thompson, J. Will		WP 595
Thompson, Matthew		
Thornburg, Jennifer		
Thorsteinsdottir, Margret Thrall, Brian		
Thurman, E. Michael		IF 090
Thyssen, Georgina		ThP 170
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Tiambeng, Timothy		ThP 544
Tian, Hua		MP 469
Tian , Hua		
Tian , Hua		
Tian, Mei		
Tian, Mei		
Tian, Rong		
Tian, Shanshan Tian, Xiang		MP 1/2
Tian, Xlang		
Tibshirani, Robert		
Tichacek, Laura		ThP 680
Tichy, Ales		WP 069
Tichy, Shane	WOG	pm 04:10
Tichy, Shane		WP 477
Tiemann, Katrin		WP 113
Tierney, Anna		MP 422
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Tierny, Dominique		ThP 032
Tierny, Dominique		
Tigges, John		
Tikhonov, George		WP 317
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Timm, Wiebke		
Timm, Wiebke		WP 427
Timmerman, Evy		
Timperman, Aaron		ThP 561
Ting, Alice		TP 672
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Tingxia, Dong		TP 416
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Tiquet, Mathieu Tirucherai, Giridhar		IP 361
Titman, Christopher		
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Titov, Victor		
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Tiwary, Ekta		MP 503
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Toal, Douglas		TP 738
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Tobias, Fernando		
Toby, Timothy Todd, Aaron		
Todd, Aaron		
Todd, Daniel		
Todua, Nino	WOG	am 10:10
Tokarski, Caroline		
Tokarski, Caroline		
Tokmina-Lukaszewska, Monika		MP 753
Tokmina-Lukaszewska, Monika		
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Toler, Strawn		WP 152 MP 753 TP 483
Tolic, Nikola	wog	WP 152 MP 753 TP 483 pm 02:50
Tolic, Nikola Tollenaar, Rob	wog	WP 152 MP 753 TP 483 pm 02:50 ThP 060
Tolic, Nikola Tollenaar, Rob Tolley, Neil	WOG	WP 152 MP 753 TP 483 pm 02:50 ThP 060 pm 02:50
Tolic, Nikola Tollenaar, Rob Tolley, Neil Tolstikov, Vladimir	WOG	WP 152 MP 753 TP 483 pm 02:50 ThP 060 pm 02:50 ThP 434
Tolic, Nikola Tollenaar, Rob Tolley, Neil Tolstikov, Vladimir Tomás, Ana	WOG	WP 152 MP 753 TP 483 pm 02:50 ThP 060 pm 02:50 ThP 434 WP 711
Tolic, Nikola Tollenaar, Rob Tolley, Neil Tolstikov, Vladimir Tomás, Ana Tomaszewska, Irmina	WOG WOE	WP 152 MP 753 TP 483 pm 02:50 ThP 060 pm 02:50 ThP 434 WP 711
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Urbanska, Katarzyna	ThOA ThOD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 600 ThP 303 MP 039 MP 058 MP 058 MP 334 MP 134
Urbanska, Katarzyna	ThOA ThOD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 600 ThP 303 MP 039 MP 058 MP 058 MP 334 MP 134
Urbanska, Katarzyna Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urlaub, Henning Urlaub, Henning. Urlaub, Henning. Urlaub, Henning. Uvlaub, Henning. Uvlaub, Henning. Uvlaub, Henning. Uvalle, Crystal. Uwugiaren, Naomi. Vaca, Sebastian Vachet, Richard.	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 MP 754 pm 03:30 MP 039 MP 058 MP 334 MP 358 MP 358
Urbanska, Katarzyna Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urlaub, Henning Urlaub, Henning Urlaub, Henning Urlaub, Henning Urlaub, Henning Urlaub, Henning Urshijima, Hiroshi Uvalle, Crystal Uwugiaren, Naomi Vaca, Sebastian Vachet, Richard	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 600 ThP 334 MP 039 MP 038 MP 038 MP 058 MP 334 ThP 649 am 09:50 pm 03:10
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 594 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 600 ThP 600 ThP 324 MP 754 pm 03:30 MP 038 MP 058 MP 334 ThP 649 pm 03:10 MP 039 pm 03:10 WP 131
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 630 TP 634 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 058 MP 039 MP 131 MP 764
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 630 ThP 324 MP 754 pm 03:30 MP 039 MP 058 MP 058 am 09:50 pm 03:10 WP 131 WP 131 WP 131
Urbanska, Katarzyna	ThOA ThOD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 MP 754 pm 03:30 MP 039 MP 058 MP 344 MP 344 MP 354 MP 364 MP 365 MP 364 MP 364 MP 364 MP 364 MP 764 ThP 672 MP 573
Urbanska, Katarzyna Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Marjeta Urh, Merjeta Urlaub, Henning Urlaub, Henning Urlaub, Henning Urshijima, Hiroshi Uvalle, Crystal. Uwuglaren, Naomi Vaca, Sebastian Vachet, Richard	ThOATOA	MP 003 MP 657 ThP 354 ThP 699 TP 630 MP 043 pm 02:50 pm 03:30 TP 634 MP 754 pm 03:30 MP 039 MP 058 MP 334 MP 334 ThP 690 MP 131 MP 764 MP 764 MP 764 MP 764 MP 777
Urbanska, Katarzyna	ThOA ThODTOA	MP 003 MP 657 ThP 354 ThP 699 TP 630 MP 043 pm 02:50 pm 03:30 TP 634 ThP 600 ThP 354 MP 039 MP 039 MP 038 MP 038 MP 334 ThP 640 MP 754 pm 03:10 MP 764 MP 764 MP 764 MP 764 MP 764 ThP 672 WP 573 TP 777 pm 03:30
