65th ASMS Conference on Mass Spectrometry and ALLIED TOPICS June 4 - 8, 2017, Indianapolis, Indiana



Welcome to the 65th ASMS Conference on Mass Spectrometry and Allied Topics. Conference program activities and exhibit booths are in the Indiana Convention Center. Corporate Member hospitality suites are located in the JW Marriott Hotel.

SPONSORS

ASMS gratefully acknowledges the support of these companies.



THE SCIENCE OF WHAT'S POSSIBLE.™

Welcome Reception



Closing Event



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REGISTRATION is open 10:00 am - 8:00 pm on Sunday and 7:30 am - 5:00 pm Monday - Thursday.

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

4:00 - 4:45 pm, Sunday, Room 107-110, level 1 Plan Your Strategy: What to See and Do at ASMS

TUTORIALS
SUNDAY TUTORIAL SESSION I, 5:00 - 6:30 PM
Hall D, level 1



5:00 - 5:45 pm MALDI: Past and Future

Kermit K. Murray Louisiana State University



5:45 - 6:30 pm Cancer Immunotherapy and Mass Spectrometry

Donald F. Hunt *University of Virginia*

SUNDAY TUTORIAL SESSION II, 5:00 - 6:30 PM Wabash, level 1



5:00 - 5:45 pm Ion Mobility Spectrometry: Analyzing Molecules as They Tumble through Life

Erin S. Baker
Pacific Northwest National Laboratory



5:45 - 6:30 pm CE/MS - Ready for Prime Time?

Norman J. Dovichi University of Notre Dame

PLENARY SESSIONS
SUNDAY PLENARY SESSION, 6:45 - 7:45 PM
Hall D, level 1



Welcome
Richard A. Yost

University of Florida
ASMS Vice President for Programs



Towards a Good Start in Life: Neonatal Screening and Beyond

David S. Millington *Duke University Medical Center*

SUNDAY WELCOME RECEPTION, 7:45 - 9:00 PM
Poster/Exhibit Hall. Conference name badge is required.

Monday Award Lecture, 4:45 - 5:30 PM Hall D. level 1



Award for a Distinguished Contribution in Mass Spectrometry

Catherine E. Costello Boston University

TUESDAY AWARD LECTURE, 4:45 - 5:30 PM Hall D, level 1



Ryan JulianUniversity of California, Riverside

THURSDAY PLENARY SESSION, 4:45 - 5:30 PM Hall D, level 1



Saving the Great Coral Reefs Kristen Marhaver Research Station Carmabi

THURSDAY CLOSING EVENT AT THE INDIANA STATE MUSEUM, 6:30-9:00 PM, \$30/PERSON

Tickets must be purchased in advance by Monday 12 noon.



GENERAL INFORMATION



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

Level 1

Session A (MOA, TOA, WOA, ThOA	\)Hall D
Session B (MOB, TOB, WOB, ThOE	3) 500 Ballroom
Level 2	
Session C (MOC, TOC, WOC, ThO	C)Sagamore 1-3

Session E (MOE, TOE, WOE, THOE).......Sagamore 4
Session E (MOE, TOE, WOE, ThOE)......Sagamore 5-7
Level 1

Level 1

Session F (MOF, TOF, WOF, ThOF).......Wabash Session G (MOG, TOG, WOG, ThOG).....Room 101-106 Session H (MOH, TOH, WOH, ThOH)......Room 107-110

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 117, level 1. 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 - Wednesday7:30 am - 8:00 pm Thursday7:30 am - 2:30 pm

Poster Set-UP is 7:30 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.

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.

10:30 am - 1:00 pmOdd-numbered posters 12:00 - 2:30 pmEven-numbered posters

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 not be removed before 7:30 pm on Monday, Tuesday and Wednesday. Thursday posters should be removed at 2:30 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:

 WORKSHOPS are 5:45 - 7:00 pm on Monday, Tuesday, and Wednesday. Light refreshments are provided in the pre-function areas on level 2 and level 3.

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 three months after the conference. ASMS does not retain rights to material included in webcasts.

CORPORATE HOSPITALITY SUITES may be open 8:00 – 10:30 pm, Monday through Wednesday. Suites are located in the **JW Marriott Hotel**.

CAREER CENTER is located in the Poster/Exhibit Hall. 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 rooms must be reserved one day in advance.

Sunday	7:45 - 9:00 pn	n
Monday - Wednesday	7:30 am - 5:00 pn	n
Thursday	7:30 am - 2:30 pn	n

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.

SINGLE USE/FAMILY RESTROOMS are available on each level.

MOTHER'S ROOM is Room 208, level 2 (for mothers-only).

GENERAL INFORMATION



TWO IMPORTANT OPPORTUNITIES IN THE POSTER/EXHIBIT HALL

- INFORMATICS HUB
 Meet up with experts to discuss your infomatics questions.
- FUNDING AGENCY "OFFICE HOURS"
 Consult with program officers and representatives from the major U.S. funding agencies.

VISIT THE JASMS BOOTH NUMBER 111

- 1. Meet the Editor
- 2. Learn about submitting your ASMS presentation for publication

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 for child transport are prohibited in the Poster/Exhibit Hall and 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.





Hotel	Telephone
JW Marriott	(317) 860-5800
Marriott Downtown	(317) 822-3500
Westin	(317) 262-8100
Hyatt Regency	(317) 632-1234
Omni Severin	(317) 634-6664
Crowne Plaza	(317) 631-2221

Hotel	Telephone
Hampton Inn & Suites	(317) 856-1000
Courtyard by Marriott	(317) 822-9029
Fairfield Inn & Suites (downtown)	(317) 636-7678
Springhill Inn (downtown)	(317) 972-7293
Hilton Garden Inn (downtown)	(317) 955-9700
Homewood Suites (downtown)	(317) 636-7992



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to these members who were elected to the ASMS Board

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Eric Dodds Metal Ion Coordination

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Cheng Lin

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Laixin Wang Nucleic Acids

Pharmaceuticals Matthew Schenauer

John Valliere-Douglass

Photoionization MS **Eleanor Riches**

Ralf Zimmerman

Polymeric Materials Christina Mastromatteo

Stephen Rumbelow

Fabio Garofolo Regulated Bioanalysis

Jian Wang

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Young Mass Violet Lee Spectrometrists Doug Phanstiel

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Melinda McFarland Sanibel

Conference

Fanyu Meng Victor Ryzhov

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AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS SPECTROMETRY 2017 RECIPIENT: CATHERINE E. COSTELLO

Award Lecture: 4:45 pm, Monday, Hall D, Level 1



Dr. Catherine E. Costello is the recipient of the 2017 Award for a Distinguished Contribution in Mass Spectrometry for her pioneering contributions to the development of tandem mass spectrometry of glycans and glycoconjugates.

Glycans differ from proteins in that their biosynthesis derives from a series of enzymatic reactions in the endoplasmic reticulum and Golgi apparatus and not from a template-driven process. Glycans, depending on class, may be branched, meaning that their structural determination requires determination of linkage positions and stereochemistry. The function of a glycan depends on the target to which it binds. A difference in a single monosaccharide linkage in a glycan alters the partners to which a glycan or glycoconjugate binds. For glycoproteins, the large number of proteoforms reflect glycan heterogeneity at each glycosylation site. Thus, the population of glycoprotein proteoforms present at any given place

or time differ in their capacities to bind to partners that contain carbohydrate binding domains. The complexity of glycan and glycoconjugate structures presents a severe analytical challenge to the field of glycomics.

Prof. Costello's research has revolutionized glycomics by enabling comprehensive structural characterization of free glycans and glycoconjugates in a sensitive and high throughput fashion. In the 1980s she was among the first to recognize the potential of combining emerging soft ionization techniques with tandem mass spectrometry for characterization of glycans. Today, her 1988 publication defining the dissociation nomenclature for glycans remains highly cited. Prof. Costello delineated the strategy of producing the greatest degree of structural detail on glycans in a single tandem mass spectrometry step. She recognized that while collisional dissociation provides useful information, its utility is limited by low abundances of key cross-ring cleavage product ions. She developed activated electron dissociation methods for glycans and glycoconjugates that are inherently more effective for producing cross-ring cleavages. This has included studies of dissociation mechanisms and influences of metal cationization. Prof. Costello and her co-workers also pioneered Fourier Transform mass spectrometry of glycans and glycoconjugates with the application of electron based activation/dissociation methods and demonstrated these methods on a time scale compatible with on-line LC-tandem MS. Prof. Costello was the first to demonstrate top-down tandem MS analysis of intact glycoproteins. This is significant because most cell surface and secreted proteins are glycosylated and progress in biomedicine depends on the ability to characterize glycosylated proteoforms.

Prof. Costello's research activities define the present state of the art in glycan and glycoconjugate tandem mass spectrometry. These achievements address the needs in biomedicine for high throughput sequencing of glycans and glycoconjugates and for top-down analysis of intact glycoproteins.

Dr. Catherine E. Costello is a William Fairfield Warren Distinguished Professor, Department of Biochemistry, Cell Biology & Genomics, Department of Physiology & Biophysics, and Department of Chemistry, Boston University, Boston, MA.



RON A. HITES AWARD OUTSTANDING RESEARCH PUBLICATION IN JASMS Award Presentation: ASMS Meeting, 4:45 pm Wednesday, Sagamore 5-7, level 2

The Ron Hites Award recognizes an outstanding publication of original research, based on a paper's innovative aspects, technical and presentation quality, likely stimulation of future research and impact on future 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 2017 Award recognizes Thomas Rizzo, École Polytechnique Fédérale de Lausanne and co-authors for their paper Infrared Spectroscopy of Mobility-Selected H+-Gly-Pro-Gly-Gly (GPGG); Antoine Masson¹, Michael Z. Kamrath¹, Marta A. S. Perez¹, Matthew S. Glover², U. Röthlisberger¹, David E. Clemmer², Thomas R. Rizzo¹; ¹École Polytechnique Fédérale de Lausanne, ²Indiana University; *JASMS* Vol. 26, Sept 2015, pp. 1444-1454



Antoine Masson



Michael Kamrath



Marta Perez



Matthew Glover



Ursula Rothlisberger



David Clemmer



Thomas Rizzo



BIEMANN MEDAL 2017 Recipient: Ryan Julian Award Lecture: 4:45 pm Tuesday, Hall D, Level 1



Dr. Ryan Julian is awarded the 2017 Biemann Medal for contributions related to his work developing and exploiting photo-initiated gas phase radical ion chemistry to probe peptide and protein structure. Several applications that rely on this chemistry have been developed by Ryan's lab including methods for (1) examining 3D protein structure in the gas phase, (2) site specific identification of Ser or Thr phosphorylation, (3) identification of Cys residues and disulfide pairs, (4) identification of peptide epimers, (5) oligosaccharide characterization, and (5) monitoring energy transfer with UV action spectra.

Prof. Julian has developed bond selective chemistry for initiating controllable radical directed dissociation (RDD). This is accomplished by photoexcitation with ultraviolet photons, leading to homolytic dissociation of specific bonds and the generation of a radical species. For example, photodissociation of carbon-iodine bonds with 266 nm photons occurs with high yield due to excitation of a dissociative excited state. If the carbon is covalently attached to a protein, then a radical is generated at that atom, and iodine radical is lost. The Julian lab has demonstrated that this chemistry can be used to create radicals in various types

of biomolecules via dissociation of carbon-iodine, carbon-sulfur, and sulfur-sulfur bonds associated with numerous chromophores. Importantly, any of these bonds can be photodissociated regardless of molecular size, charge state, charge polarity, or sequence. The specificity inherent with this method allows for precise placement of an active radical in a controllable location, which can subsequently initiate fragmentation of the molecule via radical directed dissociation.

Dr. Julian is a professor in the Department of Chemistry at the University of California, Riverside.

2017 RESEARCH AWARDS Award Presentation: 4:45 pm Tuesday, Hall D, Level 1

The Research Awards are fully funded by Thermo Fisher Scientific and Waters Corporation in the amount of \$35,000 each.

Sponsored by
THERMO FISHER SCIENTIFIC



Peter NemesThe George Washington University

Sponsored by
Waters Corporation



Abraham Badu-Tawiah The Ohio State University



2017 POSTDOCTORAL CAREER DEVELOPMENT AWARDS Award Presentation: ASMS Meeting, 4:45 pm Wednesday, Sagamore 5-7, Level 2

Five awards in the amount of \$10,000 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.



Bushra Amin University of Pittsburgh



Andrea Carra
University of
Minnesota



Romel P. Dator University of Minnesota



Charles M. Nichols Vanderbilt University



Wen-Jing Zhang
Wayne State
University

2017 STUDENT AWARDS

AWARD PRESENTATION: ASMS MEETING, 4:45 PM WEDNESDAY, SAGAMORE 5-7, LEVEL 2

ASMS supports up to ten 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. The deadline for submission is January 15.

GRADUATE STUDENT AWARDS

Melissa Budelier, Washington University

Bifan Chen, University of Wisconsin-Madison

Bingming Chen, University of Wisconsin-Madison

James Dodds, Vanderbilt University

Paul Hutchins, University of Wisconsin-Madison

Rosemary Onjiko, George Washington University

Elizabeth Peuchen, University of Notre Dame

Lindsay Pino, University of Washington

Matthew Waas, Medical College of Wisconsin

Emily Werth, University of North Carolina

UNDERGRADUATE STUDENT AWARDS

Giovanni Calderisi, University of Innsbruck

Jack Clemmensen, Saint Mary's College of California

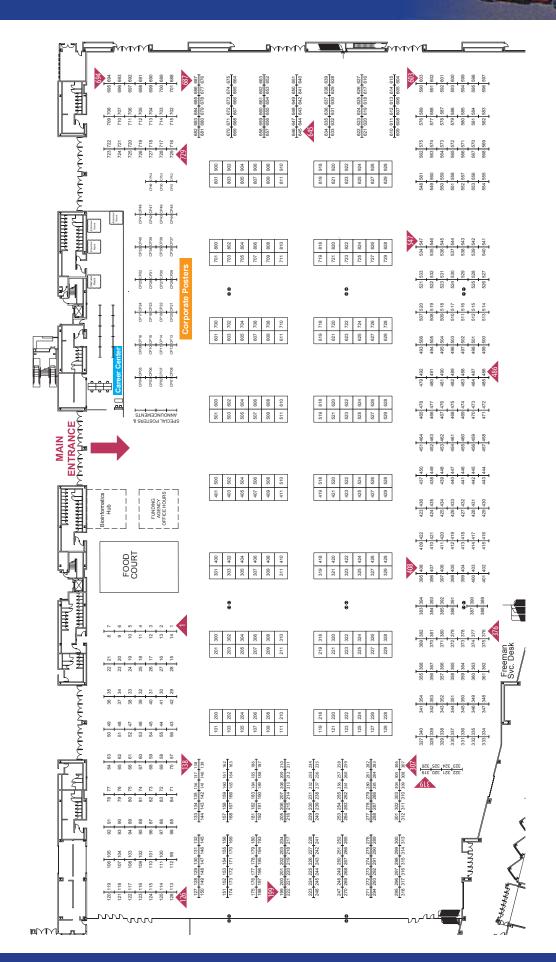
Jason Cochran, University of Florida

Mirna Giron, Kean University

Christopher Gongar, University of Florida

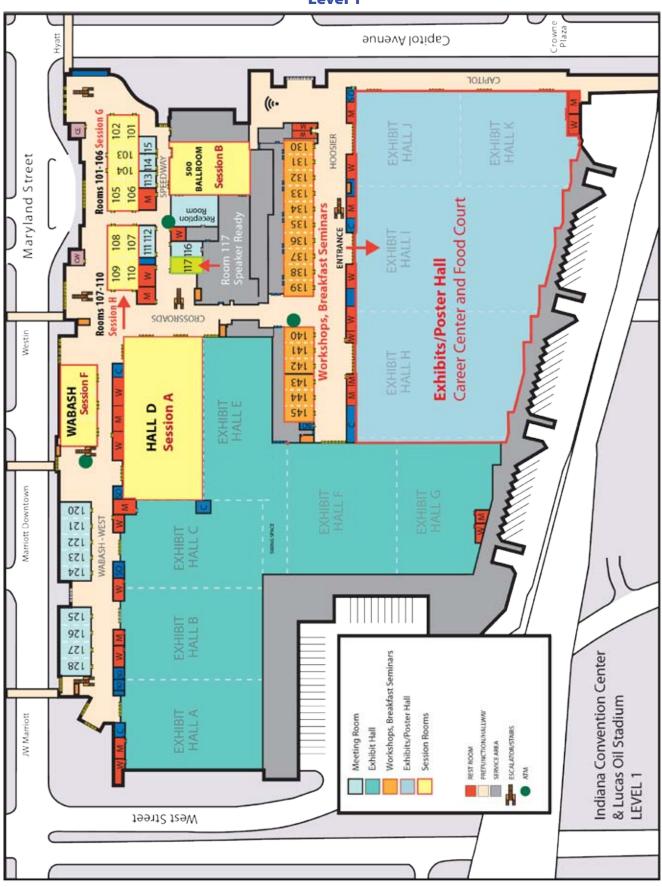
Shilpa Kolachina, University of Illinois at Chicago

John Lin, University of Texas at Austin



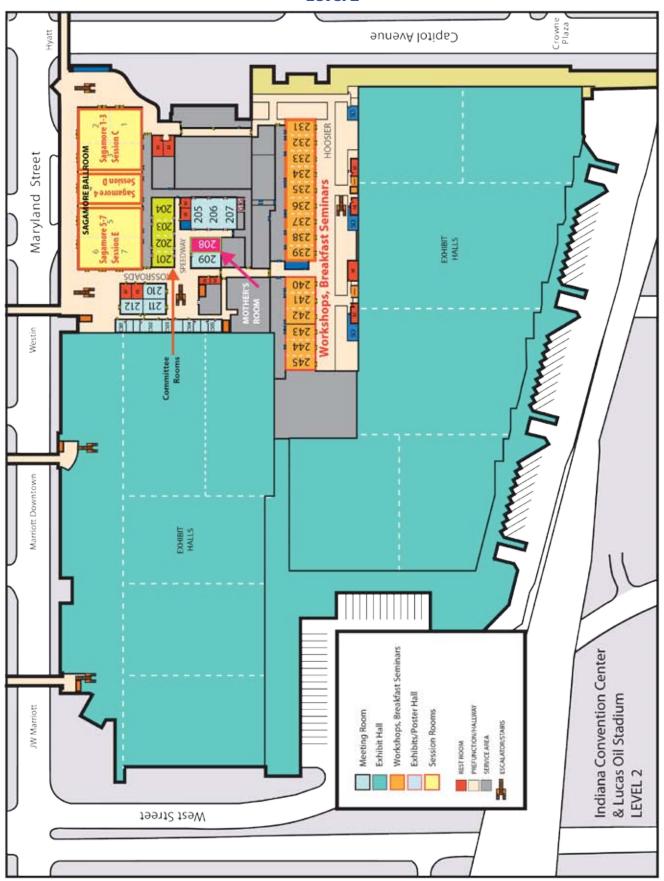


Level 1

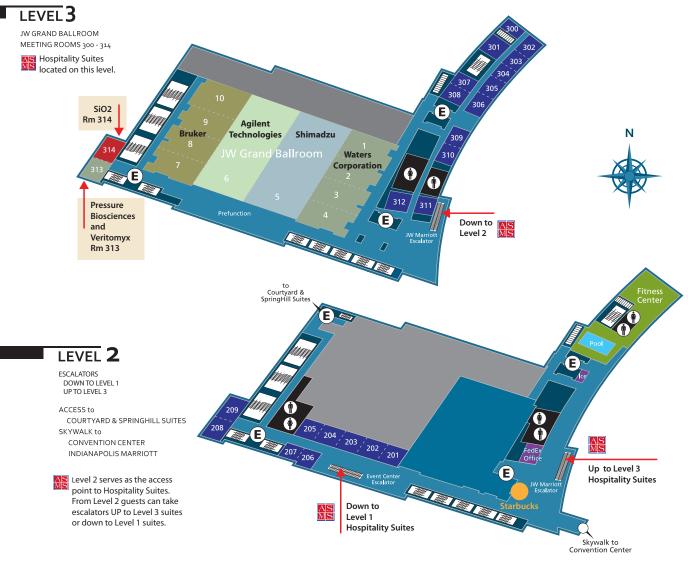


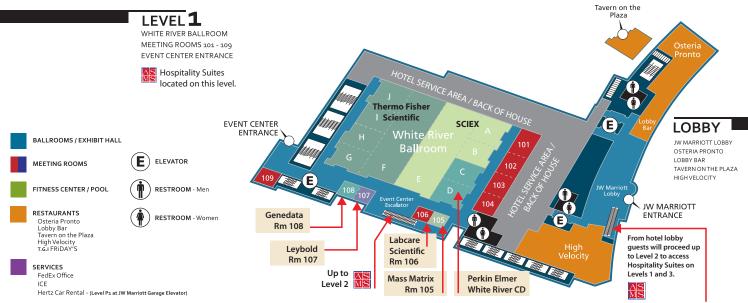


Level 2









CORPORATE MEMBER HIGHLIGHTS



HOSPITALITY SUITES 2017 - BACK TO BASICS

ASMS Corporate Member Hospitality Suites return to their roots in Indianapolis. When the hospitality suite concept was first introduced at the conference, the intention was to provide a relaxed atmosphere where attendees could interact with industry. To provide a setting for meaningful conversations regarding the latest technology in products and services, and attendees could network and enjoy refreshments.

In Indianapolis, hospitality suites will embrace the back to basics atmosphere which will allow attendees to learn more about Corporate Member products and services while enjoying fun, food, 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 5 in the JW Marriott Hotel. All press are invited to attend these events.

8:00 - 9:00 am Shimadzu Scientific Instruments Grand Ballroom 5 9:30 - 10:30 am **Bruker Daltonics** Grand Ballroom 7-9 11:00 am - 12:00 pm **SCIEX** White River EAB 1:30 - 2:30 pm Agilent Technologies Grand Ballroom 6 3:00 - 4:00 pm Thermo Fisher Scientific White River F-J 4:30 - 5:30 pm Waters Corporation Grand Ballroom 1-4

BREAKFAST SEMINARS

Breakfast seminars are hosted by corporate members at either the Convention Center or the JW Marriott Hotel (inside hospitality suites). Pre-registration 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	Start times vary, see below.
(C)	Advanced Chemistry Development	Room 140, 6:45 am
LS	LECO Corporation	Room 139, 6:45 am
Ĭ	Matrix Science	Room 137-138, 7:00 am
<u> </u>	Perkin Elmer	Room 130, 7:00 am
ĕ	SCIEX (2)	Rooms 143-144 and 145, 7:00 am
<u>~</u>	Shimadzu Scientific Instruments	Room 135-136, 7:00 am
	Waters Corporation	Room 133-134, 7:00 am
\{\{\alpha\}\}	JW MARRIOTT HOTEL	Start times vary, see below.
MONDAY BREAKFASTS	Agilent Technologies	Grand Ballroom 6, 7:00 am
<u></u>	Bruker Daltonics	Grand Ballroom 10, 7:00 am
2	Thermo Fisher Scientific (2)	White River F and GH, 7:00 am
	Waters Corporation	Grand Ballroom 1-4, 7:00 am
	CONVENTION CENTER	Start times vary, see below.
	Biognosys	Room 130, 7:00 am
	LECO Corporation	Room 139, 6:45 am
w	Matrix Science	Room 137-138, 7:00 am
Ė	New Objective	Room 239, 6;45 am
TUESDAY BREAKFASTS	NIST Mass Spectrometry Data Center John Wiley and Sons Publishers	Room 141-142, 7:00 am
Ш	Prosolia	Room 240, 7:00 am
₩ ₩	SCIEX (2)	Rooms 143-144 and 145, 7:00 am
>	Shimadzu Scientific Instruments	Room 135-136, 7:00 am
A	SYFT	Room 245, 7:00 am
S	Waters Corporation	Room 133-134, 7:00 am
5	JW MARRIOTT HOTEL	Start times vary, see below.
	Agilent Technologies	Grand Ballroom 6, 7:00 am
	Bruker Daltonics	Grand Ballroom 10, 7:00 am
	Thermo Fisher Scientific (2)	White River F and GH, 7:00 am
	Waters Corporation	Grand Ballroom 1-4, 7:00 am

	CONVENTION CENTER	Start times vary, see below.
	LECO Corporation	Room 139, 6:45 am
۸۲ TS	New Objective	Room 130, 6:45 am
.S\ D/	SCIEX (3)	Rms 140, 143-144, and 145; 7:00 am
ES F/	Shimadzu Scientific Instruments	Room 135-136, 7:00 am
WEDNESDA BREAKFAST	JW MARRIOTT HOTEL	Start times vary, see below.
	Agilent Technologies	Grand Ballroom 6, 7:00 am
≥ H	Bruker Daltonics	Grand Ballroom 10, 7:00 am
	Thermo Fisher Scientific	White River F and GH, 7:00 am
	Waters Corporation	Grand Ballroom 1-4, 7:00 am
S	CONVENTION CENTER	Start times vary, see below.
۸Y ST:	SCIEX (2)	Rooms 143-144 and 145, 7:00 am
THURSDAY BREAKFASTS	Shimadzu Scientific Instruments	Room 135-136, 7:00 am
RS KF	Thermo Fisher Scientific	Room 141-142, 7:00 am
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8		



	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at JW Marriott	Breakfast Seminar
908 Devices	200			
AcroMass Technologies	729	Corporate Poster		
Advanced Chemistry Development (ACD/Labs)	711	Corporate Poster		Conv Ctr Rm 140: Mon 6/5
Advanced Chromotography Technologies, Ltd	101			
Advanced Energy	400	Corporate Poster		
Advion Inc.	506			
Agilent Technologies	600	Corporate Poster	Grand Ballroom 6	JW Marriott Grand 6: Mon-Wed (6/5-6/7)
American Chromatography Supplies	405			
Analytical Sales and Services, Inc.	605	Corporate Poster		
Anest Iwata	708			
Antec	519	Corporate Poster		
Apricot Designs, Inc.	303			
Ardara Technologies LP	324			
ASTA	421	Corporate Poster		
Avanti Polar Lipids, Inc.	928			
Baran Bioscience, LLC		Corporate Poster		
BioChromato, Inc.	821			
BIOCRATES Life Sciences AG	904			
Biognosys	507			Conv Ctr Rm 130: Tue 6/6
Bioinformatics Solutions Inc.	508	Corporate Poster		
Biopeptek, Inc	622			
Biotage	528			
Bonna-Agela Technologies, Inc.	227			
Bruker Daltonics	518		Grand Ballroom 7-10	JW Marriott Grand 10: Mon-Wed (6/5-6/7)
C&EN		Publisher Tabletop		
Cambridge Isotope Labs	618			
Cayman Chemical Company	803			
CDS Analytical	722			
CEM Corporation	619			
Cerno Bioscience	628			
Chemyx, Inc.	806			
CMP Scientific, Inc.	828			
Compare Networks		Publisher Tabletop		
CovalX	626			
CSS Analytical Co. Inc.	420			
CTC Analytics AG	607			
Detector Technology, Inc.	219			
Digital Proteomics	704			
Dikma Technologies, Inc	228			
Drummond Scientific	720			

	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at JW Marriott	Breakfast Seminar
EBARA Technologies	702			
Edwards Vacuum	707			
El-Mul Technologies	721			
e-MSion, Inc.	723			
Entech Instruments	918	Corporate Poster		
ESI Source Solutions	429			
ETP Electron Multipliers/Ion Detect	424	Corporate Poster		
Excellims Corporation	404			
Extrel	719			
Fasmatech	726			
FLIR Systems, Inc.	709			
Genedata	510	Corporate Poster	Room 108	
Genetic Engineering & Biotechnology News		Publisher Tabletop		
Genovis	706			
GenTech Scientific, Inc.	428			
GERSTEL, Inc.	524	Corporate Poster		
GL Sciences Inc.	401			
Grenova	724			
Hamamatsu Corporation	725			
Hamilton Company	810	Corporate Poster		
Harris Corp	418			
HILICON		Corporate Poster		
Horizon Technology, Inc.	727			
HTX Technologies, LLC	426			
IDEX Health & Science	411	Corporate Poster		
IMCS	201	Corporate Poster		
Imtakt USA	610			
InstruTech	224			
INTAVIS Bioanalytical Instruments AG	308			
Integrated Proteomics Applications	226			
International Ceramic Engineering	323			
International Equipment Trading Ltd.	504			
International Labmate		Publisher Tabletop		
Intertek Pharmaceutical Services	629			
ionBench	419			
Ionoptika Ltd	322			
IonSense, Inc.	718	Corporate Poster		
ION-TOF GmbH	425			
IsoSciences	203			
JASMS	111			
Jaytee Biosciences Ltd	302			
JEOL USA, Inc.	801			
Jordi Labs	423	Corporate Poster		
Kashiyama USA	804			

	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at JW Marriott	Breakfast Seminar
Knauer Wissenschaftliche Gerate GmbH	620			
Labcare Scientific International	205		Room 106	
Labcyte		Corporate Poster		
LECO Corporation	603	Corporate Poster		Conv Ctr Rm 139: Mon-Wed 6/5-6/7
Leybold USA Inc	525		Room 107	
Linden CMS GmbH	407			
MasCom Technologies	326			
MassMatrix		Corporate Poster	Room 105	
MassTech Inc.	327			
Matrix Science	328			Conv Ctr Rm 137-138: Mon 6/5, Tue 6/6
McKinley Scientific	606			
MeCour Temperature Control	229			
Mestrelab Research, S.L.	505			
MilliporeSigma	805			
Moeller Medical GmbH	521			
MPF Products Inc	210			
MRM Proteomics Inc	827			
MS Ekspert	320			
MS Noise	529			
MS Vision (Spectrometry Vision B.V.)	406			
mSPEC group	223			
MStm	705			
Nacalai USA, Inc.	829	Corporate Poster		
nanoLiter, LLC	209	Corporate Poster		
Navac LLC	808			
Nest Group, The		Corporate Poster		
New England Biolabs	908			
New England Peptide, Inc.	422			
New Objective, Inc.	604	Corporate Poster		Conv Ctr Rm 239: Tue 6/6, Conv Ctr Rm 130: Wed 6/7
NewOmics, Inc	809			
NIST	700			Conv Ctr Rm 141-142: Tue 6/6
Novilytic	609			
Omicron Biochemicals	509	Corporate Poster		
Omics, LLC	306	Corporate Poster		
Omni International	811			
Optimize Technologies, Inc.	403	Corporate Poster		
Owlstone Medical Ltd.	325			
Pace Analytical	119			
Parker Balston/Hannifin	409			
PEAK Scientific	701	Corporate Poster		

	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at JW Marriott	Breakfast Seminar
Perfinity Biosciences	523			
PerkinElmer	319		White River CD	Conv Ctr Rm 130: Mon 6/5
Pfeiffer Vacuum	301	Corporate Poster		
PharmaFluidics	225	Corporate Poster		
Phenomenex	627			
Phoenix S&T, Inc.	520			
PHOTONIS	300	Corporate Poster		
Physical Electronics	910	Corporate Poster		
Phytronix Technologies, Inc.	211			
Polymer Factory Sweden AB	310	Corporate Poster		
Postnova	608	Corporate Poster		
Presco Incorporated	202			
Pressure BioSciences, Inc.	329	Corporate Poster	Room 313	
Prolab Instruments GmbH	825			
Promega Corporation	800			
Prosolia, Inc.	611	Corporate Poster		Conv Ctr Rm 240: Tue 6/6
Protea Biosciences, Inc.	305			
Protein Metrics Inc.	410			
Proteome Software Inc.	218			
ProteoWorker	307	Corporate Poster		
Proton Onsite	621			
Prozyme, Inc.	427			
PURSPEC Technologies, Inc.	623			
Resolution Labs LLC	526			
Restek Corporation	900			
ReSyn Biosciences	408	Corporate Poster		
Samin Science Co., Ltd	129			
Science/AAAS		Publisher Tabletop		
Scientific Instrument Services	503	Corporate Poster		
Scientific Systems, Inc.	204			
SCIEX	500		White River EAB	Conv Ctr Rm 140: Wed 6/7 Conv Ctr Rm 143-144: Mon-Thur 6/5-6/8 Conv Ctr Rm 145: Mon-Thur 6/5-6/8
SepSolve Analytical	220			
Shimadzu Scientific Instruments, Inc.	511	Corporate Poster	Grand Ballroom 5	Conv Ctr Rm 135-136: Mon-Thur 6/5-6/8
Sierra Analytics	802	Corporate Poster		
Silantes GmbH	304			
SiO2 Medical Products	321		Room 314	
Sound Analytics	625			
Spark Holland	820			
SpectralWorks Limited	522	Corporate Poster		
Spectroscopy	822			
Spectroswiss	710			

Company	Exhibit Booth	Corporate Poster or Publisher Tabletop	Hospitality Suite at JW Marriott	Breakfast Seminar
Spellman High Voltage	818			
SPEX SamplePrep	207			
SunChrom GmbH	819			
Superior Technical Ceramics	221			
SYFT Technologies	402	Corporate Poster		Conv Ctr Rm 245: Tue, 6/6
The Analytical Scientist		Publisher Tabletop		
Thermo Fisher Scientific	601		White River F-J	Conv Ctr Rm 141-142: Thu 6/8 JW Marriott White River F & GH: Mon-Wed 6/5-6/7
Tofwerk AG	624			
Tosoh Bioscience	728			
Trajan Scientific and Medical	703	Corporate Poster		
Veritomyx	318	Corporate Poster	Room 313	
VICI Valco Instruments	824			
VRS	602			
VUV Analytics	311			
Waters Corporation	501	Corporate Poster	Grand Ballroom 1-4	Conv Ctr Rm 133-134: Mon-Tues 6/5-6/6 JW Marriott Grand 1-4: Mon-Wed 6/5-6/7
Wiley		Publisher Tabletop		Conv Ctr Rm 141-142: Tue 6/6
XPC Corporation	502			
Zef Scientific Inc.	309			
Zhejiang Haochuang Biotech Co., Ltd	826			







VICE PRESIDENT FOR PROGRAMS



Richard A. Yost University of Florida Vice President for Programs

STUDENT ASSISTANTS

Graduate students and postdoctoral fellows 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

	SUNDAY	
9:00 AM - 4:30 PM	SHORT COURSES	
10:00 AM - 8:00 PM	REGISTRATION	
4:00 - 4:45 рм	ATTENTION: FIRST-TIME GRADUATE STUDENTS AND Plan your Strategy: What to See and Do at ASI	
5:00 - 6:30 рм	Tutorial Lectures, Hall D level 1	
	5:00 - 5:45 pm MALDI: Past and Future Kermit K. Murray, Louisiana State University	5:45 - 6:30 pm Cancer Immunotherapy and Mass Spectrometry Donald F. Hunt, <i>University of Virginia</i>
		90



TUTORIAL SESSION II, Wabash level 1 5:00 - 5:45 pm Ion Mobility Spectromety: Analyzing Molecules as They Tumble through Life Erin S. Baker, Pacific Northwest National Lab



5:45 - 6:30 pm **CE/MS -Ready for Prime Time?**

Norman J. Dovichi, University of Notre Dame



6:45 - 7:45 РМ **CONFERENCE OPENING, Hall D level 1** Richard A. Yost, University of Florida ASMS Vice President for Programs



Towards a Good Start in Life: Neonatal Screening and Beyond

David S. Millington Duke University Medical Center

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



MONDAY

	MONDAY		
From 6:45 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and JW Marriott Hotel (schedule on page 15)		
7:30 ам - 5:00 рм	REGISTRATION		
8:30 - 10:30 AM	ORAL SESSIONS MOA am: Celebration of Klaus Biemann's Science, Hall D level 1 MOB am: Applications of Stable Isotope Labeling in MS, 500 Ballroom level 1 MOC am: Metabolomics: New Technologies and Applications, Sagamore 1-3 level 2 MOD am: Innovations and Applications in Forensics, Sagamore 4 level 2 MOE am: Plant "omics", Sagamore 5-7 level 2 MOF am: Ion Mobility: New Developments and Applications, Wabash level 1 MOG am: Instrumentation: New Developments in Ion Detection, Room 101-106 level 1 MOH am: Synthetic Polymers, Room 107-110 level 1		
10:30 ам - 2:30 рм	POSTER SESSION AND EXHIBITS, Monday Posters, Poster/Exhibit 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: MS in Clinical Analysis, <i>Hall D level 1</i> MOB pm: Analytical Challenges of Microdosing and Microsampling Studies, <i>500 Ballroom level 1</i> MOC pm: Metabolomics: Untargeted Profiling, <i>Sagamore 1-3 level 2</i> MOD pm: Environmental: Emerging Contaminants, <i>Sagamore 4 level 2</i> MOE pm: Hydrogen-Deuterium Exchange MS, <i>Sagamore 5-7 level 2</i> MOF pm: Ion Mobility: Small Molecules, Pharmaceuticals, and DMPK, <i>Wabash level 1</i> MOG pm: Instrumentation: Ambient Ionization: Instrumentation & Applications, <i>Rm 101-106 level 1</i> MOH pm: Fundamentals: Ion-Ion and Ion-Neutral Interactions, <i>Room 107-110 level 1</i>		
4:45 - 5:30 рм	Award Lecture, Hall D level 1 Award for a Distinguished Contribution in Mass Spectrometry		
	Catherine E. Costello Boston University		
5:45 - 7:00 рм	Workshops There are light refreshments in the common areas.		
	 Improving Scientific Writing Skills, Room 130 level 1 Metal Ion Coordination in Gas-Phase Bioanalysis: Reaping Practical Benefits (Metal Ion Coordination Chemistry Interest Group), Room 131-132 level 1 Open Source Software Packages: Using and Making your Contributions (Bioinformatics MS Interest Group), Room 133-134 level 1 Clinical Diagnostics: Translating New Mass 8. Spectrometry Approaches (Clinical Chemistry Interest Group), Room 135-136 level 1 FTMS: Successes and Challenges of Achieving Routinely High Mass Accuracy (FTMS Interest Group), Room 137-138 level 1 Exposomics Update: Success, Lessons and Future Goals (Exposomics Interest Group), Room 139 level 1 Antibody-Drug Conjugate Research and Development: The Role of Multifaceted Mass Spectrometry (Pharmaceuticals Interest Group), Room 141-142 level 1 Forensics and Homeland Security Mass Spectrometry Research: A Critical Discussion between Academicians and Forensic Science Practitioners (Forensics & Homeland Security Interest Group), Room 143-144 level 1 Art and Cultural Heritage: Mass Spec Applications, Room 145 level 1 Mass Spectrometry Interactive Virtual Environment (MassIVE): Management of Big Data, Room 231-234 level 2 Ion Trap Instrumentation for Harsh Environment and Point-of-Care Applications (Ion Trap MS Interest Group), Room 235-238 level 2 Photoionization: Applications, Developments, and Discussions (Photoionization MS Interest Group), Room 240-242 level 2 A Career in Mass Spec: Options and Where to start? (Young Mass Spectrometrists Interest Group), Room 240-242 level 2 Top-Down Proteomics, Room 243-245 level 2 		
7:00 - 8:00 рм	DINNER BREAK		
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, JW Marriott Hotel		

PROGRAM OVERVIEW



TUESDAY

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From 6:45 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and JW Marriott Hotel (schedule on page 15)
7:30 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	ORAL SESSIONS TOA am: Informatics: Peptide and Protein Identification, Hall D level 1 TOB am: Quantitative Analysis in Drug Discovery and Development, 500 Ballroom level 1 TOC am: Qualitative and Quantitative Analysis of PTMs, Sagamore 1-3 level 2 TOD am: Exposomics: Targeted, Untargeted and Bioinformatics Methodologies, Sagamore 4 level 2 TOE am: Macromolecular Complexes, Sagamore 5-7 level 2 TOF am: Ion Mobility: Structure, Wabash level 1 TOG am: Instrumentation: Mass Analyzer Innovations, Room 101-106 level 1 TOH am: Fundamentals: Ion Spectroscopy, Room 107-110 level 1
10:30 AM - 2:30 PM	Poster Session and Exhibits, Tuesday Posters, Poster/Exhibit Hall
2:30 - 4:30 рм	ORAL SESSIONS TOA pm: Informatics: Metabolomics, Hall D level 1 TOB pm: MS in the Regulatory Environment, 500 Ballroom level 1 TOC pm: Quantitative Proteomics in Systems Biology, Sagamore 1-3 level 2 TOD pm: Environmental: New Instrumentation and Approaches, Sagamore 4 level 2 TOE pm: Covalent Labeling and Chemical Crosslinking, Sagamore 5-7 level 2 TOF pm: Microorganisms: Identification and Characterization, Wabash level 1 TOG pm: Instrumentation: Innovations in FT-based Mass Analyzers, Room 101-106 level 1 TOH pm: Fundamentals: Ion Activation and Dissociation, Room 107-110 level 1
4:45 - 5:30 рм	Award Lecture, Hall D level 1 Biemann Medal
	Ryan Julian University of California, Riverside
5:45 - 7:00 рм	Workshops There are light refreshments in the common areas.
	 Trans-Proteomic Pipeline: New Advances and Future Developments, Room 130 level 1 Bioinformatic Approaches for Glycomics/ Glycoproteomics, Room 131-132 level 1 Statistics and Bioinformatics using R, Room 133-134 level 1 Environmental Analysis: Modern Sampling Techniques and Data Analysis (Environmental Applications Interest Group), Room 135-136 level 1 Hepatocytes: Current and Future Use in DMPK (DMPK Interest Group), Room 137-138 level 1 The NIH and NSF Review and Funding Process, Room 139 level 1 Proteomic Workflow: Unpublished Collective Practical Knowledge from Insiders (Analytical Lab Managers Interest Group), Room 140 level 1 The Need for Speed: Is your LC or Mass Spectrometer the Top Gun for Improving Throughput? (LCMS & Related Topics Interest Group), Room 141-142 level 1 Tracing Uncertainty in Imaging MS: Benchmarking Reproducibility, Variability, and Performance across Experiments (Imaging MS Interest Group), Room 143-144 level 1 JASMS - Present Status and Future, Room 145 level 1 Biotherapeutics: Hot Topics (Biotherapeutics Interest Group), Room 231-234 level 2 HDX, Covalent Labeling & Cross Linking: State-of-the-Art and Future Directions (HDX Covalent Labeling & Cross Linking Interest Group), Room 235-238 level 2 Polymer Mass Spectrometry: Advances (Polymeric Materials Interest Group), Room 239 level 2 Metabolomics: Integration into the Emerging Arena of Multi-omic Approaches (Metabolomics Interest Group), Room 240-242 level 2 Mass Spectrometry and Ion Mobility: The Role of Temperature (Fundamentals Interest Group), Room 243-245 level 2
7:00 - 8:00 PM	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, JW Marriott Hotel
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PROGRAM OVERVIEW