Urbanska, Katarzyna	ThOATOATOD WOB	MP 003 MP 657 ThP 639 ThP 620 MP 043 pm 02:50 pm 03:30 ThP 634 ThP 630 ThP 324 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 058 MP 540 MP 540 MP 754 MP 754 MP 754 MP 754 MP 754 ThP 649 MP 754 ThP 672 WP 573 TP 777 pm 03:50 TP 777 pm 03:50 TP 777
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 639 MP 754 pm 03:30 MP 754 pm 03:30 MP 039 MP 058 MP 334 ThP 649 am 09:50 pm 03:10 WP 131 MP 754 ThP 672 WP 573 TP 777 pm 03:30 TP 677 TP 657 MP 520
Urbanska, Katarzyna	ThOA ThOD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 639 MP 754 pm 03:30 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 334 MP 334 ThP 649 am 09:50 pm 03:10 WP 573 TP 777 pm 03:30 TP 577 pm 03:30 TP 552 MP 562 MP 525
Urbanska, Katarzyna	ThOA ThOD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 639 MP 754 pm 03:30 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 334 MP 334 ThP 649 am 09:50 pm 03:10 WP 573 TP 777 pm 03:30 TP 577 pm 03:30 TP 552 MP 562 MP 525
Urbanska, Katarzyna	ThOA ThODTOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 MP 754 pm 03:30 MP 039 MP 058 MP 344 MP 349 am 09:50 pm 03:10 WP 131 MP 764 MP 376 ThP 676 MP 573 TP 777 pm 03:30 TP 657 MP 520
Urbanska, Katarzyna	ThOA ThODTOA	MP 003MP 657ThP 354ThP 699TP 630TP 630TP 630ThP 630ThP 354MP 754 pm 03:30MP 039MP 058MP 334MP 344MP 754 pm 03:10WP 131MP 764MP 573TP 777 pm 03:30TP 657MP 520MP 520MP 525MP 706
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 639 ThP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 630 ThP 324 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 058 MP 540 MP 754 ThP 640 MP 764 MP 764 ThP 672 WP 573 TP 777 pm 03:30 TP 657 MP 525 WP 520 WP 520 WP 520 MP 704
Urbanska, Katarzyna	ThOA ThOD TOA	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 TP 634 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 039 MP 131 MP 131 MP 134 MP 754 MP 573 MP 573 TP 777 pm 03:30 TP 672 MP 520 MP 520 MP 520 MP 520 MP 766 TP 148 TP 148 TP 148
Urbanska, Katarzyna	ThoA ThoD	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 639 MP 754 pm 03:30 MP 754 pm 03:30 MP 039 MP 058 MP 334 ThP 649 am 09:50 pm 03:10 WP 573 TP 777 pm 03:30 TP 777 pm 03:30 TP 652 MP 525 MP 526 MP 766 MP 526 MP 766 MP 462 MP 462 MP 462 MP 462 MP 462 MP 462
Urbanska, Katarzyna	ThOA ThOD	MP 003MP 657ThP 354ThP 639TP 620MP 043 pm 02:50 pm 03:30TP 634MP 754 pm 03:30MP 058MP 058MP 058MP 393MP 131MP 394MP 395MP 395MP 396MP 397MP 549MP 398MP 398MP 398MP 398MP 398MP 398MP 398MP 398MP 549MP 549MP 560MP 573TP 777 pm 03:30TP 650MP 525WP 520MP 526MP 462TP 148ThP 148ThP 1619
Urbanska, Katarzyna	ThOA ThODTOA	MP 003MP 657ThP 354ThP 639TP 630TP 634MP 033MP 033MP 039MP 058MP 058MP 344MP 344MP 364MP 364MP 364MP 364MP 365MP 364MP 364MP 364MP 166MP 365MP 170MP 170THP 180MP 170THP 190THP 190THP 190THP 190THP 190THP 190THP 190
Urbanska, Katarzyna	ThOA ThODTOA	MP 003 MP 657 ThP 354 ThP 690 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 ThP 690 MP 754 pm 03:30 MP 039 MP 039 MP 039 MP 549 MP 549 MP 573 TP 672 WP 573 TP 777 pm 03:00 MP 525 MP 520 MP 520 MP 520 MP 148 ThP 619 TP 148 ThP 619 TP 929 pm 03:50
Urbanska, Katarzyna	ThOA ThOD TOD WOB	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 TP 634 MP 754 pm 03:30 MP 039 MP 039 MP 334 MP 334 MP 754 pm 03:30 MP 549 MP 334 TP 777 pm 03:30 TP 777 pm 03:30 TP 777 pm 03:30 TP 657 MP 520 MP 520 MP 520 MP 766 TP 148 TP 156 MP 462 TP 166 TP 1992 pm 03:50 MP 377
Urbanska, Katarzyna	ThOA ThOD TOD WOB WOB	MP 003 MP 657 ThP 354 ThP 699 TP 620 MP 043 pm 02:50 pm 03:30 TP 634 TP 634 MP 754 pm 03:30 MP 039 MP 039 MP 334 MP 334 TP 649 am 09:50 pm 03:10 WP 573 TP 777 pm 03:30 TP 672 MP 520 MP 520 MP 520 MP 520 MP 619 TP 148 TP 156 MP 462 TP 619 TP 292 pm 03:50 MP 350 MP 351 TP 619 TP 292 pm 03:50 MP 377 pm 03:10

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Van Amerom, Friso	
Van amerom, Friso h.w	
Van Asten, Arian W	/OC nm 02:30
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van der Hooft, Justin Van Der Lijke, Henk. Van Der Riet-van Oeveren, Debor Van der Steen, Antonius Van Elst, Dries Van Eyk, Jennifer Van Eyk, Jennifer Van Eyk, Jennifer Van Gool, Alain van Heekeren, Vivian Van Heest, Rachel Van Houtven, Joris Ti	WP 410 ThP 145 raThP 004 WP 361 ThP 743 nOF am 10:10 WP 126 WP 224 ThP 220 10H pm 03:50 TP 068 nOA pm 03:10
van der Hooft, Justin Van Der Lijke, Henk Van Der Riet-van Oeveren, Debor Van der Steen, Antonius Van Elst, Dries Van Eyk, Jennifer Van Eyk, Jennifer Van Eyk, Jennifer Van Gool, Alain van Heekeren, Vivian Van Heest, Rachel Van Houtven, Joris Ti Van Huyen, Jean-Paul	WP 410ThP 145 raThP 004WP 361ThP 743 nOF am 10:10WP 126WP 224ThP 220 IOH pm 03:10TP 068 nOA pm 03:10WP 367