WEDNESDAY

From 6:45 AM	CORPORATE BREAKFAST SEMINARS, Convention Center and JW Marriott Hotel (schedule on page 15)		
7:30 ам - 5:00 рм	REGISTRATION		
8:30 - 10:30 AM	ORAL SESSIONS WOA am: Informatics: DIA: Innovative Methods and Applications, Hall D level 1 WOB am: Food Safety & Chemistry: Non-targeted Screening, 500 Ballroom level 1 WOC am: Biomarkers: Qualitative Analysis, Sagamore 1-3 level 2 WOD am: Lipidomics: Lipids and Profiling, Sagamore 4 level 2 WOE am: Glycopeptides and Glycoproteins, Sagamore 5-7 level 2 WOF am: Imaging: Instrumentation & Method Development, Wabash level 1 WOG am: Instrumentation: MS in Extreme Environments, Room 101-106 level 1 WOH am: Fundamentals: Photoionization and Photodissociation, Room 107-110 level 1		
10:30 ам - 2:30 рм	Poster Session and Exhibits, Wednesday Posters, Poster/Exhibit Hall		
2:30 - 4:30 рм	 WOA pm: Informatics: Multiomics Integration and Applications, Hall D level 1 WOB pm: Food Safety & Chemistry: Foodomics, Allergens, Bacteria, Foods, 500 Ballroom level 1 WOC pm: Antibodies and Antibody Drug Conjugates, Sagamore 1-3 level 2 WOD pm: Lipidomics: New MS Technologies and Applications, Sagamore 4 level 2 WOE pm: Biomarkers: Quantitative Analysis, Sagamore 5-7 level 2 WOF pm: Imaging: Computational Methods and Analysis, Wabash level 1 WOG pm: Instrumentation: New Developments in Ionization and Sampling, Room 101-106 level 1 WOH pm: Fundamentals: Molecular Modeling and Quantum Mechanical Calculations in Ion Mobility and MS, Room 107-110 level 1 		
4:45 - 5:30 рм	ASMS MEETING, Sagamore 5-7 level 2: Awards, board reports, wine, beer, soft drinks - and more!		
5:45 - 7:00 рм	 WORKSHOPS There are light refreshments in the common areas. 01. Career and Collaboration Opportunities in China, Room 130 level 1 02. High Spatial Resolution 2D and 3D Mass Spectrometry Analysis: New Trends, Room 131-132 level 1 03. Diversity and Outreach, Room 133-134 level 1 04. Galaxy-P in the Cloud: Proteomic Informatics on JetStream, Room 135-136 level 1 05. Food Safety & Authenticity: HRMS Applications (Flavor, Fragrance & Foodstuff Interest Group), Room 137-138 level 1 06. Energy, Petroleum, and Biofuels: Experimental Challenges (Energy Petroleum & Biofuels Interest Group), Room 139 level 1 07. Undergraduate Research in Mass Spectrometry: Making the Most of It (Undergraduate Research in MS Interest Group), Room 140 level 1 08. Quantitative Glycomics and Glycoproteomics, Room 141-142 level 1 09. Mass Spectrometry in GMP Environment: Aspects of System Qualification and Method Validation, Room 143-144 level 1 10. Mass Spectrometry in the Developing World: Supporting Education and Research, Room 145 level 1 11. Lipidomics Data Processing and Analyses: Software Tools (Lipids & Lipodomics Interest Group), Room 231-234 level 2 12. Data Independent Acquisition Strategies for Quantitative Proteomics: The Challenges of Scaling Up to Meet Demand (Data Independent Acquisition Interest Group), Room 235-238 level 2 13. Nucleic Acid-based Therapeutics: Structure Identification and Bioanalysis (Oligonucleotides and Nucleic Acids Interest Group), Room 239 level 2 14. Ion Mobility Spectrometry: Towards Standard Operating Procedures (Ion Mobility MS Interest Group), Room 240-242 level 2 15. Bioanalysis of Biosimilars (Regulated Bioanalysis Interest Group), Room 243-245 level 2 		
7:00 - 8:00 рм	DINNER BREAK		
AFTER 8:00 PM	Corporate Hospitality Suites, JW Marriott Hotel		
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PROGRAM OVERVIEW

THURSDAY

From 6:45 AM	CORPORATE BREAKFAST SEMINARS, Convention Center (schedule on page 15)	
7:30 AM - 5:00 PM	REGISTRATION	
8:30 - 10:30 AM	ORAL SESSIONS ThOA am: Informatics: Innovations, Hall D level 1 ThOB am: MS in the QC Lab, 500 Ballroom level 1 ThOC am: Membrane Protein MS, Sagamore 1-3 level 2 ThOD am: Nucleic Acids and Oligonucleotides, Sagamore 4 level 2 ThOE am: Native MS in Structural Biology, Sagamore 5-7 level 2 ThOF am: Imaging: Pharmaceuticals, Metabolites, and Lipids, Wabash level 1 ThOG am: GC/MS, GC/GC/MS, GC/MS/MS, and GC/HRMS, Room 101-106 level 1 ThOH am: Fundamentals for Everyone, Room 107-110 level 1	
10:30 AM - 2:30 PM	Poster Session and Exhibits, Thursday Posters, Poster/Exhibit Hall	
2:30 - 4:30 рм	ORAL SESSIONS ThOA pm: Informatics: Discovery Proteomics, Hall D level 1 ThOB pm: HRMS for Quantitation in Drug Discovery, Development & Beyond, 500 Ballroom level 1 ThOC pm: Top Down Protein Analysis, Sagamore 1-3 level 2 ThOD pm: Carbohydrates, Sagamore 4 level 2 ThOE pm: Protein-Ligand Interactions, Sagamore 5-7 level 2 ThOF pm: Imaging: Biomedical Applications, Wabash level 1 ThOG pm: Instrumentation: Separations Approaches Coupled to MS, Room 101-106 level 1 ThOH pm: Energy, Petroleum, and Biofuels: Instrumentation & Applications, Room 107-110 level 1	
4:45 - 5:30 рм	PLENARY LECTURE, Hall D level 1 Saving the Great Coral Reefs Kristen Marhaver Research Station Carmabi	
6:30 - 9:00 РМ	CLOSING EVENT AT THE INDIANA STATE MUSEUM Advance purchase ticket required. The museum is located in the park-like area behind the JW Marriott Hotel complex, an easy walk from convention center and downtown hotels.	



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 Elaine Marzluff (Grinnell College) and JC Poutsma (College of William & Mary) Room 107-110 level 1

> 5:00-6:30 pm Sunday **TUTORIAL SESSION I** Richard A. Yost (University of Florida) Hall D level 1



5:00-5:45 pm **MALDI: Past and Future** Kermit K. Murray Louisiana State University



5:45-6:30 pm Cancer Immunotherapy and Mass Spectrometry Donald F. Hunt University of Virginia

5:00-6:30 pm Sunday **TUTORIAL SESSION II** John A. McLean (Vanderbilt University) Wabash level 1



5:00-5:45 pm Ion Mobility Spectrometry: Analyzing Molecules as They Tumble through Life Erin S. Baker Pacific Northwest National Laboratory



5:45-6:30 pm CE/MS - Ready for Prime Time? Norman J. Dovichi University of Notre Dame

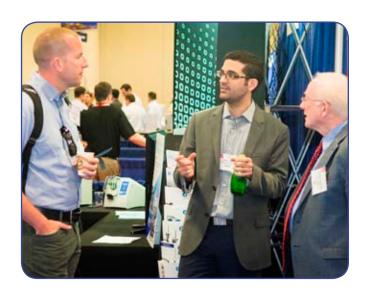
6:45-7:45 pm Sunday **Conference Opening** Richard A. Yost (University of Florida) Hall D level 1

Welcome, Richard A. Yost, University of Florida ASMS Vice President for Programs



7:00-7:45 pm Towards a Good Start in Life: Neonatal Screening and Beyond David S. Millington Duke University Medical Center

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



MONDAY MORNING ORAL SESSIONS

From 6:45 am Monday **CORPORATE BREAKFAST SEMINARS Convention Center and JW Marriott Hotel**

Detailed schedule on page 15. Pre-registration recommended, space is limited

8:30-10:30 am Monday **CELEBRATION OF KLAUS BIEMANN'S SCIENCE Dominic Desiderio (Univ. of Tennessee Health Science)** Hall D level 1

A Son's Perspectives on Klaus Biemann's MOA am 08:30

Life; Hans-Peter Biemann; Sanofi Genzyme,

Cambridge, MA

Who Invented GC/MS? Ronald A. Hites; Indiana MOA am 08:50

University, Bloomington, IN

MOA am 09:10 **Identification of Tumor Specific, Class** I MHC Peptides for Immunotherapy of Cancer: Instrumentation and Methods for Characterization of Intact Proteins; Donald F. Hunt; University of Virginia, Charlottesville, VA A Career of Lipid Biochemistry and Mass MOA am 09:30 Spectrometry: From Fatty Acids to Lipidomics;

Robert C. Murphy; Univ of Colorado Denver, Aurora, CO

MOA am 09:50 **New Approaches for Localization of Proteins** and Interaction Partners in Cells with High Spatial Resolution; Steven A. Carr; Broad

Institute, Cambridge, MA

MOA am 10:10 CSI@MIT: Adventures in the Biemann

Laboratory; Catherine E. Costello; Boston University School of Medicine, Boston, MA

MONDAY MORNING ORAL SESSIONS

MOC am 09:50

MOD am 09:10

8:30-10:30 am Monday APPLICATIONS OF STABLE ISOTOPE LABELING IN MS Teresa Fan (University of Kentucky) 500 Ballroom level 1 MOB am 08:30 Unveiling Metabolic Origins of Cell Surface Glycosylation and Turnover Kinetics of Glycoproteins Using 13C-labeled Saccharides and LC-MS/MS Analysis; Gege Xu1; Maurice Wong1; Qiongyu Li1; Mariana Barboza1; Dayoung Park¹; Zhi Cheng¹; Carlito B. Lebrilla¹; ¹University of California, Davis, Davis, California MOB am 08:50 **Turnover Measurements of Low Abundance** Proteins in Human Plasma and PBMCs by Serial Immunoaffinity and Mass Spectrometry: Vahid Farrokhi¹; Teresa Caiazzo¹; Katherine Wright¹; Dnise O'Hara¹; Hendrik Neubert¹; ¹Pfizer, Inc., Andover, MA MOB am 09:10 Influence of the Gut Microbiota on Histone Modifications in Intestinal Epithelial Cells: Peder

J. Lund¹; Sarah A. Smith²; Johayra Simithy¹; Zuo-Fei Yuan¹; Kevin A. Janssen¹; Gary D. Wu²; Benjamin A. Garcia¹; ¹Penn Epigenetics Institute, Dept. of Biochemistry and Biophysics. Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA; ²Dept. of Medicine, Division of Gastroenterology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA **Metabolic Tracing in Hepatocytes Demonstrates**

MOB am 09:30 the Contribution of acetyl-CoA Derived from **Ethanol Metabolism to Histone Acetylation**; Crystina Kriss¹; Stanley M Stevens Jr²; ¹University of South Florida, Tampa, FL; 2University of South Florida, Tampa, FL

Quantitative in vitro Proteomic Profiling of Colon MOB am 09:50 Cancer Spheroids treated with Combination Chemotherapy in a 3D printed Fluidic Device; Gabriel LaBonia¹; Amanda B. Hummon¹; ¹University of Notre Dame, Notre Dame, IN

Resolution of 13C and Deuterium Isotopes MOB am 10:10 Allows Lipid Fluxomics Analysis By Rate of **Deuterium Incorporation**; Matthew Mitsche¹; Goncalo Vale1; Jeffrey McDonald1; 1University of Texas Southwestern Medical Center, Dallas, TX

8:30-10:30 am Monday **METABOLOMICS: NEW TECHNOLOGIES AND APPLICATIONS** Leah Shriver (University of Akron) Sagamore 1-3 level 2

MOC am 08:30 A Metabo-Redoxome Platform for **Comprehensive Survey of Oxidative Stress** Severity in the Lower Respiratory Tract of Smokers and HIV-infected Subjects; Miriam Sindelar1; Sarah L O'Beirne1; Philip L Leopold1; Michelle R Staudt1; Robert J Kaner¹; Ronald G Crystal¹; Steven S Gross¹; ¹Weill Cornell Medicine, New York, NY

MOC am 08:50 Stable Isotope-Resolved Metabolomic (SIRM) Studies of in vitro, in vivo, and ex vivo Isogenic Human Cancer Models Using Ion-Chromatography MS; Marc O. Warmoes¹; Qiushi Sun¹; Ramon Sun¹; Penghui Lin¹; Andrew N. Lane¹; Richard M. Higashi¹; Teresa W.-M. Fan¹; ¹University of Kentucky, Lexington, KY

MOC am 09:10 Differentiation of Acylcarnitine Isomers Based on LC-MS/MS Mass Spectra and Development of an Accurate Mass Spectral Library; Xinjian Yan1; Yuri Mirokhin1; Ramesh Marupaka1; Yamil Simón-Manso¹; Dmitrii Tchekhovskoi¹; Stephen E Stein¹; ¹NIST, Gaithersburg, MD

MOC am 09:30 Microprobe Single-cell CE-ESI-MS Captures Metabolic Changes in the Developing Frog (Xenopus laevis)Embryo; Rosemary Masu Onjiko1;

Erika P Portero1; Sally A Moody1; Peter Nemes1; ¹George Washington University, Washington, DC Solid Phase Microextraction: A New Tool for in vivo monitoring of Metabolic Changes Occurring During Deep Brain Stimulation; Nathaly Reves Garces1; Ezel Boyacı1; German A. Gomez-Rios1; Barbara Bojko^{1, 2}; Clement Hamani³; Janusz Pawliszyn¹; ¹University of Waterloo, Waterloo, ON, Canada; ²Nicolaus Copernicus University in Torun, Bydgoszcz, Poland; 3University of Toronto, Toronto, ON, Canada MOC am 10:10

FAC-MS: A New Platform Coupling Heterologous Expression and Untargeted Metabolomics for Large-Scale Fungal Natural Product Discovery; Ken Clevenger1; Jinwoo Bok2; Rosa Ye3; Galen P Miley⁴; Maria H Verdan⁴; Thomas Velk²; Cynthia Chen³; KaHoua Yang²; Matthew Robey⁴; Peng Gao⁴; Matthew Lamprecht³; Md Nurul Islam³; Jonathan Palmer⁵; PAUL Thomas⁴; ChengCang Wu³; Nancy Keller²; Neil L Kelleher⁴; ¹Northwestern University, Evanston, IL; 2University of Wisconsin Madison, Madison, WI; 3Intact Genomics, St. Louis, MO; ⁴Northwestern University, Evanston, IL; ⁵US Forest Service, Madison, WI

8:30-10:30 am Monday **INNOVATIONS AND APPLICATIONS IN FORENSICS** Marilyn Tourne (Tuskegee University) Sagamore 4 level 2

MOD am 08:30 Paper Spray Mass Spectrometry for the **Detection of Chemical Warfare Agent Simulants:** Elizabeth S Dhummakupt^{1, 2}; Josiah McKenna³; Theresa Connell⁴; Paul Demond⁴; Dennis B Miller1: Nicholas E Manicke3: J Michael Nilles4: Trevor Glaros¹; ¹US Army ECBC, Aberdeen Proving Ground, MD; 2National Research Council, Washington, DC; 3Indiana University-Purdue University Indianapolis, Indianapolis, IN; 4Excet, Inc., Sprinafield, VA

MOD am 08:50 **Development of a High Sensitivity Method for Direct Characterisation of Forensic Samples**; Efstathios Elia1; Samantha Leach2; I-Chung Lu1; Milan Pophristic³; Sarah Trimpin¹; ¹Wayne State University, Detroit, MI; ²DC Department of Forensic Sciences (DFS), Washington, DC; 3MSTM, LLC., Newark, DE

> **Rapid Absolute Quantification of Abrin** Toxin and Its Isoforms in Complex Matrices by Immuno-extraction and High Resolution Targeted Mass Spectrometry; Eva-Maria Hansbauer¹; Sylvia Worbs²; François Fenaille¹; Hervé Volland3; Stéphanie Simon3; Christophe Junot¹; Brigitte G. Dorner²; François Becher¹; ¹CEA Saclay, DRF, iBiTec-S, Service de Pharmacologie et d'Immunoanalyse, Laboratoire d'Etude du Métabolisme des Médicaments, Gif-sur-Yvette, France; ²Biological Toxins, Centre for Biological Threats and Special Pathogens, Robert Koch Institute, Berlin, Germany; 3CEA Saclay, DRF, iBiTec-S, Service de Pharmacologie et d'Immunoanalyse, Laboratoire d'Etudes et de Recherches en Immunoanalyse,

MOD am 09:30 Identification of Fentanyl and Other Synthetic **Opiates using Ambient Ionization High** Resolution Time-of-Flight Mass Spectrometry; Jamie Foss¹; Amanda Moore²; Sabra Botch-Jones²; Maria Pease³; Frank Kero⁴; ¹PerkinElmer, Shelton, CT; ²Boston University School of Medicine, Boston, MA; 3Maine Health and Environmental Testing Laboratory, Augusta, ME; 4PerkinElmer, Downers Grove, IL

Gif-sur-Yvette. France

MONDAY MORNING ORAL SESSIONS



MOD am 09:50 Development of Solid Phase Microextraction (SPME) Devices for Analysis of Drugs in Biofluids via Direct Analysis in Real Time (DART): Tijana Vasiljevic': German Augusto Gor

(DART); Tijana Vasiljevic¹; German Augusto Gomez-Rios¹; Emanuela Gionfriddo¹; <u>Janusz Pawliszyn</u>¹; ¹*University of Waterloo, Waterloo, ON, Canada*

MOD am 10:10 Isomeric Separation of Cannabinoids by

UPLC-ESI(±)TWIM-MS; Lilian V. Tose¹; Samantha R.C. Silva¹; Michael Murgu²; Boniek Gontijo Vaz³.⁴; Wanderson Romão⁴.⁵; ¹Federal University of Espírito Santo, Vitória, Brazil; ²Waters Corporation, São Paulo, Brazil; ³Federal University of Goiás, Goiânia, GO; ⁴National Institute of Forensic Science and Technology (INCT), Vila Velha, Brazil; ⁵IFES/UFES, Vila Velha, Brazil

8:30-10:30 am Monday PLANT "OMICS"

Erin Gemperline (Dow Agrosciences) Sagamore 5-7 level 2

MOE am 08:30 Plant lonomics Profiling: Development of a Highthroughput Multi-elemental Profiling Technique
Using ICP-MS and Case Studies in Onion, Potato
and Barley; Jacqueline M. Chaparro^{1, 2}; Corey D.
Broeckling¹; Jessica E. Prenni¹; Adam L. Heuberger²;

¹Colorado State University's Proteomics and
Metabolomics Facility, Fort Collins, CO; ²Colorado
State University Department of Horticulture and

Landscape Architecture, Fort Collins, CO
MOE am 08:50 Direct Identification of Mosaic Virus Induced

Molecular Signature Changes in Plant
Leaves Using High Throughput Laser-REIMS
Technology; Richard Schäffer¹; Julia Balog².³;
Gabriel Horkovics-Kovats²; Tamas Karancsi²; Steven
Derek Pringle³.⁴; Katalin Salánki⁵; Ákos Gellért⁵;
Zoltan Takats³; ¹Waters Research Center, Budapest;
²Waters Research Center, Budapest; ³Imperial
College London, London; ⁴Waters Corporation,
Wilmslow, UK; ⁵Centre for Agricultural Research,

Hungarian Academy of Sciences, Budapest, Hungary
MOE am 09:10 Implementation of a Spatial Metabolomics

Approach for Exploring Interactions within a Tripartite Plant-Fungus-cyanobacterium System; Dusan Velickovic¹; Alyssa A. Carrell²; Rosalie K. Chu¹; Malak M. Tfaily¹; Dale Pelletier³; Samuel M. D. Seaver⁴; Mathew Thomas¹; Ljiljana Pasa-Tolic¹; David J. Weston².³; Christopher R Anderton¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Department of Biology, Duke University, Durham, NC; ³Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN; ⁴Mathematics and Computer Science Division, Argonne National Laboratory, Argonne, IL

MOE am 09:30 Proteomic Profiling to Identify the Unintended Effects of Genetic Modification on Gluten

Proteins; Sophie Bromilow¹; Lee A Gethings²; Mike Buckley³; Peter Shewry⁴; E. N. C Mills¹; ¹School of Biological Science, Manchester Institute of Biotechnology, Manchester, UK; ²Waters Corporation, Wilmslow, UK; ³School of Environmental Sciences, Manchester Institute of Biotechnology, Manchester, UK; ⁴Rothamsted Research, Harpenden, UK

MOE am 09:50 Large Scale Integration of Proteomics and

Genomics Data to Enhance Rice Genome Annotation; <u>Da Qi</u>1; Zhe Ren²; Bo Wen²; Ruo Zhou²; Siqi Liu².³; Andrew R Jones1; 1 University of Liverpool, Liverpool, UK; 2 The BGI-Shenzhen, Shenzhen, China: 3 Beijing Institute of Genomics, Chinese

Academy of Sciences, Beijing, China

MOE am 10:10 Streamlining Phosphoproteomic Workflow to Study Plant Signaling and Its Application to Tomato Phosphoproteomics; Chuan-Chih Hsu¹; Yingfang Zhu¹; Pengcheng Wang¹; Peipei Zhu¹; I-Hsuan Chen¹; Yuan Zhou¹; Jian-Kang Zhu¹; Andy Tao¹; 'Purdue University, West Lafayette, IN

8:30-10:30 am Monday ION MOBILITY: NEW DEVELOPMENTS & APPLICATIONS Theresa Evans-Nguyen (Univ. of Southern Florida) Wabash level 1

MOF am 08:30 A New Instrument with High Mass and High Ion Mobility Resolution; Michael T. Bowers 1; Thomas Wyttenbach2; Paul R Kemper2; Mel Park3; Goekhan Baykut4; 1University of California, Santa Barbara, CA; 2University of California Santa Barbara, Santa Barbara, CA; 3Bruker Daltonics, Billerica, MA; 4Bruker Daltonik GmbH, Bremen, Germany

MOF am 08:50 Discovery and Targeted Monitoring of *D. discoideum* Lipids using Multidimensional LC-TIMS-MS/MS Separations; Kendra J. Adams¹; Cesar E. Ramirez¹; Richard H. Gomer²; Francisco Fernandez-Lima^{1,3}; ¹Florida International University, Miami, FL; ²Texas A&M University, College Station, Texas; ³Biomolecular Sciences Institute, Miami, FL

MOF am 09:10 Conformationally Dependent Peptide Hydrolysis Measured by Temperature Controlled ESI-IMS-MS; Daniel R. Fuller¹; Christopher R. Conant¹; Tarick J. El-Baba²; Zhichao Zhang²; Daniel W. Woodall²; David H. Russell³; David E. Clemmer²; ¹Indiana University Bloomington, Bloomington, IN; ¹Indiana University Bloomington, Bloomington, IN; ³Texas

A&M University, College Station, TX
MOF am 09:30 Multidimensional, Time-resolved Trapped Ion

Mobility Spectrometry-Mass Spectrometry (TIMS/TIMS-MS) to Elucidate Conformations of Proteins; Fanny Caroline Liu¹; Mark E Ridgeway²; Melvin A Park²; Christian Bleiholder¹; ¹Florida State University, Tallahassee, FL; ²Bruker Daltonics, Billerica, MA

MOF am 09:50 Transformational Approaches for Realizing
High Resolution, High Throughput Ion Mobility
Measurements: Compressive Sensing and Ion

Measurements: Compressive Sensing and Ion Multiplexing; Austen L. Davis'; Brian H. Clowers'; 'Washington State University, Pullman, WA

MOF am 10:10 Exploring Rigidity and Flexibility with Ion Mobility
Mass Spectrometry: From Synthetic Knots to
Disordered Proteins; Rachelle Black¹; Lukasz
Migas¹; Eleanor Dickinson¹; Bruno Bellina¹; Kamila
J Pacholarz¹; Perdita E Barran²; ¹The University of
Manchester, Manchester, UK; ²The University of
Manchester, Manchester, Greater Manchester

8:30-10:30 am Monday INSTRUMENTATION: NEW DEVELOPMENTS IN ION DETECTION Mark Bier (Carnegie Mellon University) Room 101-106 level 1

MOG am 08:30 Mass and Stiffness Spectrometry based on 2D Scanning Multimode Nanomechanical Resonators for Biological Applications; Oscar Malvar¹; Jose Jaime Ruz¹; Priscila Monteiro Kosaka¹; Carmen Martínez Domínguez¹; Eduardo Gil-Santos¹; Dimitris Papanastasiou²; Monsterrat Calleja¹; Javier Tamayo¹; ¹CSIC, Tres Cantos, Madrid; ²Fasmatech Science & Technology, Athens, Greece

MOG am 08:50 Decreasing Uncertainty in the Mass-to-Charge Measurement in Charge Detection Mass Spectrometry with an Improved Ion Trap and Detector; Joanna Hogan¹; Martin Jarrold²; *Indiana*

MONDAY MORNING ORAL SESSIONS

	University, Bloomington, IN; ² Indiana University Bloomington, Bloomington, IN	MOH am 08:50	Paper Spray and Kendrick Mass Defect Analysis of Block and Random Copolymers; Robert B.
MOG am 09:10	High Resolution Stigmatic Ion Imaging of Single		Cody ¹ ; Thierry Fouquet ² ; Kanae Teramoto ³ ; Koji
	Cells using a Timepix Pixel Detector; Anne L		Okuda ⁴ ; Andrew John Dane ⁴ ; Evgeny Tishchenko ⁴ ;
	<u>Bruinen</u> ¹ ; Rachelle Balez ² ; Nino lakobachvili ¹ ;		¹ JEOL USA, Inc., Peabody, MA; ² National Institute
	Joel Keelor ¹ ; Shane R. Ellis ¹ ; Ron MA Heeren ¹ ;		of Advanced Industrial Science and Technology
	¹ M4I Institute - Maastricht University, Maastricht,		(AIST), Tsukuba, Japan; ³JEOL Ltd., Akishima,
	Netherlands; ² Illawarra Health and Medical	MOII 00:40	Japan; ⁴JEOL USA Inc., Peabody, MA
	Research Institute, School of Biological Sciences,	MOH am 09:10	
MOG am 09:30	University of Wollongong, Wollongong, Australia Development of High Intensity Biomolecular		Defect Analysis of Polymer Ions with Fractional Base Units; Thierry Fouquet ¹ ; Hiroaki Sato ¹ ;
WOG alli 09.50	ion Beam with Quantitative and Qualitative		¹ National Institute of Advanced Industrial Science
	Measurement; Szu-Hsueh Lai ^{1, 2} ; Jung-Lee Lin ¹ ;		and Technology (AIST), Tsukuba, Japan
	Chung-Hsuan Chen ^{1,2} ; ¹ Genomics Research	MOH am 09:30	
	Center Academia Sinica, Taipei; ² National Taiwan		Mode Electrospray Ionization to Simplify MS/
	University, Taipei, Taiwan		MS Reading of Information Digitally Encoded
MOG am 09:50	High-Resolution Helium and Argon Isotope		in Sequence-defined Polyurethanes; Salomé
	Analysis by Ion Counting in a Small, Multi-Turn		Poyer1; Jean-Arthur Amalian1; Benoit Eric Petit2;
	Time-of-Flight Mass Spectrometer; Kirk Richard		Sophia Telitel ² ; Denise Karamessini ² ; Jean-François
	<u>Jensen</u> ¹ ; Toshinobu Hondo ^{1, 2} ; Yosuke Kawai ³ ;		Lutz ² ; Laurence Charles ¹ ; ¹ Aix-Marseille University,
	Hirochika Sumino ⁴ ; Michisato Toyoda ¹ ; ¹ Project		Marseille, France; ² Institut Charles Sadron, CNRS,
	Research Center for Fundamental Sciences,		Strasbourg, France
	Graduate School of Science, Osaka University,	MOH am 09:50	. , ,
	Toyonaka, Japan; ² MS-Cheminformatics, LLC,		Materials; James D Wright Jr ¹ ; Mary Margaret
	Inabe-gun, Japan; 3Department of Earth and Space		Wade ¹ ; Bradley Ruprecht ¹ ; Richard Moore ¹ ; Jonathan

MOH am 10:10

MOG am 10:10 Novel Data Acquisition Approaches for Enhanced Ion Detection in FTMS Instruments;

Japan

Anton N. Kozhinov¹; Konstantin O. Nagornov¹; Yury O. Tsybin¹; ¹Spectroswiss Sàrl, Lausanne, Switzerland

Science, Graduate School of Science, Osaka

University, Toyonaka, Japan; 43. Department of Basic Science, Graduate School of Arts and

Sciences, The University of Tokyo, Meguro-ku,

8:30-10:30 am Monday SYNTHETIC POLYMERS Chrys Wesdemiotis (University of Akron) Room 107-110 level 1

MOH am 08:30 Characterization of Synthetic Fibers and their Finish Layer by LAESI - MS; Freddie van Geenen 1.

²; Maurice Franssen¹; Han Zuilhof¹; Michel Nielen¹.³; ¹Wageningen University, Wageningen, Netherlands; ²Tl-Coast, Amsterdam, Netherlands; ³RIKILT Wageningen University & Research, Wageningen, Netherlands

10:30 am-2:30 pm Monday MONDAY POSTER SESSION Poster/Exhibit Hall

Dow Chemical Company, Freeport, TX

Oyler²; Kelly Smith²; ¹US Army ECBC, APG, MD; ²USARMY MEDCOM USAMRICD, APG, MD

Thermally-Induced Reaction Mechanisms of Benzocyclobutene-Based Polymers; Anthony

Paul Gies1; Nathan J. Rau1; Liam Spencer1; 1The

Lunch concessions are open 11:00 am-2:00 pm Odd-number posters present 10:30 am-1:00 pm Even-number posters present 12:00-2:30 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 MS IN CLINICAL ANALYSIS Julie Ray (ARUP) Hall D level 1	MOA pm 03:30	and Microbiology, University of Victoria, Victoria, BC, Canada More (Sensitivity) is Always Better: Measuring Sub-clinical Levels of Thyroglobulin in Human
MOA pm 02:30	Development and Validation of a Sensitive LC-MS/MS Method for Analysis of Milrinone in Pediatric Plasma; <u>Ganesh Moorthy</u> ¹ ; Annie Giaccone ¹ ; Athena F Zuppa ¹ ; 'The Children's Hospital of Philadelphia, Philadelphia, PA		Serum on a Micro-flow LC-MS/MS System; Christopher M. Shuford ¹ ; Jay S. Johnson ² ; J. Will Thompson ³ ; Patricia L. Holland ¹ ; James Murphy ² ; Russell P. Grant ¹ ; 'Laboratory Corporation of America, Burlington, NC; 'Waters Corp, Milford, MA;
MOA pm 02:50	A Fast Method for the Detection of Antiepileptic Drugs in Human Urine Using Positive- Negative Polarity Switching LC-MS/MS; Brandi R. Bridgewater ¹ ; Erin C. Strickland ² ; Gregory L. McIntire ² ; 'Ameritox, LLC, Greensboro, NC; ² Ameritox, LLC, Greensboro, NC	MOA pm 03:50	³ Duke University, Durham, NC A Highly Sensitive LC-MS/MS Method for the Simultaneous Quantitation of 3α and 3β Androstane-3,17β Diol in Post-Menopausal Serum; Yuyong Ke¹; Alain Dury¹; Renaud Gonthier¹; Fernand Labrie¹; ¹EndoCeutics, Quebec, QC, Canada
MOA pm 03:10	Accurate Quantitation and Stability Testing of 21 Amino Acids on Dried Blood Spots by UPLC/MRM-MS; Jun Han¹; Rehan Higgins¹; Juncong Yang¹; Karen Lin¹; Christoph H. Borchers¹.²; ¹University of Victoria - Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochemistry	MOA pm 04:10	Determination of 25-hydroxyvitamin D in Aqueous Cellular Environments by LC-MS/MS Using the Novel Chemical Derivatization Reagent MDBP; Miriam J. Mueller¹; Dietrich A. Volmer¹; ¹Saarland University, Saarbruecken, Germany

MONDAY AFTERNOON ORAL SESSIONS

ANALYTI	2:30-4:30 pm Monday CAL CHALLENGES OF MICRODOSING AND MICROSAMPLING STUDIES Lucinda Hittle (Merck & Co) 500 Ballroom level 1	MOC pm 03:50	Neta¹; Yuxue Liang¹; Stephen E Stein¹; ¹National Institute of Standards and Technology, Gaithersburg, MD Purification, Concentration and Metabolite Identification of Endogenous Urine Metabolites in Large Scale Phenotyping Studies; Luke
MOB pm 02:30	Development of Small Sample Volume Methods to Measure Drugs in Pediatric Patients: Moving Towad One-drop Blood Assays; Liusheng Huang¹; Janel Long-boyle²; Francesca Aweeka²; ¹San Francisco General Hospital, UCSF, San Francisco, CA; ²UCSF, San Francisco, CA		Whiley ¹ ; Elena Chekmeneva ² ; David J Berry ¹ ; Zoltan Takats ² ; Elaine Holmes ² ; Jeremy K Nicholson ^{1,2} ; Matthew Lewis ¹ ; ¹ MRC-NIHR National Phenome Centre, Imperial College London, London, UK; ² Division of Computational and Systems Medicine, Department of Surgery and Cancer, Imperial College
MOB pm 02:50	Dried Blood Spots in Tips Targeted Drug Screening in 9 Seconds per Sample Using Laser-Diode-Thermal-Desorption Mass Spectrometry (LDTD-MS/MS); Jonathan Rochon ¹ ; Pier-Luc Plante ² ; Serge Auger ³ ; Jacques Corbeil ² ; Réal Paquin ² ; Jean Lacoursiere ³ ; Pierre Picard ³ ; ¹ Université Laval, Québec, QC, Canada; ² Université Laval, Quebec, Quebec; ³ Phytronix Technologies, Québec, QC, Canada	MOC pm 04:10	London, London, UK Untargeted Metabolomics of 2400 American Gut Project Participants Reveals Information About Our Health, Behavior, and Microbiota; Alan K. Jarmusch¹; Embriette R Hyde²; Alexey V. Melnik¹; Alexander Aksenov¹; Daniel McDonald²; Ricardo da Silva¹; Lindsay DeRight-Goldasich²; Paul Wischmeyer³; Rob Knight²; Pieter C. Dorrestein¹; ¹Skaggs School of Pharmacy and Pharmaceutical
MOB pm 03:10	Testing Anabolic Agents from Exhaled Breath for Doping Control Purposes Using Liquid Chromatography / High- and Low-resolution Tandem Mass Spectrometry; Mario Thevis ^{1,2} ; Oliver Krug ^{2,3} ; Hans Geyer ^{2,3} ; Andreas Thomas ³ ;		Sciences, University of California San Diego, La Jolla, CA; ² Department of Pediatrics, University of California San Diego, La Jolla, CA; ³ Duke University School of Medicine, Durham, NC
	Thomas Piper ³ ; Josef Dib ³ ; Andreas Lagojda ⁴ ; Dirk Kuehne ⁴ ; Wilhlem Schänzer ³ ; ¹ German Sport University, Cologne, NRW; ² European Monitoring Center for Emerging Doping Agents, Cologne/Bonn, Germany; ³ German Sport University Cologne,		2:30-4:30 pm Monday ONMENTAL: EMERGING CONTAMINANTS Il Chiarelli (Loyola University Chicago) Sagamore 4 level 2 Combining Non-Target and Target Screening of
MOB pm 03:30	Cologne, Germany; *Bayer AG, Monheim, Germany Comprehensive Glycomic and Proteomic Profiling from Histopathological Sections of Breast Cancers: A Comparison Study of Tumor Heterogeneity; Le Meng¹; Nicolas Bloch²; Robert Pistey²; Joshua A. Klein²; Joseph Zaia²; *Boston University School of Medicine, Boston, MA; *2Boston		DBPs: Assessing Removal Strategies to Make Drinking Water Safer; Susan Richardson ¹ ; Amy A. Cuthbertson ¹ ; Susana Y. Kimura ¹ ; Hannah K. Liberatore ¹ ; Detlef Knappe ² ; Benjamin Stanford ³ ; R. Scott Summers ⁴ ; Eric Dickenson ⁵ ; Chad Seidel ⁶ ; Clark Maness ² ; Riley Mulhern ⁴ ; Amlan Ghosh ⁶ ; Jonathan D by Graphing and Dispersional Computations of Chambers and Pipersional States
MOB pm 03:50	University School of Medicine, Boston, MA Mass Spectrometry Profiling of in vitro Tumors Using the Single-probe Device; Xiang Tian ¹ ; Wei Rao ¹ ; Zhibo Yang ¹ ; ¹ University of Oklahoma, Norman, OK		Department of Chemistry and Biochemistry, Columbia, SC; ² North Carolina State University, Raleigh, NC; ³ Hazen and Sawyer, Raleigh, NC; ⁴ University of Colorado, Boulder, CO; ⁵ Southern Nevada Water Authority, Las Vegas, NV; ⁶ Corona
MOB pm 04:10	Development of Chemical Isotope Labeling Nanoflow LC-MS for High-Coverage Metabolomic Profiling of 100 to 1000 Cancer Cells; <u>Xian Luo</u> ¹ ; Liang Li ¹ ; ¹ University of Alberta, Edmonton, Alberta	MOD pm 02:50	Environmental Consulting, Boulder, CO; ⁷ LECO Corporation, Saint Joseph, MI Organic Pollutants in the Clouds of the Center of France; Olga Polyakova ¹ ; Viatcheslav Artaev ² ; Isabelle Canet ³ ; Audrey Lallement ³ ; Pierre Amato ³ ;
	2:30-4:30 pm Monday ABOLOMICS: UNTARGETED PROFILING drew Patterson (Penn State University) Sagamore 1-3 level 2		Mickael Vaitilingom ^{3, 4} ; Anne-Marie Delort ³ ; Albert T. Lebedev ¹ ; ¹ Moscow State University, Moscow, Russia; ² LECO Corporation, Saint Joseph, MI; ³ Clermont Université Auvergne, CNRS, Sigma-
MOC pm 02:30	Annotation of Challenging Signals in Untargeted Metabolomics; Nathaniel G Mahieu ¹ ; Gary J Patti ² ; ¹ Washington University in St. Louis, St. Louis, MO; ² Washington University in St Louis, St. Louis, MO		Clermont, Institut de Chimie de Clermont-Ferrand, F-63000, Clermont-Ferrand, France; ⁴ Clermont Université Auvergne, CNRS, LaMP/OPGC, F-63000, Clermont-Ferrand, France
MOC pm 02:50	Increasing Compound Identification Rates in Untargeted Metabolomics Research; Ivana Blaženović¹; Tobias Kind¹; Hrvoje Torbašinović²; Slobodan Obrenović²; Sajjan S. Mehta¹; Oliver Fiehn¹; ¹Metabolomics Fiehn Lab, Genome Center, University of California, Davis, California; ²Inovatus, Zagreb, Croatia	MOD pm 03:10	Potential Environmental Effects of Unconventional Oil and Gas Extraction: A Menu of New Mass Spectrometry Methods for Advanced Monitoring; Doug D. Carlton ^{1, 2} ; Zacariah L. Hildenbrand ^{2, 3} ; Ines C. Santos ¹ ; Kevin A. Schug ^{1, 2} ; ¹ The University of Texas at Arlington, Arlington, TX; ² Affiliate of the Collaborative Laboatorires for
MOC pm 03:10	Curated Open-access LC-Orbitrap-MS/MS Spectral Library of Endogenous Metabolites and Lipids; Prasad Phapale; Andrew Palmer; Dominik Fay; Ivan Protsyuk; Theodore Alexandrov; EMBL,	MOD pm 03:30	Environmental Analysis and Remediation, The University of Texas at Arlington, Arlington, Texas; ³ Inform Environmental, LLC, Dallas, Texas Kendrick Mass Defect Analysis in Environmental
MOC pm 03:30	Heidelberg, Germany Extending a Comprehensive Reference Tandem Mass Spectral Library for More Reliable Metabolite Identification; Xiaoyu Yang¹; Pedatsur		Non-target Screening: Identification of Ozonation By-products in Water Treatment; Sylvain Merel ¹ ; Sascha Lege ¹ ; Christian Zwiener ¹ ; ¹ Universität Tübingen, Tübingen, Germany