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van der Hooft, Justin Van Der Lijke, Henk. Van Der Riet-van Oeveren, Debor Van der Steen, Antonius Van Elst, Dries Van Eyk, Jennifer Van Eyk, Jennifer Van Eyk, Jennifer Van Gool, Alain van Heekeren, Vivian Van Heest, Rachel Van Houtven, Joris Van Huyen, Jean-Paul Van Meulebroek, Lieven	WP 410ThP 145 aThP 004WP 361ThP 743 hOF am 10:10WP 126WP 224ThP 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367
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van der Hooft, Justin	WP 410ThP 145 raThP 004WP 361ThP 743 nOF am 10:10WP 126WP 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367WP 310 IOD am 08:50WP 351
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van der Hooft, Justin	WP 410ThP 145 raThP 004WP 361WP 361WP 126WP 126ThP 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367WP 351MP 351ThP 563 TOG pm 03:10
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van der Hooft, Justin	WP 410ThP 145 raThP 004WP 361ThP 743 nOF am 10:10WP 126WP 126ThP 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367WP 310 IOD am 08:50MP 351ThP 563 TOG pm 03:10WP 323WP 363ThP 489MP 218
van der Hooft, Justin	WP 410ThP 145 raThP 004WP 361ThP 743 nOF am 10:10WP 126WP 126ThP 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367WP 310 IOD am 08:50MP 351ThP 563 TOG pm 03:10WP 323WP 363ThP 489MP 218
van der Hooft, Justin	WP 410ThP 145 raThP 004WP 361ThP 743 nOF am 10:10WP 126Th 220 IOH pm 03:50TP 068 nOA pm 03:10WP 367WP 310 IOD am 08:50MP 351MP 563 TOG pm 03:10WP 323WP 364MP 658MP 658MP 489MP 218
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Varga, ViktoriaVarga, Viktoria	ThP 031
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Vargas, Fernando	MP 440
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Velebný, Vladimír	
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Veličković, DušanMOE Vella, LauraMOE Vellaichamy, Adaikkalam	TP 388 E am 08:30 ThP 123
Veličković, DušanMOE Vella, LauraMOE Vellaichamy, AdaikkalamVeltri, Charles	TP 388 E am 08:30 ThP 123 ThP 586
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Veličković, Dušan	TP 388 E am 08:30 ThP 123 ThP 586 TP 620 I pm 04:10 E am 08:30 TP 388
Veličković, Dušan	TP 388 E am 08:30ThP 123ThP 586TP 620 H pm 04:10 E am 08:30TP 388 E am 10:10
Veličković, Dušan	TP 388 E am 08:30ThP 123ThP 586TP 620 H pm 04:10 E am 08:30TP 388 F am 10:10WP 224
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Veličković, Dušan	TP 388 E am 08:30ThP 123ThP 586TP 620 H pm 04:10 E am 08:30TP 388 F am 10:10TP 626 C pm 03:10ThP 116 F pm 02:30ThP 116 F pm 02:30WP 538MP 102ThP 233ThP 233ThP 347ThP 353
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Veličković, Dušan	TP 388 E am 08:30ThP 123ThP 586TP 620 H pm 04:10 E am 08:30TP 388 F am 10:10WP 224ThP 056 C pm 03:10ThP 116 F pm 02:30WP 538MP 102ThP 233ThP 347WP 353WP 783WP 783WP 783WP 783
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Verenta, Gugileinio	VVF 002
Versalovic, James	INP 539
Verschueren, Erik	.ThOC pm 02:30
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Vertes, Akos	
Vertes, Akos	
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Veselkov, Dennis	TOB pm 04:10
Veselkov, Kirill	TOB pm 04:10
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Vesper, Hubert	
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Vidal, Meghan	
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Vidal-De-Miguel, Guillermo	
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Vierra, Craig	
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Vicita, Micrael	٧٧٢ 033
Vigne, Sébastien	TP 454
Vigne, Sébastien Vila Costa, Maria	TP 454 WOE am 09:10
Vigne, Sébastien	TP 454 WOE am 09:10
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Vigne, Sébastien	TP 454 WOE am 09:10 MP 774 MP 774 ThP 045
Vigne, Sébastien	TP 454WOE am 09:10MP 774MP 774ThP 045
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Vigne, Sébastien	TP 454WOE am 09:10MP 774ThP 045WP 488WP 517
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Wei, Yangjie	WP 590MP 292TP 037TP 054ThP 015 VOD am 08:50WP 373ThP 745
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Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Weichert, Wilko Weil, Brian Weil, David Weil, Tanja Weinberger, Scot	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373ThP 745WP 534MP 634
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Zhenwei Weil, Brian Weil, David Weil, Tanja Weinberger, Scot Weinberger, Scot	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373ThP 745WP 534MP 634MP 666MP 666
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Zhenwei Wei, Brian Weil, Brian Weil, David Weil, Tanja Weinberger, Scot Weinberger, Scot Weiner, Amber K	WP 590MP 292TP 037TP 054ThP 015 VOD am 08:50WP 373ThP 745WP 534MP 634MP 6661MP 6661