MONDAY AFTERNOON ORAL SESSIONS

Married Control			
MOD pm 03:50	Identification of Disperse Dyes in House Dust: A		2:30-4:30 pm Monday
	Novel Class of Emerging Indoor Contaminants	ION MOBILI	TY: SMALL MOLECULES, PHARMACEUTICALS,
	Relevant to Human Exposure; Lee Ferguson ¹ ;		AND DMPK
	Heather M Stapleton ² ; ¹ Duke University, Durham,	Ki	mberly Kew (East Carolina University)
	NC; ² Duke University, Durham , NC		Wabash level 1
MOD pm 04:10	Determination of Nitro-Musks in Wastewater	MOF pm 02:30	Utilising Ion-mobility Mass Spectrometry and
	Using QuECheRS Method Combined with		Molecular Modelling to Screen for Synthetic
	Electron Capture Negative Ion GC/Tandem		Biology Targets; Eleanor Sinclair ¹ ; Cunyu Yan ¹ ;
	Mass Spectrometry; Tommy Bisbicos ¹ ; Grazina		Maria Vinaixa ¹ ; Perdita E Barran ¹ ; ¹ University of
	Pacepavicius¹; Mehran Alaee¹; ¹Environment and	MOE 00-50	Manchester, Manchester, UK
	Climate Change Canada, Burlington, ON, Canada	MOF pm 02:50	Matrix-Assisted Ionization - Ion Mobility
	2:20 4:20 pm Manday		Spectrometry - Mass Spectrometry for the
LIV	2:30-4:30 pm Monday DROGEN-DEUTERIUM EXCHANGE MS		Characterization of Drugs Directly from Biological or Synthetic Environments; Ellen D.
	audia Maier (Oregon State University)		Inutan ^{1, 2} ; Trine G. Halvorsen ³ ; Wen-Jing Zhang ¹ ;
OI.	Sagamore 5-7 level 2		I-Chung Lu¹; James Wager-Miller⁴; Srinivas B.
MOE pm 02:30	Probing the Intracellular Structure of α-synuclein		Narayan ⁵ ; David Crich ¹ ; Ken Mackie ⁴ ; SARAH
1110E piii 02.00	by In-Cell Hydrogen/Deuterium Exchange; Jeppe		TRIMPIN ^{1, 2} ; ¹ Department of Chemistry, Wayne
	Buur Madsen ¹ ; Cagla Sahin ^{2, 3} ; Daniel Otzen ^{2, 3} ;		State University, Detroit, MI; ² MSTM, LLC, Newark,
	Poul Henning Jensen ⁴ ; Thomas J.D. Jørgensen ¹ ;		DE; 3Dept. Pharmaceutical chemistry School
	¹ University of Southern Denmark, Department of		of Pharmacy University of Oslo, Oslo, Norway;
	Biochemistry and Molecular Biology, Odense M,		⁴ Psychology and Brain Sciences, Indiana University,
	Denmark; ² Aarhus University, Interdisciplinary		Bloomington, IN; 5Detroit Medical Center University
	Nanoscience Center, Aarhus C, Denmark; ³ Aarhus		Laboratories - Core, Detroit, MI
	University, Department of Molecular Biology	MOF pm 03:10	Determination of pH-induced Oligomerization
	and Genetics, Aarhus C, Denmark; ⁴Aarhus		of a Lipidated Peptide by IMS-MS; Elizabeth E
	University, DANDRITE—Danish Research Institute		Pierson ¹ ; Nicholas A Pierson ¹ ; ¹ Merck Research
	of Translational Neuroscience & Department of		Laboratories, Rahway, NJ
	Biomedicine, Aarhus C, Denmark	MOF pm 03:30	Quantitation of Urinary Acetylcarnitine in
MOE pm 02:50	Analyzing Histone Dynamics Using Hydrogen-		Radiation Exposed Non-Human Primates (NHP)
	Deuterium Exchange coupled to Top-down and		is Dependent upon the Calibration Curve Matrix;
	Middle-down Mass Spectrometry; Kelly Karch;		Nicholas B. Vera ^{1, 2} ; Evan Pannkuk ³ ; Evagelia C.
	Mariel Coradin; Benjamin A. Garcia; <i>University of Pennsylvania, Philadelphia, PA</i>		Laiakis ⁴ ; A.J. Fornace, Jr. ⁴ ; Stephen L. Coy ² ; Derek M. Erion ¹ ; Paul Vouros ² ; ¹ Pfizer, Cambridge, MA;
MOE pm 03:10	Top-down HDX Analysis of Proteins Using		² Northeastern University, Boston, MA; ³ Tumor
MOL pill 00.10	Ultraviolet Photodissociation; Nicholas I. Brodie ¹ ;		Biology Program, Lombardi Comprehensive Cancer
	Evgeniy V. Petrotchenko¹; Jingxi Pan¹; Terry Zhang²;		Center, Georgetown University, Washington, DC;
	Romain Huguet ² ; Rosa Viner ² ; Vlad Zabrouskov ² ;		Georgetown University, Washington, DC
	Christoph H. Borchers ^{3, 4} ; ¹ University of Victoria-	MOF pm 03:50	Differential Mobility - Mass Spectrometry
	Genome British Columbia Proteomics Centre,	·	Metabolomics Platform for Biomarker Discovery
	Victoria, BC, Canada; ² Thermo Fisher Scientific,		in Chronic Kidney Disease; Stefanie Wernisch1;
	San Jose, CA; 3University of Victoria - Genome BC		Thekkelnaycke Rajendiran ¹ ; Subramaniam
	Proteomics Centre, Victoria, BC, Canada; ⁴ Dept.		Pennathur ¹ ; ¹ University of Michigan, Ann Arbor, MI
	of Biochemistry and Microbiology, University of	MOF pm 04:10	Comparison of the Selected Metal Binding
	Victoria, Victoria, BC, Canada		Characteristics of the Methanobactin from
MOE pm 03:30	Probing Protein Structure via Surface Induced		Methylosinus trichosporium OB3b; Laurence
	Dissociation and Gas Phase Hydrogen-		Angel ¹ ; Jacob W McCabe ¹ ; Rajpal Vangala ¹ ; ¹ Texas
	Deuterium Exchange in a Hybrid FT-ICR; Jing		A&M University - Commerce, Commerce, TX
	Yan¹; Arpad Somogyi¹; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OHI		2:30-4:30 pm Monday
MOE pm 03:50	Identification of Epitopes in Japanese	INCT	RUMENTATION: AMBIENT IONIZATION:
MOL pill 03.30	Encephalitis Virus Envelope Protein and		NSTRUMENTATION & APPLICATIONS
	Characterization of Antigen Antibody Complexes		Mari Prieto (Thermo Scientific)
	by Mass Spectrometry; Jagat Adhikari ¹ ; Melissa A.		Room 101-106 level 1
	Edeling ² ; James Heffernan ² ; Estefania Fernandez ² ;	MOG pm 02:30	
	Michael S. Diamond ² ; Daved H. Fremont ² ; Michael		Facilitates Rapid Fingerprinting of Lignin
	L. Gross ¹ ; ¹ Washington University, St Louis, MO;		via Ambient Ionization High-resolution Mass
	² Washington University School of Medicine, St		Spectrometry; Elizabeth A. Crawford1; Stefanie
	Louis, MO		Gerbig ² ; Bernhard Spengler ² ; Dietrich A. Volmer ¹ ;
MOE pm 04:10	Hydrogen-Deuterium Exchange MS Provides		¹ Saarland University, Saarbruecken, Germany;
	Insights into Structural Dynamics of		² Justus Liebig University Giessen, Giessen, Germany
	Apolipoprotein A-I and its Disease-causing	MOG pm 02:50	
	Mutants on Model Discoidal High-density		Detection of Femtomole Levels of Non-polar to
	Lipoproteins; Christopher Wilson ¹ ; Madhurima		Less Polar Compounds; Donghwi Kim¹; Un Hyuk
	Das ² ; Xiaohu Mei ² ; Olga Gursky ² ; John R Engen ¹ ;		Yim²; Byungjoo Kim³; Sangwon Cha⁴; Sunghwan
	¹ Department of Chemistry and Chemical Biology, Northeastern University, Boston, MA: ² Department		Kim ¹ ; ¹ Kyungpook National University, Daegu, South Korea: ² Korea Institute of Ocean Science and

Northeastern University, Boston, MA; ²Department of Physiology and Biophysics, Boston University

School of Medicine, Boston, MA

South Korea; ²Korea Institute of Ocean Science and Technology, Geoje, South Korea; ³Korea Research

Institute of Standards and Science, Daejeon, South

Korea; ⁴Hankuk University of Foreign Studies,

Yongin, South Korea

MONDAY AFTERNOON ORAL SESSIONS

MOG pm 03:10 Delayed Desorption Improves Protein Analysis by Desorption Electrospray Ionization Mass Spectrometry; Tara L. Maser1; Elahe Honarvar1; Andre R. Venter¹; ¹Department of Chemistry,

Western Michigan University, Kalamazoo, MI **Transmission Low Temperature Plasma Probe**

for in situ Mass Spectrometry Analysis with Paper Analytical Devices; Yaoyao Zhao1; Xiaoxiao Ma2; Zhenwei Wei1; Hansen Zhao1; Jia Jia1; Sichun Zhang¹; Zheng Ouyang^{1,2}; Xinrong Zhang¹; ¹Tsinghua University, Beijing, Beijing; ²Purdue, West

Lafavette, IN

MOG pm 03:30

MOH pm 02:50

MOG pm 03:50 Coupling of a Versatile Three-Electrode Paper-Based Electrochemical Cell to Mass Spectrometry: Electrochemical Sonic Spray Ionization Mass Spectrometry; Yao-Min Liu¹;

Yeyoung Ha1; Andrew A. Gewirth1; 1University of Illinois at Urbana Champaign, Urbana, IL

MOG pm 04:10 Triboelectric Nanogenerators (TENGs) for Nano-Coulomb Ionization Mass Spectrometry; Anyin Li¹; Yunlong Zi²; Zhong Lin Wang²; Facundo M Fernandez²; ¹Georgia Institute of Technology,

Atlanta, GA; 2Georgia Institute of Technology, Atlanta, GA

2:30-4:30 pm Monday

FUNDAMENTALS: ION-ION AND ION-NEUTRAL INTERACTIONS Scott McLuckey (Purdue University) Room 107-110 level 1

MOH pm 02:30 Charge Transfer Dissociation (CTD): High

Energy Radical Fragmentation of Glycans, Proteins and Peptides; Glen Paul Jackson¹; Pengfei Li2; David Ropartz3; Helene Rognaux4; ¹West Virginia University, Morgantown, WV; ²West Virginia University, Morgantown, WV; 3INRA, UR1268 Biopolymers Interactions Assemblies,

Nantes, France: 4INRA, UAR1008, Nantes, France

Gas-Phase Peptide Bioconjugation with PLP and the Identification of Activation Site by Accumulative Tandem Mass Spectrometry; Muyi

HE1; You Jiang2; Sijian Ye3; Xiang Fang2; Wei Xu1;

¹Beijing Institute of Technology, Beijing, Beijing; ²National Insititute of Metrology, Beijing, China; ³Changchun University of Science and Technology, Changchun, China

MOH pm 03:10 Studying Reduced Metal Complexes via Sequentially Coupled Ion/Ion-Ion/Molecule

Reactions; Mariah Parker1; Scott Gronert2; 1Virginia Commonwealth University, Richmond, VA; 2Virginia Commonwealth University, Richmond, Virginia

MOH pm 03:30 **Dual Cryogenic Ion Trap Spectrometer for** Temperature-controlled Ion-molecule Reactions

and Clustering; Etienne Garand¹; Erin M Duffy²; Jonathan M Voss²; Kaitlyn Fischer²; ¹University of Wisconsin-Madison, Madison, WI; ²University of

Wisconsin-Madison, Madison, WI

MOH pm 03:50 **Gas-phase Peptide Cross Linking for Probing** the Nature of Non-covalent Bonding of a

Peptide Related to Brain Damage; Yang Liu1; Emilie Viglino1; Frantisek Turecek1; 1University of

Washington, Seattle, WA

Differentiating N- Versus O-Glucuronide MOH pm 04:10 Metabolites via Ion/Molecule Reactions; John

Kong¹; Zaikuan Yu¹; Edouard Niyonsaba¹; Ravikiran Yerabolu¹; Xin Ma¹; Mckay Easton¹; Duanchen Ding1; Hanyu Zhu1; Huaming Sheng2; Tiffany Jarrell2; Zhoupeng Zhang2; Hilkka Kenttamaa1; ¹Purdue University, West Lafayette, IN; ²Merck &

Co., Inc, Kenilworth, NJ

4:45-5:30 pm Monday **AWARD LECTURE** Vicki Wysocki (The Ohio State University) Hall D level 1



Award for a Distinguished Contribution in Mass Spectrometry

Catherine E. Costello **Boston University**

5:45 - 7:00 PM MONDAY WORKSHOPS

There are light refreshments in common areas.

01. Improving Scientific Writing Skills **Presiding: Christopher Petucci Room 130**

"The difference between the almost right word and the right word is really a large matter - it's the difference between the lightening bug and the lightening (Mark Twain)." The ability to write grammatically correct sentences and succinct paragraphs is essential to clearly communicate ideas. This workshop will be a hands-on session for logical, clear paragraph development. Specific topics include essential grammar for scientific writing, writing grammatically correct sentences, and clearly organizing and developing your ideas in written form. At the conclusion of this session, you will have an increased knowledge of the basic writing skills to prepare manuscripts with greater clarity for theses, grant submissions, and scientific journals.

Would this workshop be of interest to the Undergraduate Research in MS and Young Mass Spectrometrists interest groups?

02. Metal Ion Coordination in Gas-Phase Bioanalysis: Reaping **Practical Benefits**

(Metal Ion Coordination Chemistry Interest Group) Presiding: Cheng Lin, Eric Dodds Room 131-132

A diverse variety of biomolecules undergo structurally and functionally significant interactions with metal ions. These interactions can be preserved in vacuo, where the resulting metalated species can exhibit characteristics quite dissimilar from those of their protonated counterparts. In the context of gas-phase bioanalysis, these differences can provide access to unique low-energy conformations, alternative dissociation pathways, or varied electronic properties. In addition, metal ion adduction can confer distinctive isotopic features and mass defect signatures. Taken together, these considerations highlight a vast yet largely untapped potential for metal ion coordination to enhance gasphase bioanalytical strategies based on mass spectrometry, tandem mass spectrometry, and ion mobility spectrometry. This workshop will identify areas in which metal ion adduction yields advantages for biomolecular analysis spanning a wide range of application areas addressed using mass spectrometry and allied methods. Significant focus will be placed on practical guidance as discussants and participants survey new fundamental insights and emerging biological applications involving the use of metal ion charge carriers.

03. Open Source Software Packages: Using and Making your Contributions (Bioinformatics MS Interest Group) Presiding: Samuel Payne, Meena Choi Room 133-134

In the last 10 years, the computational mass spectrometry research community has grown dramatically as witnessed by the number of conference sessions, posters and workshops which focus on

5:45 - 7:00 PM MONDAY WORKSHOPS



bioinformatics and related computational topics. As the community grows, it is essential that we work to bring cooperation and collaboration to the great minds that contribute to advancing this area of science. One critical aspect of a community of interacting scientists is open source software. Although many tools for computational mass spectrometry have recently been released as open source, there remains a limited re-use of such tools. Thus, as a community, we are not yet benefiting from open source. The purpose of this workshop is to introduce several established open source packages to the community with a special emphasis on how they can use these tools in their own development of new algorithms. We will also discuss how to create proper APIs in a tool to promote re-use.

04. Clinical Diagnostics: Translating New Mass 8. Spectrometry Approaches (Clinical Chemistry Interest Group) Presiding: Timothy Garrett Room 135-136

The clinical lab relies on LC-MS/MS approaches, especially triple quadrupole instrumentation, for a growing number of diagnostic approaches because of the sensitivity, selectivity and specificity that mass spectrometry (coupled with chromatography) provides. In translational research the growth of new analytical techniques such as ion mobility, mass spectrometric imaging and high-resolution mass spectrometry are widely employed. Yet the translation of these techniques to clinical diagnostics is slow because of cost, ruggedness, untested performance to name a few. However, as an example, as the cost of high-resolution instruments comes closer to the purchase of a triple quad the advantages that high resolution MS have might aid clinical diagnostics. This workshop is designed to gather scientists working on clinical translational research and clinical diagnostics to discuss the challenges associated with implementation of newer MS based technologies and offer advice into the future at the adoption of new analytical MS approaches.

05. FTMS: Successes and Challenges of Achieving Routinely High Mass Accuracy (FTMS Interest Group) Presiding: David Kilgour, Melinda McFarland Room 137-138

This year's workshop will be a discussion focused on the experiences of the community when trying to analyse samples, to a consistently high mass accuracy, by FTMS methods. So, which factors impact mass accuracy on FT-MS instruments and when is mass uncertainty adversely affecting your results or the confidence in your results, in practice?

A lot of the discussion about mass accuracy gets passed over because one can be quite liberal with mass accuracy when working with proteomics. But, for many applications, reliably high mass accuracy is key. In this workshop we will discuss the community's experience of the mass accuracy routinely achievable in FT-MS instruments. We will discuss our success stories, times when our mass accuracy was not what was expected and what methods are used to overcome the problems.

For example do you experience non-linearity across the mass range and wonder why why resolving power is impacted by the mass range? Do you experience changes in the accuracy of the mass measurement accuracy across a chromatographic peak or in different regions of the spectrum and how could you compensate for this? How can you compensate for changes in temperature? How do the vendors try to overcome these issues? Do you have success stories where you have been able to distinguish co-eluting or co-located molecules of similar mass because of the mas accuracy you have been able to achieve? As usual, there will be expert instrumental developers from both industry and academia to help answer your questions.

06. Exposomics Update: Success, Lessons and Future Goals (Exposomics Interest Group) Presiding: Anthony Macherone, Skip Kingston Room 139

The exposome compliments the genome and interrogates changes in biological response pathways resulting from exposures and integrates these with genomics and other biological information to ultimately determine the causative factors of chronic diseases. Within the exposome paradigm, exposures are defined as all bio-active chemicals circulating in the body. Examples include dietary chemicals, drugs, pollutants, metabolites, foreign DNA, reactive electrophiles adducted to human serum albumin and other sources of exposure (e.g., noise pollution, place of residence, lifestyle choices, etc.) that stimulate biochemical responses. The primary tools used in exposomic studies are mass spectrometry based in the liquid and the gas phases. These methodologies are supported by sophisticated commercial and opensource bioinformatics tools that tease out associations between the chemical information, the experimental variables and meta-data in what has come to be defined as exposome-wide association studies (EWAS).

Since 2010, at least 10 large scale exposome cohorts have been defined and funded in the USA, UK, EU, Japan and China and countless independent research initiatives have commenced - many focused on pre-natal, birth and early childhood exposures. This workshop will examine the results of exposomics studies reported in peer-reviewed literature over the past 2 - 3 years. The discussion will be focused on defining the strengths and weakness of the exposome paradigm, where innovation is needed and will attempt to define a path forward for exposome researchers.

08. Antibody-Drug Conjugate Research and Development: The Role of Multifaceted Mass Spectrometry (Pharmaceuticals Interest Group) Presiding: Matt Schenauer, John Valliere-Douglass Room 141-142

Due to the success of pharmaceutical interest group workshops since 2013, and broad interest in the use of MS in antibody drug-conjugate (ADC) research and development, we propose a similar workshop for 2017. After a short informal presentation (less than 15 minutes) the majority of the workshop will include an audience-driven discussion with the opportunity to ask questions to piers and a panel of experts. The short presentation will include a primer on ADCs, for those practicing mass spectrometry but unfamiliar with antibody therapeutics and their conjugates, and then provide a snapshot of current applications of MS analysis in the industry for ADC R&D. The organizers will have backup questions prepared for the panel and audience to start or prompt the discussion if needed. Potential areas of discussion may include initial Mab and drug assessments, bioanalytical assay development. and the scaling range of characterization required for ADCs as they progress through clinical development. Discussion may focus on Mass Spec method development, optimization, data analysis, and how this information is being applied within industry paradigms or changing

09. Forensics and Homeland Security Mass Spectrometry Research: A Critical Discussion between Academicians and Forensic Science Practitioners

(Forensics & Homeland Security Interest Group)
Presiding: Adam B. Hall, Kenyon M. Evans-Nguyen
Room: 143-144

Mass spectrometry serves critical needs in forensics and homeland security for the detection of a wide variety of target compounds. The reliability of these approaches has significant effects on public safety, airport security and border protection. In order to remain vigilant and utilize modern MS-based technologies within these fields, more research is needed to address gaps in knowledge during casework and screening operations. Academicians conduct the majority of MSbased forensic science research. However, a virtual chasm exists in the translation of new technologies into practice. Implementation of new technologies is often hindered by the unusually rigorous demand of forensic techniques. Data generated by forensic practitioners must yield conclusions that can be stated with a very high degree of certainty to be useful in legal proceedings and must be generated at a lower cost than private industry. An awareness of the needs and limitations of the forensic science community can lead to more productive collaborations between researchers and practitioners. The topic, "The Research Lifecycle in Forensics and Homeland Security" will be a

5:45 - 7:00 PM MONDAY WORKSHOPS

critical discussion between academicians and practitioners and will work to establish effective communication through a panel discussion composed of casework focused practitioners as well as forensic scientists who are involved in casework, but also do some research. Both presiders are former practitioners who are current academicians active in research. The panel will consist of diverse perspectives to engage the audience and gain a better understanding of this critical need in the fields of forensics and homeland security.

10. Art and Cultural Heritage: Mass Spec Applications Presiding: Mehdi Moini Room 145

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.

11. Mass Spectrometry Interactive Virtual Environment (MassIVE): Management of Big Data Presiding: Nuno Bandeira Room 231-234

The public availability of hundreds of terabytes of mass spectrometry data have created significant challenges for the reanalysis and reutilization of proteomics and metabolomics data. This workshop will focus on ways to make MS big data accessible and easily reusable for interpretation of newly-acquired data in labs of all sizes. In particular, we i) will discuss the relative merits and pitfalls of big data MS reanalysis using advanced approaches such as proteogenomics, spectral library and blind modification searches and ii) will explore multiple ways to integrate MS big data into labs' everyday research process, including a discussion on how to make data sharing more productive and rewarding for data generating labs.

12. Ion Trap Instrumentation for Harsh Environment and Point-of-Care Applications (Ion Trap MS Interest Group) Presiding: Zheng Ouyang, Wei Xu Room 235-238

Ion trap has served well as an independent mass analyzer and gasphase reactor for ion processing in hybrid instruments. In the new round of instrument development, ion trap is losing its elite status for large instruments but becoming a superior option for miniature MS systems for on-site, in-field analysis. With the strong trend of expanding MS for biomedical applications, miniature MS instruments for point-of-care analysis shall become a new focus of the instrumentation. This workshop will start with a provocative overview of the MS instrumentation development by Prof. R. Graham Cooks, followed by a series of short technical presentations and a panel discussion.

13. Photoionization: Applications, Developments, and Discussions (Photoionization MS Interest Group) Presiding: Ralf Zimmermann, Eleanor Riches Room 239

Photoionization is a complementary technique to other typical mass spectrometry ionization techniques, such as electrospray (ESI), electron ionization (EI), atmospheric pressure chemical ionization (APCI), etc. There are two main photoionization approaches in use today, namely Atmospheric Pressure Photoionization (APPI) and vacuum photoionization - more commonly known as single-photon ionization (SPI). APPI is commercially available and can be routinely implemented on LC-MS systems for diverse applications, whereas SPI is currently more of a research tool, although it is finding wider acceptance in several application areas - particularly those related to environmental analyses.

In this workshop, we will discuss novel applications and developments of both types of photoionization (APPI and SPI), with an opportunity for attendees to discuss their photoionization challenges and ask questions of colleagues and expert users. There will be a series of, very brief, presentations that will serve to initiate discussion around topics of key interest, including applications of both APPI and SPI, and novel developments in these fields. The aim is to help attendees understand more about the techniques and to have the chance to troubleshoot any specific issues they have encountered, thus broadening the implementation of photoionization in laboratories worldwide.

14. A Career in Mass Spec: Options and Where to start? (Young Mass Spectrometrists Interest Group) Presiding: M. Violet Lee, Doug Phanstiel Room 240-242

This workshop is intended to serve as a resource for young scientists interested in pursuing a career in the field of mass spectrometry. Come prepared for an interactive panel discussion on professional development with panelists from academia, government, and industry (domestic and foreign, biotech and pharma). Topics will be centered around fundamental training, internships, career options, and career planning and management.

15. Top-Down Proteomics Presiding: Paul Thomas, Ying Ge Room 243-245

Top Down protein mass spectrometry allows comprehensive analysis of intact, multiply modified proteoforms from complex mixtures. In this workshop, we will provide an update from the Consortium for Top Down Proteomics, discussing new community-wide pilot projects. We will also review and discuss common roadblocks to successful top down proteomics experiments from sample preparation to data acquisition to data analysis in a panel format. A limited number of 5 minute 'lightning talks' will be available for researchers to provide rapid-fire updates on recent achievements and accomplishments of note. Contact workshop chairs if you are interested in presenting.

AFTER 8:00 PM CORPORATE HOSPITALITY SUITES JW MARRIOTT HOTEL





From 6:45 am Tuesday CORPORATE BREAKFAST SEMINARS Convention Center and JW Marriott Hotel

Detailed schedule on page 15.
Pre-registration recommended, space is limited

8:30-10:30 am Tuesday

INFORMATICS: PEPTIDE AND PROTEIN IDENTIFICATION
Nuno Bandeira (UCSD)
Hall D level 1

TOA am 08:30

PROSPEC: The PROteometools SPEctrum Compendium; Mathias Wilhelm¹; Daniel P Zolg¹; Karten Schnatbaum²; Johannes Zerweck²; Tobias Knaute²; Bernard Delanghe³; Siegfried Gessulat¹; Hans-Christian Ehrlich⁴; Maximilian Weininger¹; Peng Yu1; Patroklos Samaras1; Judith Schlegl5; Karl Kramer¹; Tobias Schmidt¹; Holger Wenschuh²; Thomas Moehring³; Stephan Aiche⁴; Andreas F. Huhmer⁶; Ulf Reimer²; Bernhard Kuster^{1, 7,} 8; 1Technical University of Munich, Freising, Germany: ²JPT Peptide Technologies GmbH, Berlin, Germany; ³Thermo Fisher Scientific, Bremen, Germany; ⁴SAP SE, Potsdam, Germany; ⁵SAP SE, Walldorf, Germany; ⁶Thermo Fisher Scientific, San Jose, CA; ⁷Center for Integrated Protein Science Munich, Freising, Germany; 8Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany

TOA am 08:50

False Discovery Rates are Underestimated by the Target-decoy Strategy due to Unaccounted for Chemical and Biological Modifications; <u>Andy Kong</u>¹; Felipe Leprevost¹; Dmitry M. Avtonomov¹; Dattatreya Mellacheruvu¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI

TOA am 09:10

PTMProphet: Highly Flexible TPP Software Enables Exploration of the Known and Unknown PTM Universe with Bayesian Mixture Modeling and Beyond; David Shteynberg¹; Eric W. Deutsch¹; Jimmy K Eng²; Andrew Keller¹; Ulrike Kusebauch¹; Luis Mendoza¹; Zhi Sun¹; Kristian Swearingen¹; Robert L. Graham³; Julie A. Brazzatti³; Anthony Whetton³; Robert L. Moritz¹; *Institute for Systems Biology, Seattle, WA; *2University of Washington Genome Sciences, Seattle, WA; *3University of Manchester, Manchester, UK

TOA am 09:30

The Tale of Two Proteomes: How Data Processing Influences Cross-species Proteomic Analysis of Patient-derived Xenografts; Arshag Mooradian¹; Petra Erdmann-Gilmore¹; Xuya Wang²; Qiang Zhang¹; Sandeep Rajput¹; Zhanfang Guo¹; Jeremy Hoog¹; Kelly V. Ruggles²; Sjoerd van der Post¹; Sherri R. Davies¹; David Fenyö²; Shunqiang Li¹; Gary L. Johnson³; Cynthia X. Ma¹; R. Reid Townsend¹; Jason Held¹; ¹Washington University School of Medicine, St. Louis, MO; ²New York University School of Medicine, New York, NY; ³University of North Carolina School of Medicine, Chapel Hill. NC

TOA am 09:50

Covariation of Peptide Abundances Accurately Reflects Protein Concentration Difference; Bo Zhang¹; Mohammad Pirmoradian¹; Roman Zubarev¹; Lukas Käll²; ¹Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Solna, Sweden; ²Royal Institute of Technology, Stockholm, Stockholm

TOA am 10:10

pLink2.0: Improved Search Engine for Large Scaled Cross-linked Peptides Identification; Jia-Ming Meng¹; Ji-Li Yin¹; Zhen-Lin Chen¹; Sheng-Bo Fan¹; Yan-Jie Wu¹; Hao Chi¹; <u>Chao Liu</u>¹; Si-Min He¹; ¹ICT, CAS, Beijing, China

8:30-10:30 am Tuesday QUANTITATIVE ANALYSIS IN DRUG DISCOVERY AND DEVELOPMENT

Petia Shipkova (Bristol Myers Squibb) 500 Ballroom level 1

TOB am 08:30

Identification Of Contamination Of Skin Tissues Using Quantitative Mass Spectrometry Imaging; Raphael Legouffe¹; <u>Stefan Linehan</u>²; David Bonnel¹; Jonathan Stauber¹; <u>Imabiotech, Loos, France</u>; <u>ImaBiotech Corp, Billerica, MA</u>

TOB am 08:50

Pharmacokinetic and MALDI-MSI Assessment of Orally Active Analgesic Cyclopeptides and Related Therapeutics Built on the Cyclotide Scaffold; Aaron G Poth¹; Brett R Hamilton²; Yen-Hua Huang¹; Francis C K Chiu³; Thao T Le¹; Meng-Wei Kan¹; Michelle L Colgrave⁴; Susan A Charman³; Deon J Venter²; David J Craik¹; ¹Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia; ²Mater Hospital, Brisbane, Australia; ³Centre for Drug Candidate Optimisation, Monash Institute of Pharmaceutical Sciences, Monash University, Parkeville, Australia; ⁴CSIRO, Agriculture Flagship, St Lucia, Australia

TOB am 09:10

Quantification of Anticancer Drug in Live Single Cancer Cells using the Single-probe Device; Ning Pan¹; Shawna Standke¹; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK

TOB am 09:30

Important Considerations for LC/MS-based Analysis of Tissue Distributions of Therapeutic Monoclonal Antibody; Bo An¹; Ming Zhang¹; Jun Qu¹; Yang Qu¹; ¹SUNY at Buffalo, Buffalo, NY

TOB am 09:50

Development of Quantitative Mass Spectrometry Assays for Species-matched Surrogate Antibody Fragments in Ocular Matrices; Hilda Hernandez-Barry¹; Robert F Kelley²; Devin Tesar²; Whitney Shatz²; Laetitia Comps-Agrar²; Joyce Chan²; Keyang Xu²; Luna Liu²; Yanqiu Liu²; Mauricio Maia²; Kelly Loyet²; ¹Genentech, South San Francisco, CA; ²Genentech, Inc, South San Francisco, CA

TOB am 10:10

Cross Platform Comparison of HRMS Instrumentation for Intact Quantitation of Biotherapeutics for PK Analysis; Lisa A. Vasicek¹; Alex ZHU²; Daniel S. Spellman¹; Kevin Bateman¹; ¹Merck Reseach Labs, West Point, PA; ²Agilent Technologies, Wilmington, DE

8:30-10:30 am Tuesday
QUALITATIVE AND QUANTITATIVE ANALYSIS OF POSTTRANSLATIONAL MODIFICATIONS
Wei-Jun Qian (PNNL)
Sagamore 1-3 level 2

TOC am 08:30

Determination of Absolute Phosphorylation Stoichiometry in Human Cells by Motif-targeting Quantitative Proteomics; Chia-Feng Tsai¹.²; Yen-Chen Liao¹.³; Yi-Ting Wang¹; Pei-Yi Lin¹; Miao-Hsia Lin¹; Alexey I. Nesvizhskii⁴; Yasushi Ishihama²; Yu-Ju Chen¹.³; ¹Institute of Chemistry, Academia Sinica, Taipei, Taiwan; ²Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan; ³Department of Chemistry, National Taiwan University, Taipei, Taiwan; ⁴Department of Computational Medicine and Bioinformatics and Department of Pathology, University of Michigan Medical School. Ann Arbor. MI

TOC am 08:50

Targeted Dissection of Cellular Signaling Pathways by Simultaneous TOMAHAQ on Peptides and Phosphopeptides; Brian K. Erickson¹; Devin Schweppe¹; Joao A Paulo¹; Alison R Erickson¹; Jeffery Knott²; Steven P Gygi¹; ¹Harvard Medical School, Boston, MA; ²Cell Signaling Technologies, Danvers, MA

TUESDAY MORNING ORAL SESSIONS

TOC am 09:10	Multiplexed Kinase Pathway Monitoring using Phosphoproteomics of Effector Transcription Factors; Alexander Federation ¹ ; Sandi Spencer ² ; James Bollinger ² ; John Stamatoyannopoulous ¹ , ² ; Michael J MacCoss ² ; ¹ Altius Institute, Seattle, WA; ² University of Washington Genome Sciences, Seattle, WA	TOD am 10:10	and Non-targeted Analysis Methods and Tools at the U.S. Environmental Protection Agency; Elin M. Ulrich ¹ ; Jon R. Sobus ¹ ; Antony J. Williams ² ;
TOC am 09:30	A Dynamic Picture of the Ubiquitinome upon Proteasome Inactivation; Jeroen AA Demmers¹; Karen A Sap¹.²; Lennart van der Wal¹; Karel Bezstarosti¹; Dick HW Dekkers¹; Olaf Voets¹; Erikjan Rijkers¹; ¹Erasmus University Medical Center, Rotterdam; ²Academic Medical Center Amsterdam, Amsterdam, Netherlands		Andrew D. McEachran ³ ; Mark J. Strynar ¹ ; Ann M. Richard ² ; Christopher M. Grulke ² ; Seth R. Newton ¹ ; ¹ U.S. Environmental Protection Agency, National Exposure Research Laboratory, Research Triangle Park, NC; ² U.S. Environmental Protection Agency, National Center for Computational Toxicology, Research Triangle Park, NC; ³ ORISE Research
TOC am 09:50	Site-specific Mapping of the Human SUMO Proteome Reveals Crosstalk with other Post- Translational Modifications; Ivo Hendriks ¹ ; David Lyon ¹ ; Clifford Young ¹ ; Lars J Jensen ¹ ; Alfred CO Vertegaal ² ; Michael L Nielsen ¹ ; *Inovo Nordisk Foundation Center for Protein Research, København; *2Leiden University Medical Center, Leiden		Participant, U.S. Environmental Protection Agency, National Center for Computational Toxicology, Research Triangle Park, NC 8:30-10:30 am Tuesday MACROMOLECULAR COMPLEXES Brian Chait (Rockefeller University)
TOC am 10:10	Proteome-wide Analysis of S-acylation Reveals Widespread Occurrence in Human Cells; Bo Zhou¹; Yiwu Yan¹; Michael R Freeman¹; Wei Yang¹; ¹Cedars-Sinai Medical Center, Los Angeles, CA 8:30-10:30 am Tuesday	TOE am 08:30	Sagamore 5-7 level 2 Data-driven Discovery and Validation of Human Protein Complexes via Proteome-scale Affinity-Purification Mass Spectrometry Profiling; Edward L. Huttlin¹; Raphael J. Bruckner¹; Gabriela Zarraga¹; Joe R. Cannon¹; Lily Ting¹; Spyros
	SOMICS: TARGETED, UNTARGETED AND BIOINFORMATICS METHODOLOGIES John Bowden (NIST)		Artavanis-Tsakonas ² ; J. Wade Harper ¹ ; Steve Gygi ¹ ; ¹ Harvard Medical School, Boston, MA; ² Biogen, Cambridge, MA
TOD am 08:30	Sagamore 4 level 2 Integrated Mass Spectrometry-based Methods to Characterize Electronic Cigarette Exposure in Humans; Romel P. Dator ¹ ; Laura Maertens ¹ ; Andrea Carra ¹ ; Peter W. Villalta ¹ ; Silvia Balbo ¹ ; **Iuniversity**	TOE am 08:50	Mapping the Liver Interactome; Mark Larance ¹ ; Michele Tiniti ² ; Michael Ferguson ² ; Angus Lamond ² ; ¹ The University of Sydney, Camperdown, Australia; ² University of Dundee, Dundee, UK Dynamics of the Mitochondrial Interactome;
TOD am 08:50	of Minnesota, Minneapolis, MN High-coverage Metabolomic Analysis of One Microliter of Blood Using Two Isotope Labelings and High-resolution LC-MS; Wei Han¹; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada		James Bruce ¹ ; Juan D. Chavez ¹ ; Devin K. Schweppe ¹ ; Xuefei Zhong ¹ ; Chi Fung Lee ¹ ; Arianne Caudal ¹ ; Rudy Stuppard ¹ ; Philip A. Kramer ¹ ; Matthew D. Campbell ¹ ; David J. Marcinek ¹ ; Rong Tian ¹ ; ¹ University of Washington, Seattle, WA
TOD am 09:10	Exposure Characterization of Pesticides through Untargeted Investigation of the Urinary Exposome; Emilien L Jamin ^{1, 2} ; Adéline Delcambre ^{1, 2} ; Jean-François Martin ^{1, 2} ; Nathalie Bonvallot ³ ; Emmanuelle Kesse-Guyot ⁴ ; Jean-Pierre Cravedi ¹ ; Laurent Debrauwer ^{1, 2} ; ¹ Toxalim (Research Centre in Food Toxicology), Toulouse University, INRA, ENVT, INP-Purpan, UPS, Toulouse, France; ² INRA,	TOE am 09:30	Endogenous Interactome of the Transcription Regulator HCF-1 Reveals Transcription Elongation as Driver of herpesvirus Reactivation from Latency; Pierre M Jean Beltran ¹ ; Roberto Alfonso-Dunn ² ; Anne-Marie W Turner ² ; Jesse H Arbuckle ² ; Hanna G Budayeva ¹ ; Thomas M Kristie ² ; Ileana Cristea ¹ ; ¹ Princeton Universitry, Princeton, NJ; ² NIH, Bethesda, MD
	Platform MetaboHub-MetaToul-AXIOM, Toulouse, France; ³ EHESP – School of Public Health, Rennes – Sorbonne Paris Cité, Rennes, France; ⁴ Sorbonne Paris Cité Epidemiology and Statistics Research Center (CRESS), Nutritional Epidemiology Research Team (EREN), Inserm U1153, INRA U1125, Cnam, Paris13 University, Paris5 University, Paris7 University, Paris, France	TOE am 09:50	High Resolution Mass Measurements Reveal Heterogeneity in Intact Ribosomal Particles; Michiel van de Waterbeemd¹; Kyle L Fort¹; Dmitriy Boll²; Maria Reinhardt-Szyba²; Andrew Routh³; Alexander Makarov²; Albert J R Heck¹; ¹Utrecht University, Utrecht, Netherlands; ²Thermo Fisher Scientific, Bremen, Germany; ³University of Texas Medical Branch, Galveston, TX
TOD am 09:30	Gas Chromatography with Orbitrap-based High-Resolution Mass Spectrometry for Untargeted Profiling of the Human Exposome; Douglas I. Walker ^{1,2} ; Yongliang Liang ¹ ; Annette M. Esper ¹ ; Greg S. Martin ¹ ; Gary W. Miller ² ; Dean P. Jones ^{1,2} ; *1Division of Pulmonary, Allergy and Critical Care Medicine, Department of Medicine, Emory University, Atlanta, GA; *2HERCULES Exposome Research Center, Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA	TOE am 10:10	Charge Detection Mass Spectrometry Reveals Details of Hysteresis in Virus Capsid Disassembly; Corinne Lutomski ¹ ; Nicholas Lyktey ² ; Joseph Che-Yen Wang ² ; Zhongchao Zhao ² ; Adam Zlotnick ² ; Martin Jarrold ² ; *Indiana University, Bloomington , IN; *Indiana University, Bloomington, IN 8:30-10:30 am Tuesday ION MOBILITY: STRUCTURE Carlos Larriba-Andaluz (IUPUI) Wabash level 1
TOD am 09:50	Building a Library with >1000 Ion Mobility Collision Cross Sections for Ultrafast Small Molecule Analyses; <u>Xueyun Zheng</u> ¹; Noor A.	TOF am 08:30	Direct Observation of Intermediates and Structurally Distinct Products Associated with Protein Melting Transitions by Ion Mobility

TUESDAY MORNING ORAL SESSIONS

The second secon			
	Spectrometry-Mass Spectrometry; <u>Tarick</u> <u>El-Baba</u> ¹ ; Daniel W Woodall ¹ ; Daniel R Fuller ¹ ; Shannon A Raab ¹ ; Wen Liu ² ; Yang Liu ² ; Arthur Laganowsky ² ; David H Russell ² ; David E Clemmer ¹ ; Undiana University Plannington IN ² Texas ARM		Lippert ¹ ; Timo Dickel ^{1, 2} ; Samuel Ayet San Andres ^{1, 2} ; Julian Bergmann ¹ ; Hans Geissel ^{1, 2} ; Johannes Lang ¹ ; Christoph Scheidenberger ^{1, 2} ; Wolfgang Schrader ³ ; Alessandro Vetere ³ ; Mikhail Yavor ⁴ ; Alessandro Vetere ³ ; Mikhail Yav
TOF am 08:50	¹Indiana University, Bloomington, IN; ²Texas A&M University, College Station, TX Effect of Time, Temperature and Humidity on Gas Phase Protein Structure; Juan Fernandez de la Mora ¹; Michel Attoui²; ¹Yale University -		¹ Justus Liebig University Giessen, Giessen, Germany; ² GSI Helmholtz Centre for Heavy Ion Research, Darmstadt, Germany; ³ Max-Planck- Institut für Kohlenforschung, Mülheim an der Ruhr, Germany; ⁴ Institute for Analytical Instrumentation,
	Mechanical Engineering Departmen, New Haven , CT; ² University Paris-Est Creteil, University Paris-	TOG am 09:30	St. Petersburg, Russia Measuring Collisional Cross Sections of
TOF am 09:10	Diderot, Paris, France Structural Dynamics of Native-like Ions: Results from Tandem Ion Mobility and Mass Spectrometry; Samuel J. Allen¹; Rachel M. Eaton¹;		Individual Ions with Charge Detection Mass Spectrometry; Andrew G. Elliott¹; Conner C. Harper¹; Haw-Wei Lin¹; Evan R. Williams¹; ¹University of California, Berkeley, Berkeley, CA
	Matthew F. Bush ¹ ; ¹ University of Washington, Department of Chemistry, Seattle, WA	TOG am 09:50	Phase-coherent Ion Dispersion in Non-linear Electric Fields Enables FT-ICR MS at the
TOF am 09:30	ORIGAMI: A Software Package for Data Acquisition and Analysis of Ion Mobility		Cyclotron Frequency; Konstantin O. Nagornov ¹ ; Edith Nicol ² ; Anton N. Kozhinov ¹ ; Yury O. Tsybin ¹ ;
	Collision Induced Unfolding Data from Multimeric Protein Assemblies; Lukasz G. Migas¹; Aidan France¹; Bruno Bellina¹; Kamila J. Pacholarz¹;	TOG am 10:10	¹ Spectroswiss Sàrl, Lausanne, Switzerland; ² Ecole Polytechnique, Palaiseau, France Extension of Orbitrap Capabilities to Enable
	Perdita E. Barran¹; ¹University of Manchester, Manchester, UK	100 am 10.10	New Applications; Alexander Makarov¹; Erik Cousijn¹; Jesse Canterbury²; Eduard Denisov¹;
TOF am 09:50	The Reversible Coulombic-driven (un)Folding of Oligorotaxane Switches Probed by Ion Mobility Mass Spectrometry and Molecular Dynamics;		Christian Thoeing¹; Oliver Lange¹; Arne Kreutzmann¹; Konstantin Ayzikov¹; Eugen Damoc¹; Arrey Tabiwang¹; Yue Xuan¹; Seema Sharma²; Romain Huguet²;
	Emeline Hanozin¹; Benoit Mignolet²; Denis Morsa¹; Damien Sluysmans³; Anne-Sophie Duwez³; Fraser Stoddart⁴; Françoise Remacle²; Edwin De		Graeme McAlister ² ; Mike Senko ² ; Vlad Zabrouskov ² ; Alexander Harder ¹ ; ¹ Thermo Fisher Scientific, Bremen, Germany; ² ThermoFisher, San Jose, CA
	Pauw¹; ¹Mass Spectrometry Laboratory, Liège, Belgium; ²Theoretical Physical Chemistry, Liège,		8:30-10:30 am Tuesday
	Belgium; ³ Nanochemistry and Molecular Systems, Liège, Belgium; ⁴ Mechanostereochemistry Group,		INDAMENTALS: ION SPECTROSCOPY enne Garand (University of Wisconsin)
	Evanston, IL		Room 107-110 level 1
TOF am 10:10	Conformational Sampling of GHRH 1-29 Peptide Analogs using CIA-TIMS-MS; Kevin Jeanne Dit Fouque ¹ ; Luis M. Salgueiro ² ; Renzhi Cai ² ; Wei Sha ² ;	TOH am 08:30	Water Microsolvation Switches the Binding Mode of Ni(II)Triglycine From Iminol to Charge- Solvation; Robert C. Dunbar ¹ ; Jonathan K.
	Andrew V. Schally ² ; Francisco A. Fernandez-Lima ¹ ; ¹ Department of Chemistry and Biochemistry, Florida		Martens ² ; Giel Berden ² ; Jos Oomens ^{2, 3} ; ¹ Case Western Reserve Univ, Cleveland, OH; ² Radboud
	International University, Miami, FL; ² University of Miami School of Medicine/VA Medical Center,	TOH am 08:50	University, Nijmegen; ³ University of Amsterdam, Amsterdam, Netherlands The Molecular Structure of Electron Transfer
	Department of Pathology and Department of Medicine, Divisions of Hematology/Oncology and Endocrinology and Sylvester Comprehensive	TOH alli 00.30	Dissociation Product Ions Investigated using Infrared Ion Spectroscopy; Lisanne Kempkes ¹ ;
	Cancer Center, Miami, FL		Jonathan Martens ¹ ; Giel Berden ¹ ; Jos Oomens ¹ ; ¹ FELIX Facility, Radboud University, Netherlands
INSTRUM	8:30-10:30 am Tuesday ENTATION: MASS ANALYZER INNOVATIONS Ryan Danell (Danell Consulting)	TOH am 09:10	Analysis of Perfluorocarbons Compounds (PFCs), Potent Greenhouses Gases by Action Spectroscopy; Suzie Douix¹; Héloïse Dossmann²;
TOG am 08:30	Room 101-106 level 1 Twisted Dual-field Multipole Converging		Laurent Nahon ¹ ; Alexandre Giuliani ³ ; ¹ Synchrotron Soleil, Saint Aubin, France; ² Université Pierre et
100 am 00.50	Ion Guides: Achieving High Performance in Tandem Mass Spectrometers with Reduced		Marie Curie, Paris, France; ³ Institutal National de la Recherche Agronomique, Paris, France
	Size; Haopeng Wang ¹ ; Laura L. Pollum ¹ ; Kenneth R. Newton ¹ ; James L. Bertsch ¹ ; Shane E. Tichy ¹ ; ¹ Agilent Technologies, Santa Clara, CA	TOH am 09:30	The Structure of the Anionic Serine Octamer; Jongcheol Seo ¹ ; Stephan Warnke ¹ ; Kevin Pagel ¹ , ² ; Michael T. Bowers ³ ; <u>Gert von Helden</u> ¹ ; ¹ Fritz-
TOG am 08:50	Stimulated Motion Suppression (STMS): A New Approach to Break the Resolution barrier for Ion Trap Mass Spectrometry; Xiaoyu Zhou¹; Xinwei Liu¹; Wenbo Cao¹; Ang Li²; Xiao Wang³; Zheng		Haber-Institut der Max-Planck-Gesellschaft, Berlin, Berlin; ² Freie Universität Berlin, Berlin, Germany; ³ University of California Santa Barbara, Santa Barbara, CA
	Ouyang ^{1, 3, 4} ; ¹ Department of Precision Instrument, Tsinghua University, Beijing, China; ² PurSpec Technologies Inc, Beijing, China; ³ Weldon School of Biomedical Engineering, Purdue University, West	TOH am 09:50	Conformation-Specific Infrared and Ultraviolet Spectroscopy of Cold [YAPAA+H]+ and [YGPAA+H]+ lons: A Stereochemical "Twist" on the β-Hairpin Turn; Andrew DeBlase ¹ ; Christopher
TOG am 09:10	Lafayette, IN; *Department of Chemistry, Purdue University, West Lafayette, IN (Ultra-)High Resolution Multiple-Stage Tandem Mass Spectrometry (MS^N) in A Time-of-Flight		P Harrilal ² ; John T Lawler ² ; Nicole L Burke ² ; Scott A McLuckey ² ; Timothy S Zwier ² ; ¹ Purdue University, West Lafayette, IN; ² Purdue University, West Lafayette, IN
	Mass Spectrometer; Wolfgang R Plaß ^{1, 2} ; Wayne		