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Weichert, Wilko Weil, Brian Weil, David Weil, Tanja Weinberger, Scot Weinberger, Scot Weinberger, Amber K Weingarten, Amit	WP 590MP 292TP 037Th 015 VOD am 08:50WP 373ThP 745WP 534MP 664MP 666 FOD pm 03:30
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Weichert, Wilko Weil, Brian Weil, David Weil, Tanja. Weinberger, Scot. Weinberger, Scot. Weinberger, Amber K. Weinpold, Jonathan	WP 590MP 292TP 037Th 015 VOD am 08:50WP 373ThP 745WP 534MP 664MP 666 FOD pm 03:30TP 463
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Zhenwei Weil, Brian Weil, David Weil, Tanja Weinberger, Scot Weinberger, Scot Weiner, Amber K Weinhold, Jonathan Weinmann, Wolfgang	WP 590MP 292TP 037TP 054TP 055WP 373Th 745WP 534MP 634MP 666MP 666MP 666TP 466TP 460TP 460TP 460
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Brian Weil, Brian Weil, Tanja Weinberger, Scot Weinberger, Scot Weinberger, Amber K Weingarten, Amit Weinhold, Jonathan Weinmann, Wolfgang Weinstein, John	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373Th 745WP 634MP 634MP 666MP 666MP 666TP 463TP 463Th 760WP 542
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Brian Weil, Brian Weil, Tanja Weinberger, Scot Weinberger, Scot Weinberger, Amber K Weingarten, Amit Weinhold, Jonathan Weinmann, Wolfgang Weinstein, John Weinstein, John	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373Th 745MP 634MP 666MP 666MP 666TP 463TP 463TP 463TP 544WP 543
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Zhenwei Weil, Brian Weil, David Weil, Tanja Weinberger, Scot Weinberger, Scot Weinberger, Amber K Weingarten, Amit Weinhold, Jonathan Weinmann, Wolfgang Weinstein, John Weintraub, Susan	WP 590MP 292TP 037Th 015WP 373WP 373MP 634MP 664MP 666MP 666TP 463TP 463TP 463TP 463WP 576
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Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Zhenwei Wei, Brian Weil, Brian Weil, David Weil, Tanja. Weinberger, Scot Weinberger, Scot Weinberger, Amber K. Weingarten, Amit Weinhold, Jonathan Weinmann, Wolfgang Weinstein, John Weinstein, John Weinstein, John Weinstein, John Weintraub, Susan Weintraub, Susan	WP 590MP 292TP 037TP 054TP 055WP 373Th 745WP 534MP 661MP 666MP 666TP 466TP 460TP 452WP 542MP 543WP 542MP 543
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Wei, Yangjie. Wei, Yiping Wei, Yiping Wei, Zhenwei. Wei, Zhenwei. Wei, Zhenwei. Weil, Brian. Weil, David Weil, Tanja. Weinberger, Scot. Weinberger, Scot. Weinberger, Amber K. Weingarten, Amit Weinhold, Jonathan. Weinmann, Wolfgang Weinstein, John Weinstein, John Weintraub, Susan	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373Th 745WP 634MP 664MP 666TP 463TP 463TP 463TP 548WP 576Th 750TP 528MP 542WP 576Th 752Th 7528Th 7672WP 395WP 395
Wei, Yangjie Wei, Yiping Wei, Yiping Wei, Zhenwei Wei, Zhenwei Wei, Brian Weil, Brian Weil, Tanja Weinberger, Scot Weinberger, Scot Weinberger, Scot Weinberger, Amit Weinhold, Jonathan Weinmann, Wolfgang Weinstein, John Weinstein, John Weinstein, John Weintraub, Susan Weis, David	WP 590MP 292TP 037TP 054TP 015 VOD am 08:50WP 373Th 745WP 534MP 634MP 666MP 666MP 666MP 666MP 543TP 463TP 463TP 543WP 544WP 542WP 543WP 543WP 576ThP 528ThP 528ThP 538ThP 539WP 395WP 395
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Welham, Nathan		VVF 370
Nelker, Frido		
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Welle, Kevin		
Nellen, Kathryn		
Wellen, Kathryn		MP 552
Wellen, Kathryn	.WOA	am 09:50
Weller, Harold		
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Nelp, Luisa	INOD	pm 03:30
Welsh, Eric		WP 605
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Nen, Chen-Hao		ThP 424
Nen, Xinxin		
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Manallan Mishaal	. VVOA	piii 02.30
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Wendt, Cornelius		InP 298
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Wenk, Markus		MP 532
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Werth, Emily		MP 613
Werth, Emily	ThOC	pm 03:10
Werth , Emily		
Nertz, Julie	MOH	am 10.10
Nertz , Julie	. IVIOI I	MD 200
Mertz, Julie		IVIP 390
Nertz, Julie		
Wertz, Julie		MP 445
Wesdemiotis, Chrys		MP 628
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West, Graham		ThD 729
West, Michelle		
Noot Detries		TD 704
West, Patrick		
Nest, Raymond		Inp /50
Westerman, Danielle		MP 114
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Nesterman, Danielle	TOE	pm 02:50
Nestland, Jessica		TP 241
Westland, Kevin		
Westling, Lucas		WP 237
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Moothball Michael	ThO!!	nm 00:40
Westphall, Michael		
Westphall, Michael		
Westphall, Michael	TOG	pm 02:30
Westphall, Michael		TP 492
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Netzel, Molly		MD 795
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Wexler, Aaron		VVP 3/6
Ney , Eric		
Nevher. Elisabeth		MD 707

Whalen, PamelaThOD	140 045
Whoat Andrew ThOD	MP 017
	nm 02.50
Wherritt, Daniel	ThP 464
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Whitby, RichardTOB	am 08:30
White, Amanda	WP 407
White, Cory	IP 690
White, Forest	TP 579
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White, Mitchell	INP 216
White, Nicole	MP 067
White, Patrick	
White, Samuel	MP 136
White, Wendy	ThP 661
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Whitley, Elizabeth	IP 397
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Whitmore, Christopher WOC	nm 02.50
Whittal, Randy	MP 522
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Wickramasinghe, Vihandha	
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Wigmore, Cassandra	MP 670TP 015TP 589MP 446MP 492ThP 024TP 107WP 303MP 361TP 132MP 352
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Wigmore, Cassandra	MP 670 TP 015 TP 589 MP 446 TP 107 WP 303 MP 361 TP 132 MP 352 ThP 755 WP 678 WP 138
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Wigmore, Cassandra Wigmore, Cassandra Wijeratne, Neloni Wijesinghe, Dayanjan Wijesinghe, Dayanjan Wilcock, Brandon Wilcock, Brandon Wilcock, Brandon Wilcox, Callan Wildman, Spencer Wildman, Spencer Wildman, Kyle Wilhelm, Kyle Wilhelm, Kyle Wilhelm, Mathias Wilherson, Emily Wilkerson, Mathew MOH Wilkins, James	MP 670 TP 015 TP 589 MP 446 MP 492 ThP 024 TP 107 WP 303 MP 361 MP 352 MP 352 MP 352 WP 678 WP 138 WP 091 WP 124 pm 02:50 TP 157 WP 488 am 09:10 MP 383 am 09:10 TP 422 TP 654 WP 398 WP 398 WP 398 WP 730 TP 765 am 09:50
Wigmore, Cassandra Wigmore, Cassandra Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijesinghe, Dayanjan Wilcock, Brandon Wildman, Spencer Wildman, Kyle Wilhelm, Kyle Wilhelm, Mathias Wilkerson, Emily Wilkirson, Mathew Wilkins, James Wilkins, John	MP 670 TP 015 TP 589 MP 446 MP 449 Th 107 WP 303 MP 361 TP 132 MP 352 MP 352 MP 678 WP 138 WP 091 WP 124 pm 02:50 TP 157 WP 488 WP 091 Th 272 pm 02:50 TP 422 TP 654 WP 241 WP 398 WP 730 TP 765 WP 398 WP 730 TP 765 WP 398 WP 730 TP 6694 MP 024
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Wigmore, Cassandra Wigmore, Cassandra Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijeratne, Neloni Wijesinghe, Dayanjan Wijesinghe, Dayanjan Wijesinghe, Dayanjan Wilcock, Brandon Wilcock, Brandon Wilcock, Brandon Wilcox, Callan Wildman, Spencer Wildsmith, Kristin Wilharm, Thomas TOH Wilhelm, Kyle Wilhelm, Mathias MOA Wilhelm, Mathias Wilkerson, Emily Wilkirson, Mathew MOH Wilkins, James Wilkins, John Wilkins, John	MP 670 TP 015 TP 589 MP 446 MP 442 Th 107 WP 303 MP 361 TP 132 MP 352 MP 678 WP 678 WP 678 WP 124 pm 02:50 TP 157 WP 488 pm 02:50 TP 157 WP 488 pm 02:50 TP 157 WP 488 pm 02:50 TP 654 WP 272 TP 654 WP 241 WP 398 WP 730 TP 765 am 09:50 Th 694 MP 024 MP 024 MP 024 MP 024 MP 024 MP 375
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Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfender, Jean-Luc	TP 262TP 431WP 415ThP 360WP 686WP 686WP 686MP 690MP 681 am 08:30 pm 03:30WP 565WP 575TP 093MP 611
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jerôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolff, Jeremy	TP 262TP 431WP 415WP 045WP 680WP 686MP 680MP 168MP 681 am 08:30 pm 03:30 pm 03:30WP 565TP 093WP 575TP 278TP 278ThP 519MP 566MP 566
Woerner, August Woerner, August Wohlgemuth, Gert. Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Wojcik, John Wojcik, Roza	TP 262TP 431WP 415ThP 360WP 045WP 686WP 686MP 680MP 168MP 681 am 08:30 pm 03:30 pm 03:30WP 575TP 093MP 611ThP 278ThP 519MP 566ThP 519MP 566ThP 245
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jórôme Wojcik, John Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolf-Levy, Hila	TP 262TP 431WP 415WP 645WP 680WP 686MP 681MP 681 am 08:30 pm 03:30WP 575TP 093MP 565TP 093MP 519TP 519MP 566TP 174TP 724
Woerner, August Woerner, August Wohlgemuth, Gert. Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jórôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis. ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolfla, Levy, Hila Wollnik, Hermann	TP 262TP 431WP 415ThP 360WP 685WP 686WP 686MP 681MP 681 am 08:30 pm 03:30WP 565TP 093MP 519MP 519MP 566ThP 278ThP 278
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jónn Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolf, Jeremy Wolfla, Wollnik, Hermann Wong, Alexander MOH	TP 262TP 431WP 415ThP 360WP 685WP 686MP 680MP 681 am 08:30 pm 03:30WP 565WP 575TP 093MP 611ThP 278ThP 519MP 566ThP 245TP 174TP 724TP 724 am 09:50