TUESDAY MORNING ORAL SESSIONS



TOH am 10:10 Combining Mass Spectrometry, Ion Mobility and Cryogenic Ion Spectroscopy for Structural Assignment of Oligosaccharides; Chiara_
Masellis¹; Neelam Khanal²; David E Clemmer²; Michael Z. Kamrath¹; Thomas R. Rizzo¹; ¹EPFL, Lausanne, Switzerland; ²Indiana University, Bloomington, IN

10:30 am-2:30 pm Tuesday TUESDAY POSTER SESSION Poster/Exhibit Hall

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

Odd-number posters present 10:30 am-1:00 pm

Even-number posters present 12:00-2:30 pm

TUESDAY AFTERNOON ORAL SESSIONS

TOA pm 02:30	2:30-4:30 pm Tuesday INFORMATICS: METABOLOMICS XiuXia Du (UNC Charlotte) Hall D level 1 Towards a Comprehensive Virtual Research Infrastructure for Large-scale Processing of Metabolomics Data and Analysing Medical Metabolic Phenome Data; Thomas Hankemeier¹; Michael S van Vliet¹; Amy C Harms¹; Alberto Pasamontes Funez¹; Merlijn van Rijswijk²; Steffen Neumann³; Ola Spjuth⁴; Etienne Thevenot⁵; Fabien Jourdan⁶; Tim Ebbels⁻; Robert Glen⁻; Susanna-	TOB pm 02:50	High Resolution Approaches for the Identification of Environmental Metabolites; Jeffrey Gilbert¹; Jesse L. Balcer¹; Yelena Adelfinskaya¹; David G. McCaskill¹; Shusheng Lu¹; Kyung Myung¹; Pete Johnson¹; ¹Dow AgroSciences, Indianapolis, IN A Novel Screening Workflow using Ion- Mobility-Mass Spectrometry for the Analysis of Extractable and Leachable Components from Common Packaging Material; Jane Cooper¹; Oliver Burt¹; Baiba Cabovska²; Chris Stumpf²; ¹Waters Corp., Wilmslow, UK; ²Waters Corp, Milford,
	Assunta Sansone ⁸ ; Christoph Steinbeck ⁸ ; ¹ Leiden University, Leiden, Netherlands; ² Netherlands Metabolomics Centre, Utrecht, Netherlands; ³ Leibniz Institute for plant Biochemistry, Halle (Saale), Germany; ⁴ Uppsala University, Uppsala, Sweden; ⁵ CEA Saclay, Gif-sur-Yvette, France; ⁶ INRA, Platform MetaboHub-MetaToul-AXIOM, Toulouse, France; ⁷ Department of Surgery and Cancer, Imperial College, London, LIK; ⁸ Outand of Responsible Control Oxford, LIK; ⁸ Outand of	TOB pm 03:30 TOB pm 03:50	Identification and Relative Quantitation of Oxytocin Degradation Products under Accelerated Stress conditions using Liquid Chromatography-high Resolution Mass Spectrometry (LC-HRMS); Jinhui Zhang¹; Ahmed Zidan¹; Patrick J Faustino¹; ¹FDA, Silver Spring, MD An Alternate Approach to the Control of Polio Vaccine and Reference Standards using
TOA pm 02:50	London, UK; [®] Oxford e-Research Centre, Oxford, UK; [®] EMBL-EBI, Cambridge, Cambridgeshire Hybrid Search: A Library-based Method for Identifying Metabolites Not in Tandem Mass Spectrometry Libraries; Brian T. Cooper ^{1, 2} ; Stephen E. Stein ² ; Xinjian Yan ² ; Yamil Simón-Manso ² ; Dmitrii V. Tchekhovskoi ² ; Yuri A. Mirokhin ² ; ¹ UNC Charlotte, Charlotte, NC; ² NIST, Gaithersburg, MD	TOB pm 04:10	Vaccine and Reference Standards using Quantitative Proteomics; Terry D. Cyr¹; Marybeth Creskey¹; Diane Viel¹; Tong Wu¹; **Health Canada, Ottawa, ON, Canada A Unifying, Informatics-Based Approach to Life Cycle Management of Impurity Data in Pharmaceutical Development; Albert Van Wyk¹; Desite Mitaushou²; Dett Kondelou²; Crehem A
TOA pm 03:10	Development of an Expert System to Enhance Gas Chromatography-Mass Spectrometry-Based Metabolite Identification; Feng Qiu'; Zhentian Lei'; Lloyd W. Sumner'; *1*University of Missouri, Columbia,		Dmitry Mityushev ² ; Petr Kandalov ² ; <u>Graham A.</u> <u>McGibbon</u> ¹ ; Andrew A. Anderson ¹ ; ¹ ACD/Labs, Toronto, ON, Canada; ² ACD Ltd., Moscow, Russia 2:30-4:30 pm Tuesday
	MO	QUANTIT	TATIVE PROTEOMICS IN SYSTEMS BIOLOGY
TOA pm 03:30	Enhancing Computational Tools for Automated		Brad Ackerman (Eli Lilly & Co.)
•	Ion Mobility-Mass Spectrometry-Based		Sagamore 1-3 level 2
	Small Molecule Workflows and Improved	TOC pm 02:30	Quantitative Mass Spectrometry Analysis of
	Multidimensional Analyses; Aivett Bilbao1; Xueyun		PD-L1 Protein Expression, N-glycosylation and
	Zheng¹; Bryson C. Gibbons¹; Ed Darland²; Emma E.		Expression Stoichiometry with PD-1 and PD-L2
	Rennie ² ; Richard D. Smith ¹ ; Erin S. Baker ¹ ; Thomas		in Human Melanoma; Carlos Morales-Betanzos ¹ ;
	O. Metz ¹ ; John Fjeldsted ² ; Samuel H. Payne ¹ ;		Hyoungjoo Lee ¹ ; Paula I. Gonzalez-Ericsson ¹ ; Justin
	¹ Earth and Biological Sciences Directorate, Pacific Northwest National Laboratory, Richland, WA; ² Agilent Technologies, Santa Clara, CA		M. Balko¹; Douglas B. Johnson¹; Lisa J. Zimmerman¹; <u>Daniel C. Liebler</u> ¹.²; ¹Vanderbilt University, Nashville, TN; ²Protypia, LLC, Brentwood, TN
TOA pm 03:50	A Cellular Dashboard for Graphical Analysis of	TOC pm 02:50	A Method for Spatially and Temporally Resolving
	Metabolomics Data; Peter Karp ¹ ; Suzanne Paley ¹ ;		G Protein-coupled Receptor Protein Interaction
	Paul O'Maille1; 1SRI International, Menlo Park, CA		Networks in Living Cells; Ruth Huttenhain ^{1, 2} ;
TOA pm 04:10	Untargeted Metabolomics Suffers from		Braden T. Lobingier ¹ ; Kelsie Eichel ¹ ; Alice Y. Ting ³ ;
	Incomplete Data Analysis; Richard Baran; Baran		Mark Von Zastrow ¹ ; Nevan J. Krogan ^{1,2} ; ¹ UCSF, San
	Bioscience, LLC, Berkeley, CA		Francisco, CA; ² Gladstone Institutes, San Francisco, CA; ³ Stanford University, Stanford, CA
	2:30-4:30 pm Tuesday	TOC pm 03:10	Systems Biology and Quantitative Proteomics
MS	IN THE REGULATORY ENVIRONMENT	100 piii 00.10	Approaches to Studies of Mitochondrial
	Whitney Stutts (FDA)		Dysfunction for the Discovery of Friedreich's
	500 Ballroom level 1		Ataxia Biomarkers; <u>Ian A. Blair</u> 1; Qingqing Wang1;
TOB pm 02:30	Accurate Mass Fragment Library of Nootropic		Lili Guo ² ; Liwei Weng ² ; Ashkan Salamtipour ¹ ; David
	Compounds using DART-HRAM-MS; Sara Kern ¹ ;		R. Lynch ^{3, 4} ; Clementina Mesaros ² ; ¹ Penn SRP
	Valerie M. Toomey¹; Lisa M. Lorenz¹; Jonathan		Center and Center of Excellence for Environmental
	J. Litzau ¹ ; ¹ USFDA Forensic Chemistry Center,		Toxicology, University of Pennsylvania, Philadelpha,
	Cincinnati, OH		PA; ² Penn SRP Center and Center of Excellence

TUESDAY AFTERNOON ORAL SESSIONS

TOC pm 03:30	in Environmental Toxicology, University of Pennsylvania, Philadelphia, PA; ³ Department of Neurology, Chidren's Hospital of Philadelhia, Philadelphia, PA; ⁴ Department of Pediatrics, University of Pennsylvania, Philadelpha, PA Relative Merits of Large-Scale Networks Generated by Quantitative Protein Expression Correlation and Affinity Purification – Mass Spectrometry; David Nusinow ¹ ; John Szpyt ² ; Christopher Rose ² ; Mahmoud Ghandi ³ ; Edward L Huttlin ² ; Levi A Garraway ³ . ⁴ ; Steven P Gygi ² ; ¹ Harvard Medical School, Boston, MA; ² Harvard Medical School, Boston, MA; ³ Broad Institute of MIT and Harvard, Cambridge, MA; ⁴ Dana Farber Cancer	TOD pm 04:10	A New On-line Single-particle Laser Mass Spectrometer for Detection of Polyaromatic Hydrocarbons and Inorganic Constituents from the Same Individual Particles; Ralf Zimmermann¹-²; Johannes Passig¹-²; Julian Schade¹; Matthias Fuchs²; Markus Oster²; Cornelia Jäger³; Martin Sklorz¹; ¹Joint Mass Spectrometry Centre, University of Rostock, Chair of Analytical Chemistry, Rostock, Germany; ²Joint Mass Spectrometry Centre / Cooperation Group Comprehensive Molecular Analytics, Helmholtz Zentrum München, Neuherberg, Germany; ³3Astrophysics and Cluster Physics Group, University Jena, Jena, Germany
TOC pm 03:50	Institute, Boston, MA Defining the Cross-talk between Signaling Pathways and Chromatin Modifications Occurring during Treatment of Acute Myeloid Leukemia; Simone Sidoli¹; Pamela J. Sung¹; Katarzyna Kulej¹.²; Martin Carroll¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²The Children's Hospital of Philadelphia, Philadelphia, PA	COVALEN TOE pm 02:30	2:30-4:30 pm Tuesday T LABELING AND CHEMICAL CROSSLINKING Yinsheng Wang (UC Riverside) Sagamore 5-7 level 2 Protein Footprinting Probes the Protein- Membrane Interactions of Nanodisc- incorporated KRAS4b-FME; Ben Niu¹; Don L. Rempel¹; Xiaoying Ye².³; Que Van².³; Andrew G. Stephen².³; Michael L. Gross¹; ¹Washington
TOC pm 04:10	Identification of Phosphoprotein and Phosphoprotein Networks Linked to Spine Loss in Schizophrenia; Matthew L Macdonald¹; Megan Garver¹; Ying Ding¹; Harris Bell-Temin¹; David A Lewis¹; Robert Sweet¹; Nathan A Yates¹; ¹University of Pittsburgh, Pittsburgh, PA	TOE pm 02:50	University, St Louis, MO; ² Frederick National Laboratory for Cancer Research, Frederick, MD; ³ Leidos Biomedical Research, Inc., Frederick, MD Mass Spectrometric Analysis of UV and Chemical protein-DNA Cross-links in a Chromatin Model; Alexandra Stützer¹; Christin Kappert¹; Aleksandar Chernev¹; Katharina Mucek¹;
	2:30-4:30 pm Tuesday TAL: NEW INSTRUMENTATION AND APPROACHES Kerri Pratt (University of Michigan) Sagamore 4 level 2		Katharina Kramer ² ; Timo Sachsenberg ³ ; Oliver Kohlbacher ³ ; Wolfgang Fischle ¹ ; <u>Henning Urlaub</u> ¹ ; ¹ Max Planck Institute for Biophysical Chemistry, Goettingen, Germany; ² Max Planck Institute for
TOD pm 02:30	Untargeted Profiling of Soil Metal-metabolites by LC-ICPMS-ESIMS Reveals Plant-microbe Interactions; Rene Boiteau ¹ ; Jared B Shaw ² ; Ljiljana Pasa-Tolic ² ; ¹ Pacific Northwest National Lab, Richland, WA; ² Pacific Northwest National Lab,	TOE pm 03:10	Plant Breeding Research, Cologne, Germany; ³ Universität Tübingen, Tübingen, Germany The Structure of a Complete Mediator-RNA Polymerase II Preinitiation Complex Determined by Electron Microscopy and Crosslinking Mass
TOD pm 02:50	Richland, WA Rapid Concomitant Analysis of Pharmaceuticals in Environmental Waters by Coated Blade Spray (CBS)-Mass Spectrometry; Justen J Poole ¹ ; German A Gómez-Ríos ¹ ; Ezel Boyaci ¹ ; Nathaly Reyes Garces ¹ ; Janusz Pawliszyn ¹ ; 'University of	TOE pm 03:30	Spectrometry; Michael Trnka¹; Philip J Robinson²; Roger D Kornberg²; Alma L Burlingame¹; ¹UCSF, San Francisco, CA; ²Stanford University School of Medicine, Stanford, CA Charting the Human Nuclear Protein-protein Interaction Landscape through Cross-linking
TOD pm 03:10	Waterloo, Waterloo, ON, Canada Detection of Volatile Disinfection By-products from Indoor Swimming Pools using a Portable GC/MS System; Douglas Martins ¹ ; Leonard Rorrer ¹ ; Mitch Wells ¹ ; Philip Tackett ¹ ; Ernest Blatchley ^{2, 3} ; ¹ FLIR Detection, INC, West Lafayette, IN; ² Lyles School of Civil Engineering, West Lafayette, IN; ³ Division of Environmental and Ecological Engineering, Purdue University, West Lafayette, IN	TOE pm 03:50	Mass Spectrometry; Domenico Fasci¹; Richard A. Scheltema¹; Albert J. R. Heck¹; ¹Utrecht University, Utrecht Integrative Structural Proteomics of the Native Nuclear Pore Complex; Yi Shi¹; Javier Fernandez-Martinez²; Seung Joong Kim³; Paula Upla⁴; Riccardo Pellarin³; Michael Gagnon⁵; Ilan Chemmama³; Junjie Wang²; Ilona Nudelman²; Wenzhu Zhang²; Rosemary Williams²; William Rice⁴; David L Stokes⁴;
TOD pm 03:30	Liquid Overflow Capture Electrospray Ionization for the On-line Analysis of Aerosol Particles; Kenneth D. Swanson ¹ ; Anne L. Worth ¹ ; Gary L. Glish ¹ ; ¹ University of North Carolina at Chapel Hill,		Daniel Zenklusen ⁵ ; Andrej Sali ³ ; Micheal P Rout ² ; Brian T Chait ² ; ¹ University of Pittsburgh School of Medicine, Pittsburgh, PA; ² The Rockefeller University, New York, NY; ³ University of San
TOD pm 03:50	Chapel Hill, NC Real-time Molecular Analysis of Atmospheric Aerosols by Extractive Electrospray Ionization Time-of-Flight Mass Spectrometry (EESI- TOFMS); Felipe D Lopez-Hilfiker ^{1, 2} ; Veronika Pospisilova ² ; Josef Dommen ² ; Joel R. Kimmel ^{1, 3} ; Andre Prevot ² ; Urs Baltensperger ² ; Jay G. Slowik ² ; ¹ TOFWERK, Thun, Switzerland; ² Paul Scherrer Institute (PSI), Villigen, Switzerland; ³ Aerodyne Research, Inc, Billerica, MA	TOE pm 04:10	Francisco, San Francisco, CA; ⁴ New York University School of Medicine, New York, NY; ⁵ University of Montréal, Montréal, Québec Developing an Integrated Multiplexed Quantitative Cross-linking Mass Spectrometry Platform to Determine Composition-dependent Conformational Changes of Protein Complexes; Craig Gutierrez¹; Haibin Mao²; Clinton Yu¹; Alexander Huszaugh³; Rosa Viner⁴; Eric Novitsky³; Scott Rychnovsky³; Ning Zheng²; Lan Huang³; ¹ University of California, Irvine, Irvine, CA;

TUESDAY AFTERNOON ORAL SESSIONS



TUESDAY AFTERNOON ORAL SESSIONS

4:45-5:30 pm Tuesday AWARD LECTURE Vicki Wysocki (The Ohio State University) Hall D level 1

Presentation of the Research Awards

 Award sponsored by Thermo Scientific by Iain Mylchreest to Peter Nemes (George Washington University). Award sponsored by Wasters Corporation by Lance Nicolaysen to Abraham Badu-Tawiah (The Ohio State University).



Biemann Medal

Ryan Julian University of California, Riverside

5:45 - 7:00 PM TUESDAY WORKSHOPS

There are light refreshments in common areas.

01. Trans-Proteomic Pipeline:
New Advances and Future Developments
Presiding: Luis Mendoza, Michael Hoopmann, Eric Deutsch
Room 130

The workshop will begin with a brief overview of the open-source Trans-Proteomic Pipeline (TPP) and its newest features and capabilities. We will then focus on 5 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: cross-linking analysis, integrating de novo, spectral library, and sequence database searching approaches, proteomics informatics using cloud computing infrastructure such as Amazon Web Services, analysis of post-translational modifications with PTMProphet, and analysis of SWATH-MS data. Each topic will be introduced with a brief summary of features and ideas. Then feedback and discussion by the workshop participants will be promoted.

02. Bioinformatic Approaches for Glycomics/ Glycoproteomics Presiding: Ron Orlando Room 131-132

Glycosylation of proteins is one of the most common protein posttranslational modifications (PTM), and the only PTM that requires structural characterization. The diverse biological roles of glycans have created a demand for bioinformatics tools to identify individual species in the complex mixtures that often include isomeric glycans obtained from biological systems. This problem is compounded by the biosynthesis of glycoprotein glycans not being template driven like the other biopolymers (DNA, RNA, and Proteins). Bioinformatic tools are needed to better identify the roles and attributes of glycan in biological systems. In this workshop, the use of different bioinformatics tools to identify individual glycans/glycopeptides from MS data will be critically described and discussed.

03. Statistics and Bioinformatics using R Presiding: Jeffrey Jones, Ryan Benz Room 133-134

The objectives of this workshop will be to introduce the community to the R statistical programming language, specifically the integrated development environment R studio and a few select package libraries that facilitate data manipulation and plotting, along with presenting a few mass spectrometry relevant examples. We are proposing to structure the workshop around short 5-10 minute micro presentations introducing each subject followed by several minutes of open discussion. The overall goal of this workshop is to gauge the interests of ASMS attendees towards R statistical programming and to get a better understanding of how R can best serve the community.

04. Environmental Analysis: Modern Sampling Techniques and Data Analysis (Environmental Applications Interest Group) Presiding: Marc Engel, Imma Ferrer Achille Cappiello Room 135-136

When modern sampling techniques, both direct and indirect, are used to analyze complex environmental samples challenging data

sets are often generated. Our workshop will focus on the analysis of complex environmental samples and the use of data analysis tools and sampling techniques to generate the highest quality data for unequivocal identification. Three speakers will present 3-5 slides followed by discussion.

05. Hepatocytes: Current and Future Use in DMPK (DMPK Interest Group) Presiding: Philip Tiller, Mark Cancilla Room 137-138

Hepatocytes have become an integral tool in pharmaceutical research. Hepatocytes have been routinely used to generate metabolic stability/intrinsic clearance and metabolite profile data. These assays are conducted using hepatocytes in suspension and have been, and continue to be effective assays, even though they exhibit a cell viability period of up to only 4 hours.

As more of the new chemicals being synthesized exhibit increased metabolic stability, there is a need to extend the hepatocyte incubation period to afford meaningful data. In recent years several approaches have been developed to increase the viable incubation period, such as hepatocyte relay assays, plated and co-cultured human hepatocyte systems, and these have matured, such as HepatoPak from Ascendance (Hepregen), Hurel co-cultured primary hepatocytes, 3D hepatocyte sphereoids (Organovo) and the various hepatocyte relay assays (both suspension and plated). Additional in vitro assays have also been explored with these new tools such as toxicology, transporters and biliary excretion.