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfender, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Levy, Hila Wollnik, Hermann Wong, Alexander MOH	TP 262TP 431WP 415WP 680WP 686WP 686MP 690MP 681 am 08:30 pm 03:30WP 565WP 575TP 093MP 611ThP 278TP 519MP 566TP 174TP 724 am 09:50MP 162
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolflacy, Hila Wollnik, Hermann Wong, Alexander Wong, Amanda Wong, Cassandra ThOC	TP 262TP 431WP 415WP 045WP 045WP 680WP 686MP 681MP 681 am 08:30 pm 03:30 pm 03:30WP 575TP 093WP 575TP 278MP 611ThP 519MP 566TP 174TP 724TP 724TP 724TP 462 am 09:50MP 162 pm 03:30
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Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jesn Wolfe, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolfl, Levy, Hila Wollnik, Hermann Wong, Alexander Wong, Cassandra Wong, Cassandra Wong, Catherine C L	TP 262TP 431WP 415ThP 360WP 685WP 686MP 680MP 681 am 08:30 pm 03:30WP 565TP 093MP 566TP 278ThP 278ThP 245TP 174TP 724TP 462 am 09:50MP 162 pm 03:30ThP 090TP 670
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jórôme Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolfl, Hermann Wong, Alexander. MOH Wong, Amanda Wong, Cassandra Wong, Catherine C L Wong, David	TP 262TP 431WP 415ThP 360WP 685WP 686MP 680MP 681MP 681 am 08:30 pm 03:30WP 565TP 093MP 519MP 566ThP 245TP 174TP 724TP 462 am 09:50TP 462 pm 03:30ThP 090TP 670TP 670
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Mojcik, Roza MOF Wolan, Dennis. ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Levandar Wong, Alexander Wong, Amanda Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, David Wong, David	TP 262TP 431WP 415WP 680WP 686WP 686MP 680MP 681 am 08:30 pm 03:30WP 565TP 093MP 611ThP 278TP 519MP 566TP 174TP 724TP 724TP 462 am 09:50MP 162 pm 03:30ThP 090TP 670TP 670
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Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jórôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Leisa Wolfe, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolfl, Hermann Wong, Alexander Wong, Amanda Wong, Cassandra Wong, Cassandra Wong, Catherine C L Wong, David Wong, David Wong, David Wong, David Wong, Jenny	TP 262TP 431WP 415WP 680WP 686WP 686MP 681MP 681 am 08:30 pm 03:30WP 575TP 093MP 565TP 093MP 566TP 245TP 245TP 462 am 09:50MP 168 am 09:50MP 670MP 670MP 670MP 670MP 670MP 670MP 670MP 670MP 670MP 673
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Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, Jórôme Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jesa Wolfender, Jean-Luc Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolf-Levy, Hila Wollnik, Hermann Wong, Alexander Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, David Wong, David Wong, David Wong, Jenny Wong, Kin-Sing Wong, Lee-Yang	TP 262TP 431WP 415ThP 360WP 685WP 686MP 680MP 681 am 08:30 pm 03:30WP 565TP 093MP 561ThP 278ThP 519MP 566ThP 245TP 174TP 724TP 462 am 09:50MP 162 pm 03:30TP 670MP 643TP 590TP 590TP 590TP 590TP 670MP 643TP 590TP 063TP 063TP 063TP 063
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Elsa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wong, Alexander Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, David Wong, David Wong, David Wong, David Wong, Jenny Wong, Kin-Sing Wong, Maurice Wong, Maurice ThOG	TP 262TP 431WP 415ThP 360WP 685WP 686MP 680MP 680MP 681 am 08:30 pm 03:30WP 565WP 575TP 093MP 611ThP 278TP 174TP 724TP 462 am 09:50MP 162 pm 03:30TP 690TP 690TP 670MP 643TP 590WP 038TP 063TP 063TP 063TP 063
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlrab, Stefanie Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, John Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Pavlina Wolfe, Lisa Wolfender, Jean-Luc Wolff, Jeremy Wolf-Levy, Hila Wollnik, Hermann Wong, Alexander Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, David Wong, David Wong, David Wong, Jeny Wong, Kin-Sing Wong, Maurice ThOG Wong, Maurice	TP 262TP 431WP 415WP 045WP 045WP 680WP 686MP 680MP 168MP 681 am 08:30 pm 03:30WP 575TP 093MP 561TP 278TP 278TP 174TP 724TP 724TP 724TP 7724TP 760MP 663MP 663MP 663TP 909TP 670MP 643TP 670MP 643TP 690TP 063TP 063TP 063TP 063TP 063TP 063TP 174TP 063TP 063TP 174TP 174TP 174TP 174TP 175MP 164TP 176MP 164TP 176TP 176
Woerner, August Woerner, August Wohlgemuth, Gert Wohlrab, Stefanie Wohlschlegel, James Wohlschlegel, James Wojcik, Jérôme Wojcik, John Wojcik, Roza MOF Wolan, Dennis ThOB Wolf, Barbara Wolf, Barbara Wolf, Elsa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Lisa Wolfe, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wolff, Jeremy Wong, Alexander Wong, Cassandra Wong, Cassandra Wong, Cassandra Wong, David Wong, David Wong, David Wong, David Wong, Jenny Wong, Kin-Sing Wong, Maurice Wong, Maurice ThOG	TP 262TP 431WP 415WP 045WP 680WP 686MP 680MP 681 am 08:30 pm 03:30WP 575WP 575TP 093MP 611ThP 278TP 278TP 174TP 174TP 724TP 462 am 09:50MP 162 pm 03:30MP 613TP 903TP 903TP 906TP 174TP 724TP 724TP 462 am 09:50MP 162 pm 03:30TP 670MP 643TP 590TP 063TP 063TP 063TP 063TP 063TP 063TP 063TP 063TP 063TP 210WP 080

Woo, Christina	TP 709
Wood, Andrew	ThP 508
Wood, Andrew	WD 634
Wood, Ellen	ThOE 00:40
Wood, Ellen	ThP 548
Wood, Jennifer	WP 579
Wood, Madeleine	WP 356
Wood, Michelle	TP 516
Wood, Michelle	
Wood, Silas	MP /25
Wood, Tim	MP 078
Wood, Tim	WP 555
Wood, Troy	MP 605
Wood, Troy	WP 597
Woodall, Daniel	ThOE nm 02:50
Woodall, Dariel	. 11101 pili 02.30
Woodall, Daniel	
Woodall, Daniel	TOC am 09:50
Woodman, Michael	WP 534
Woodmansey, Kean	ThP 336
Woods, Amina	MP 256
Woods, Amina	ThD 404
Woods, Amina	
Woods, Christopher	TOA pm 04:10
Woods, Joshua	TOG am 09:50
Woods, Lucy	MP 348
Woods, Lucy	ThP 395
Woods, Lucy	TD 375
Woods, Lucy	TD 202
woods, Lucy	1P 392
Woods, Lucy	WP 103
Woodward, Nicholas	ThP 467
Woodward, Sarah	TP 651
Woodward, William	ThP 020
Woodward, Zachary	\\\D 553
Woodward, Zacriary	VVF 333
Woody, Spencer	IP 110
Wooke, Zachary	ThP 081
Woolfitt, Adrian	ThP 128
Woolfitt, Adrian	TP 134
Woolfitt, Adrian	TD 120
Wooling, Adrian	IF 130
Woolsey, Rebekah	MP 603
Wootton, Christopher	MOD pm 02:50
	p 02.00
Wootton, Christopher	ThP 094
Wootton, Christopher Wootton, Christopher	ThP 094
Wootton, Christopher	ThP 094
Wootton, Christopher Wootton, Christopher	ThP 094 TOC am 09:10 TP 706
Wootton, Christopher Wootton, Christopher Wootton, Christopher	ThP 094TOC am 09:10TP 706 .WOC am 10:10
Wootton, Christopher	TOC am 09:10 TOC am 09:10 TP 706 . WOC am 10:10 . WOH am 08:50
Wootton, Christopher	ThP 094TOC am 09:10TP 706TP 706TP 306TP 306 .
Wootton, Christopher	ThP 094TOC am 09:10TP 706TP 706TP 306TOC am 10:10TP 306TP 314
Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly	ThP 094TOC am 09:10TP 706TO am 10:10WOC am 10:10WOH am 08:50MOB pm 03:50ThP 314
Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly	ThP 094TOC am 09:10TP 706TO am 10:10WOC am 10:10WOH am 08:50MOB pm 03:50ThP 314
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly	ThP 094TOC am 09:10TP 706TP 706WOC am 10:10WOB pm 03:50ThP 314ThP 317
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly	ThP 094TOC am 09:10
Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wornwood, Kelly	ThP 094TOC am 09:10TP 706
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Worsfold, Camilla	ThP 094TOC am 09:10TP 706 WOC am 10:10 WOH am 08:50ThP 314ThP 317WP 230WP 251WP 468
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Worsfold, Camilla Wouters, Clovis	ThP 094TOC am 09:10TP 706WOC am 10:10ThP 314ThP 317WP 230WP 251
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Camilla Wouters, Clovis Wouters, Eloy	ThP 094TOC am 09:10TP 706WOC am 10:10WOH am 08:50MOB pm 03:50MOB pm 31:40ThP 317WP 230WP 251WP 460MP 701ThP 052
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Camilla Wouters, Clovis Wouters, Eloy	ThP 094TOC am 09:10TP 706WOC am 10:10WOH am 08:50MOB pm 03:50MOB pm 31:40ThP 317WP 230WP 251WP 460MP 701ThP 052
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia Wormwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy	ThP 094 TOC am 09:10 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052
Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wornwood, Kelly Wornwood, Kelly Wornwood, Kelly Wornwood, Kelly Wornwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy	ThP 094 TOC am 09:10 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 314 ThP 37 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wozniak, Jacob Wranik, Bernd	ThP 094TOC am 09:10TP 706 WOC am 10:10 WOH am 08:50MOB pm 03:50ThP 314
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wozniak, Jacob Wranik, Bernd Wright, Allison	ThP 094TOC am 09:10
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wozniak, Jacob Wranik, Bernd Wright, Allison	ThP 094TOC am 09:10
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly W	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 458 ThP 585 MP 141
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wou	ThP 094 TOC am 09:10 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 455 ThP 455 MP 7885 MP 141 WP 599
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wothers, Eloy Wothers, Eloy Wothers, Eloy Wouters,	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 314 ThP 37 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 455 ThP 585 MP 141 WP 599
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Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worton, Christopher Worbs, Sylvia Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Wormwood, Kelly Worsfold, Camilla Wouters, Clovis Wouters, Eloy Wouters, Eloy Wouters, Eloy Wouters, Eloy Wozniak, Jacob Wranik, Bernd Wright, Allison Wright, Anthony Wright, Erik S. Wright, Kenneth Wright, Lori	ThP 094TOC am 09:10TP 706 WOC am 10:10 WOH am 08:50MOB pm 03:50ThP 314ThP 317
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia. Wormwood, Kelly Wouters, Eloy Wout	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 458 MP 141 WP 599 WOA pm 04:10 WP 705
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worton, Christopher Worbs, Sylvia. Wormwood, Kelly Wouters, Eloy Wout	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 458 MP 141 WP 599 WOA pm 04:10 WP 705
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worts, Sylvia	ThP 094 TOC am 09:10 WOC am 10:10 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 314 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 458 MP 141 WP 599 WOA pm 04:10 WP 353 ThP 458 WP 705
Wootton, Christopher Wootton, Christopher Wootton, Christopher Wootton, Christopher Worbs, Sylvia	ThP 094 TOC am 09:10 TP 706 WOC am 10:10 WOH am 08:50 MOB pm 03:50 ThP 314 ThP 317 WP 230 WP 251 WP 469 ThP 410 MP 701 ThP 052 TP 525 WP 144 TP 038 ThP 455 MP 141 WP 599 WOA pm 04:10 WP 363 ThP 456 WP 705 WP 705
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Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Weili Xu, Andy. Xu, Ankai Xu, Chongfeng Xu, Chong-Feng. Xu, Dunming. Xu, Fuchao Xu, Gege Xu, Gege Xu, Gege Xu, Guowang. Xu, Jiale. Xu, Jie Xu, Libin Xu, Libin Xu, Libin Xu, Libin Xu, Libin Xu, Libin	MP 658 ThP 552 TP 119 WP 681 WP 269 TP 338 WP 041 MP 665 WP 040 MP 194 ThP 755 MOC am 10:10 WP 588 MP 561 ThP 460 ThP 003 ThP 018 ThP 183 ThP 183 ThP 183 ThP 185 ThP 1867 MP 550 MP 561 MP 500 ThOH am 10:10 MP 588
Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Lei. Xiong, Weili Xu, Andy. Xu, Ankai Xu, Chongfeng Xu, Chong-Feng. Xu, Dunming. Xu, Fuchao Xu, Gege Xu, Gege Xu, Gege Xu, Gege Xu, Guowang. Xu, Jiale. Xu, Libin	MP 658 ThP 552 TP 119 WP 681 WP 269 TP 338 WP 041 MP 665 WP 040 MP 194 ThP 755 MOC am 10:10 WP 588 MP 561 ThP 460 ThP 003 ThP 018 ThP 183 ThP 183 ThP 184 ThP 460 ThP 460 ThO 40 10:10 WP 023 TP 060 ThP 183 ThP 184 ThP 460 ThP 183 ThP 184 MP 570 MP 571 MP 571 MP 571 MP 572 MP 573
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Xuan, Yue	ThP 267	Yang, Bo	MP 714	Yang, Zhibo	WP 403
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Yoon, Ah Young	ThP 466 ThP 467 TP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 MP 540 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008
Yoon, Ah Young	ThP 466 ThP 467 TP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 TP 145
Yoon, Ah Young	ThP 466 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 203 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219
Yoon, Ah Young	ThP 466 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 203 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219 MP 073
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Yoon, Ah Young	ThP 466 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219 MP 073 ThOA am 09:10
Yoon, Ah Young	ThP 466ThP 467ThP 467ThP 424ThP 771WP 113ThP 350ThP 249ThP 249ThP 540MP 662ThP 495ThP 203WP 766WP 233MP 408MP 632ThP 008ThP 145ThP 219MP 073ThO am 09:10
Yoon, Ah Young	ThP 466 ThP 467 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219 MP 073 ThOA am 09:10 ThP 288
Yoon, Ah Young	ThP 466 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE an 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219 MP 073 ThOA am 09:10 ThP 054 ThP 281 ThP 288
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Yoon, Ah Young	ThP 466 ThP 467 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 ThP 108 TP 149 ThO 30 ThP 254 ThP 281 ThP 281 ThP 281 ThP 281 ThP 397 ThP 397 TP 524 TP 543 TP 558 TP 563
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Yoon, Ah Young	ThP 466 ThP 467 ThP 424 ThP 771 WP 113 ThP 350 ThP 249 ThOB pm 02:30 MOE am 09:10 ThP 540 MP 062 ThP 495 ThP 203 WP 766 WP 233 MP 408 MP 228 MP 632 ThP 008 TP 145 TP 219 MP 073 ThOA am 09:10 ThP 281 ThP 281 ThP 288 ThP 351 ThP 397 TP 524 TP 543 TP 558 TP 558 TP 563 WP 008 ThP 148
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Zolg, Daniel	MP 383
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Zongwei, Cai	
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Zuk, Joshua	TP 564
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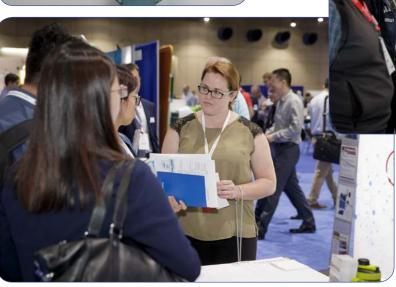
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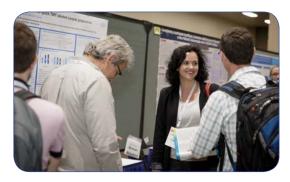
O = Oral, P = Poster

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SHORT COURSES MAY 30 - 31