Discussion will revolve on how these new hepatocyte-based tools are impacting DMPK workflows, their pros and cons and real-life experience discussions from colleagues who have hands-on experience.

06. The NIH and NSF Review and Funding Process Presiding: Salvatore Sechi, Charles, Edmonds, Douglas Sheeley Room 139

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. A "mock" NIH study section presentation will provide additional insight into the review process and opportunity for discussion with NIH and NSF staff. 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.

07. Proteomic Workflow: Unpublished Collective Practical
Knowledge from Insiders
(Analytical Lab Managers Interest Group)
Presiding: Emily Chen, Allis Chien
Room 140

There is no one-size-fits-all solution to the diversity of proteomic analyses that our labs handle every day. At the same time, we have to

5:45 - 7:00 PM TUESDAY WORKSHOPS



make sensible decisions on what workflows to use, balancing scientific goals and available resources. The wisdom gained through these experiences is crucial to daily operations and consistent high-quality results, yet typically goes unpublished. This unpublished knowledge can help all of us make better decisions when performing proteomic analyses. The 2017 ASMS Analytical Lab Managers' Workshop will be dedicated to sharing these nuggets of practical wisdom. Four segments of proteomic workflows will be covered: sample preparation, liquid chromatography, mass spectrometry, and data analysis. A panel of core lab directors will introduce each topic and initiate discussion. Come join us - contribute your wisdom and learn from others in this collaborative workshop.

08. The Need for Speed: Is your LC or Mass Spectrometer the Top Gun for Improving Throughput? (LCMS & Related Topics Interest Group) Presiding: Erik Soderblom, Will Thompson Room 141-142

In your current analytical workflow, is the mass spectrometer or analytical separation holding you back from higher throughput? With the increasing performance of modern MS instrumentation, including better sensitivity and scan speeds as fast as a few milliseconds, we gain the opportunity to increase either the speed in which analytes are separated prior to MS analysis or the number of analytes that are being simultaneously measured. This workshop will discuss considerations, opportunities and challenges in utilizing the increased performance of modern mass spectrometry instrumentation with various separation strategies while still maintaining quantitative fidelity within an assay. Topics will include emerging separations and MS strategies for improving throughput, with special consideration for multiplexed assay development and the challenges this presents.

09. Tracing Uncertainty in Imaging MS: Benchmarking Reproducibility, Variability, and Performance across Experiments (Imaging MS Interest Group) Presiding: Raf Van de Plas, Reid Groseclose

Room 143-144

Imaging MS is rapidly developing into a powerful molecular imaging modality. During its growth the focus has naturally been on developing new capabilities and increasing performance along the spatial and spectral domains. However, as the technology matures and is applied in fields such as translational medicine, pharmaceuticals, material science, and forensics, it becomes increasingly important to develop a better understanding of the technical variability in the experimental workflow. The need to exercise more advanced control over aspects such as reproducibility, stability, and variability across experiments (e.g. through systematic performance metrics) is steadily emerging across application fields, and robust solutions will be central to the long-term development of imaging MS. Various research groups have addressed the challenge of tracking and eliminating technical variation, and proposed different approaches ranging from sample preparation to instrumental and computational methods.

In this workshop, we will discuss current approaches to benchmarking and controlling reproducibility and variability across experiments. We will also try to identify the most pressing challenges ahead. The workshop will seek insight from the academic and clinical viewpoint in terms of required levels of rigor, and will also invite input from industry and governmental institutions that employ imaging MS in their assays and studies. Ultimately, we aim to discern an overall direction and set of best practices for the field, potentially complemented by a list of major challenges.

10. JASMS - Present Status and Future Presiding: Joe Loo Room 145

This Workshop will discuss the "nuts and bolts" of the operation of JASMS and how manuscripts are handled – from the time a manuscript is first submitted to the time the paper is published in the print journal. The important role of the manuscript reviewers in this process will be highlighted.

11. Biotherapeutics: Hot Topics (Biotherapeutics Interest Group) Presiding: Charles Cheng, Ashley Ruth Room 231-234

This workshop will be a forum to discuss hot topics in the analysis of biotherapeutics by mass spectrometry. Mass spectrometry is now used for biotherapeutic analysis from discovery and throughout product development. Discussion may include a variety of topics, ranging from protein modifications, higher order structure characterization, protein batch comparability and biosimilarity, and biotherapeutic lot release testing. Recent advancements in instrumentation and software for data analysis and reporting may also be discussed based on attendee interest and interest group survey responses.

12. HDX, Covalent Labeling & Cross Linking: State-of-the-Art and Future Directions (HDX Covalent Labeling & Cross Linking Interest Group) Presiding: Lan Huang, David Weis Room 235-238

Following a short organizational meeting, the workshop will provide a forum for discussing hydrogen exchange, covalent labeling, and cross-linking approaches for protein analysis (structure, function, folding, dynamics). A panel of experts will present overviews of these three distinct approaches for MS-based characterization of higher-order protein structure. The overviews will include brief introductions to the general workflows, discussions of the strengths and weaknesses of the approaches, new developments and applications, identification of current challenges, and advice to newcomers on how to enter the fields. In addition, the panel will stimulate discussions about whether different methods can be effectively integrated for comprehensive protein analysis. There will be ample time for questions and answers including an opportunity for novices/students to contribute anonymous questions on fundamentals.

13. Polymer Mass Spectrometry: Advances (Polymeric Materials Interest Group) Presiding: Steve Rumbelow, Christina Mastromatteo Room 239

This workshop will be split into three sections, namely MALDI MS (current practices and approaches to method development), poster presentations and finally an open forum on questions/issues/ developments in polymer analysis.

It will commence with Kevin Owens leading discussions on best practices around running MALDI MS by describing how his team run their systems at Drexel University, covering such areas as day-to-day usage, troubleshooting, method development and other potential issues that users may encounter. Delegates will be encouraged to share their experiences with this technique during this interactive session.

This is to be followed by short forum in which any delegates (particularly students) presenting posters in the Polymers Section at this conference, will be invited to give a short synopsis (no more than 3-5 minutes each) of their posters. The aim is to give these presenters an opportunity to introduce their posters and highlight any new developments or learnings. In order to keep within reasonable time constraints, potential attendees will be canvassed prior to the meeting.

Finally, delegates will be invited to ask questions about any issues with particular applications or techniques that they are either currently working on, or are interested in investigating further. This will include any discussions on shared experiences with various instrumental techniques, through to data interpretation and processing software.

14. Metabolomics: Integration into the Emerging Arena of Multiomic Approaches (Metabolomics Interest Group) Presiding: John Bowden Room 240-242

As the metabolomics field continues to mature, research continues to focus on not only improving metabolite measurement, but also more recently on how to expand application and usefulness of metabolomics data. One such approach is the adaptation of multi-omics. Multi-omics

5:45 - 7:00 PM TUESDAY WORKSHOPS

approaches aim to integrate the results of more than one 'omic' analysis, such as combining metabolomics with genomics or proteomics, in order to improve our understanding of biology. Despite its burgeoning usage, there are several considerations that the metabolomics community must interrogate, such as the potential need for new methodology and data analysis tools that must be developed for improved interpretation of multi-omic results. The experimental design must be revisited, for example, when developing methods that perform multiple omics from a single extract/extraction. Strategies to handle multi-omic data sets need to be developed, along with new ways to perform statistical analysis data and interpretation. Since metabolomics offers the phenotype, providing the most rapid measurement of health status, we need to continue exploring the nexus by which other 'omic' approaches help enhance our understanding of metabolism and more importantly, overall organism health. This workshop will provide an opportunity to discuss these the emerging concept of multi-omics as it pertains to the metabolomics community with a few short (5 min) presentations to spur discussion.

15. Mass Spectrometry and Ion Mobility: The Role of Temperature (Fundamentals Interest Group) Presiding: Michael Van Stipdonk, Victor Ryzhov Room 243-245

Temperature has a significant influence of mass spectrometry and ion mobility experiments. This is true whether considering, for example, the role of effective temperature on thermochemical measurements

using the kinetic method or the resolving power during separations by ion mobility. The purpose of the workshop is to explore the temperature by focusing on four (4) types of experiment: (a) use of linear free energy relationships and the kinetic method to measure gas-phase acidity and basicity, (b) threshold CID measurements to measure bond dissociation energies of reaction energy barriers, (c) temperature dependent measurements of reactions in quadrupole ion traps, and (d) variable temperature ion-mobility measurements. The format of the workshop will be discussion based, moderated by four experts in the respective areas: J. C. Poutsma for the kinetic method, Peter B. Armentrout for threshold CID, Scott Gronert for variable temperature ion trap experiments and Matt Bush for the role of temperature in ion mobility measurements. We hope the workshop will provide guidance for researchers designing experiments and interpreting the data that results from the application of mass spectrometry and ion-mobility in fundamental research.

> AFTER 8:00 PM **CORPORATE HOSPITALITY SUITES** JW MARRIOTT HOTEL

WEDNESDAY MORNING ORAL SESSIONS

From 6:45 am Wednesday **CORPORATE BREAKFAST SEMINARS Convention Center and JW Marriott Hotel**

Detailed schedule on page 15. Pre-registration recommended, space is limited

8:30-10:30 am Wednesday INFORMATICS: DATA-INDEPENDENT ACQUISITION: **INNOVATIVE METHODS AND APPLICATIONS Arthur Moseley (Duke University)** Hall D level 1

WOA am 08:30 Molecular Phenotyping of Alzheimer's Disease in Post-Mortem-Biospecimen Samples via Data Independent Acquisition; Jason Michael Gilmore1; Gennifer Merrihew1; Jarrett Egertson1; James Bollinger¹; Amarjeet Grewall²; Kathy Montine²; Thomas Montine²; Michael J MacCoss¹; ¹University of Washington Genome Sciences, Seattle, WA; ²Stanford School of Medicine, Stanford, CA

WOA am 08:50 LibMatic: A DIA-Umpire Based Pipeline to **Generate Spectral Libraries for Targeted** re-Extraction in DIA; Guo Ci Teo1; Dattatreva Mellacheruvu¹; Isabell Bludau²; Sumithra Urs^{3, 4, 5}; Kevin Conlon⁶; Felipe da Veiga Leprevost⁶; Ruedi Aebersold²; Venkatesha Basrur⁷; Diane Marie Simeone⁸; Alexey I. Nesvizhskii⁶; ¹Department of Pathology, University of Michigan, Ann Arbor, Ann Arbor, MI; 2ETH Zurich, Institute of Molecular Systems Biology, Zürich, Switzerland; 3Department of Surgery, University of Michigan, Ann Arbor, Ann Arbor, MI; 4Pancreatic Cancer Center, University of Michigan, Ann Arbor, MI; 5Translational Oncology Program, University of Michigan, Ann Arbor, MI; ⁶Department of Pathology, University of Michigan, Ann Arbor, MI; ⁷Department of Pathology, University of Michigan, Ann Arbor, MI; 8University of Michigan School of Medicine, Ann Arbor, MI

WOA am 09:10

Fighting Fire with Fire: Comprehensive DIA Spectral Libraries Improve Phosphopeptide Identification and Quantification by DIA; Alvaro Searle²; Sonia Ting²; Adam Officer¹; Michael J MacCoss²; Steven A Carr¹; Jacob D Jaffe¹; ¹Broad Institute of MIT and Harvard, Cambridge, MA; ²University of Washington, Seattle, WA

WOA am 09:30

Spectral Library-free DIA (DDA-free DIA) Algorithm Applied to Data Generated on a Novel Fast Scanning Orbitrap Instrument; Roland Bruderer¹; Lynn Verbeke¹; Oliver M. Bernhardt¹; Tejas Gandhi¹; Jan Muntel¹; Yue Xuan²; <u>Lukas</u> Reiter¹; ¹Biognosys, Schlieren, Zurich; ²Thermo Fisher Scientific, Bremen, Germany

Sebastian Vaca Jacome¹; Jarrett Egertson²; Brian

WOA am 09:50

Scanning Quadrupole Data Independent Acquisition: A Novel Workflow for Targeted and Discovery Proteomics; Ute Distler¹; Jörg Kuharev¹; Oliver M. Bernhardt²: Lukas Reiter²: Hannes Roest³; Gushinder Kaur-Atwal⁴; Sarah Lennon⁴; Jason wildgoose⁵; Keith Richardson⁴; Johannes PC Vissers⁴; Stefan Tenzer¹; ¹University Medical Center of the Johannes Gutenbe, Mainz, Rheinland-Pfalz; ²Biognosys, Schlieren, Zurich; ³Stanford University School of Medicine, Stanford, California: ⁴Waters Corporation, Wilmslow, UK; ⁵Waters Corp., Wilmslow, UK

WOA am 10:10

PCprofiler: Complex-centric Analysis of Protein Correlation Profiling Datasets; Isabell Bludau¹; Moritz Heusel¹; Robin Hafen¹; George Rosenberger¹; Max Frank¹; Ben Collins¹; Matthias Gstaiger¹; Ruedi Aebersold¹; ¹Institute of Molecular Systems Biology, ETH Zurich, Zurich, Switzerland

8:30-10:30 am Wednesday FOOD SAFETY & CHEMISTRY: NON-TARGETED SCREENING Robert Sheridan (New York Dept of Agriculture & Markets Food Laboratory) 500 Ballroom level 1

WOB am 08:30

Decomposition/Speciation of Seafood Products by LC-HRMS with Multivariate Statistical Analysis; Randy Self1; Michael G. McLendon1; ¹U.S. FDA, Bothell, WA

WEDNESDAY MORNING ORAL SESSIONS

WOB am 08:50	The Advantages of Using MS/MS ALL with SWATH® Acquisition for Confident Compound		² Institute of Nuclear Sciences Vinča, Vi ³ Kepler Universitätsklinikum GmbH, Lin
	Identification; Paul C. Winkler ¹ ; Craig Butt ² ; April Quinn-Paquet ² ; ¹ Sciex, Framingham, MA; ² SCIEX, Framingham, MA	WOC am 09:50	Fluorescence-Activated Cell Sortin Coupled to Top-down Mass Spectr Cell- and Proteoform-resolved Qua
WOB am 09:10	Orthogonal Food Analysis by Surface Plasmon		of Lymphocytic Lineage Biomarker
	Resonance Biosensing - Mass Spectrometry; Michel W. Nielen ¹ ; Sweccha Joshi ² ; Dick H.		<u>Srzentic</u> ¹ ; Timothy K. Toby ¹ ; Paul Tho Kelleher ¹ ; ¹ Northwestern University, E
	Hooijerink ¹ ; Teris A van Beek ² ; Willem Haasnoot ¹ ;	WOC am 10:10	•
	¹ RIKILT Wageningen University & Research,		Axis N-glycoproteome; Mariana Bai
	Wageningen, Netherlands; ² Wageningen University, Wageningen, Netherlands		Xu ² ; Melanie Gareau ¹ ; Helen Raybou Lebrilla ² ; ¹ Department of Anatomy, Ph
WOB am 09:30	Drift Tube Ion Mobility (DTIM) Assisted All Ions		Biology, School of Veterinary Medicin
	Data-independent Acquisition (DIA) Pesticide		² Department of Chemistry, University
	Screening; Xin Ma¹; Jian zhong Li¹; ¹Agilent Technologies, Beijing, China		Davis, Davis, CA
WOB am 09:50	Evaluation of GC-MS and Rapid Evaporative		8:30-10:30 am Wednesday
	Ionization Mass Spectrometry (REIMS) Platforms		IPIDOMICS: LIPIDS AND PROFILING
	for Classification of Lamb Meat Flavor; <u>Jessica</u> <u>Prenni</u> ¹ ; Adam L. Heuberger ² ; Corey D. Broeckling ³ ;	G	Savin Reid (University of Melbourne) Sagamore 4 level 2
	Linxing Yao ³ ; Karissa Maneotis ⁴ ; Anthony J.	WOD am 08:30	
	Midey ⁵ ; Bindesh Shrestha ⁵ ; James Murphy ⁵ ; Dale		Inflammatory and Resolution Phas
	Woerner ⁴ ; ¹ Colorado State University, Fort Collins, CO; ² Colorado State University Department of		Severe Influenza Infection; Veronic Qingling Li ¹ ; Jenny Jiang ¹ ; Carrie M. I
	Horticulture and Landscape Architecture, Fort Collins,		Wendy Sandoval ¹ ; Adrienne Randolp
	CO; 3Colorado State University's Proteomics and		M. McBride ¹ ; W. Rodney Mathews ¹ ; ¹
	Metabolomics Facility, Fort Collins, CO; *Colorado State University Department of Animal Sciences, Fort		Inc, South San Francisco, CA; ² Child Boston and Harvard Medical School,
	Collins, CO; ⁵Waters Corporation, Milford, MA	WOD am 08:50	Lipidome Isotope Labeling of Yeas
WOB am 10:10	Identification of Major Chemical Constituents		- The Potential of 13C Reference L
	in Momordica charantia using Liquid Chromatography-Mass Spectrometry and Its		Quantitative Lipidomics Workflows Rampler ¹ ; Cristina Coman ² ; Gerrit He
	Lipase Inhibitory Activity; Joydeb Chanda ¹ ;		Robert Ahrends ² ; David Peake ⁵ ; Bern
	Pulok Kumar Mukherjee ² ; Sayan Biswas ² ; Suvodip		Gunda Koellensperger ⁷ ; ¹ University V
	Banerjee²; Amit Kar²; Faraz Rashid³; <u>Dipanakar</u> <u>Malakar</u> ³; Manoj Pillai³; ¹ School of Natural Product		Vienna, Austria; ² Leibniz-Institut für Missenschaften - ISAS - e.V., Dortn
	Studies, Kolkata, India; ² School of Natural Product		³ ISOtopic Solutions, Vienna, Austria;
	Studies, Department of Pharmaceutical Technology,		Vienna, Vienna, Austria; ⁵ Thermo Fisher, Sei
	Jadavpur University, Kolkata -700 032, India, Kolkata, India; ³ Sciex, Gurgaon, Haryana, India		St. Jose, Austria; ⁶ Thermo Fisher Sci Germany; ⁷ University of Vienna, Vien
		WOD am 09:10	Harmonization of Lipidomics: Fina
PI(8:30-10:30 am Wednesday OMARKERS: QUALITATIVE ANALYSIS		of the NIST Interlaboratory Exercis Lipidomics using Standard Referen
	Sharon Pitteri (Stanford University)		1950 ; John A. Bowden ¹ ; Alan Hecker
	Sagamore 1-3 level 2		Z. Ulmer ¹ ; Christina Jones ¹ ; Jeremy k
WOC am 08:30	Chemically Supervised, Non-Chromatographic Accelerated Small Molecule Biomarker		¹ NIST, Charleston, SC; ² NIST, Gaithe ³ University of Florida, Gainesville, FL
	Discovery by Multiple Reaction Monitoring	WOD am 09:30	Endometrial Cancer Tissue Identifi
	(MRM) – Profiling; Christina Ferreira ¹ ; Karen E		Desorption Electrospray Ionisation
	Yannell ¹ ; Tiago JP Sobreira ¹ ; R. Graham Cooks ¹ ; ¹ Purdue University, West Lafayette, IN		Imaging; Olivia Raglan ^{1, 2} ; Luisa Dori Soares ¹ ; James McKenzie ¹ ; Zoltan Ta
WOC am 08:50	A Statistical Analysis into the Role of Chemical		Kyrgiou ^{1, 2} ; ¹ Imperial College London,
	Signaling in Giant Panda Mating; Abbey Wilson ¹ ;	WOD 00:50	² Imperial College Healthcare NHS Tru
	Ashli Brown Johnson ¹ ; Darrell Sparks ¹ ; <u>Stephan</u> Baumann ² ; ¹ Mississippi State University, Starkville,	WOD am 09:50	Comprehensive and Quantitative L Analysis of Human Sebum; Elizave
	MS; ² Agilent Technologies, Inc., Alpharetta, GA		Richard J. Robinson ¹ ; Kelli D. Goodm
WOC am 09:10	The Proteomic and Metabolomic	WOD 10:10	Evans ¹ ; Luke A.D. Miller ¹ ; ¹ Metabolon, II
	Characterization of Exercise-Induced Sweat; Sean Harshman ¹ ; Rhonda Pitsch ² ; Brian Geier ³ ;	WOD am 10:10	Dynamic Cell Surface Glycolipidon by nanoLC chip-Q-TOF Mass Spec
	Molly Fischer⁴; Maegan O'Connor⁴; Jason Eckerle⁵;		Maurice Wong ¹ ; Gege Xu ¹ ; Dayoung
	Adam Strang ³ ; Jennifer Martin ³ ; ¹ UES Inc, Air		Barboza ¹ ; Carlito Lebrilla ¹ ; ¹ University
	Force Research Laboratory, WPAFB, OH; ² Henry M. Jackson Foundation, Frederick, MD; ³ Air Force		Davis, Davis, CA
	Research Laboratory, WPAFB, OH; 4Oak Ridge		8:30-10:30 am Wednesday
	Institute of Science & Education, WPAFB, OH;		YCOPEPTIDES AND GLYCOPROTEIN
WOC am 00:30	5InfoSciTex Corporation, WPAFB, OH	Joe Za	ia (Boston University School of Med

Vinča, Serbia; Linz, Austria

ing (FACS) trometry allows uantitation ers ; Kristina nomas1; Neil L Evanston, IL

Gut-Brain arboza1; Gege ould1; Carlito Physiology & Cell ine, Davis, CA; ty of California,

IG e)

arkers of the ases During ica Anania¹; Rosenberger1; lph2; Jacqueline ¹Genentech, ldren's Hospital I, Boston, MA

ast (LILY) Lipids for ws; Evelyn lermann^{3, 4}; rnard Delanghe⁶; Vienna, Analytische tmund, Germany; a: 4University of isher Scientific, cientific, Bremen, enna, Austria

al Report ise on ence Material ert2; Candice Koelmel3: nersburg, MD;

ification by on (DESI) oria¹; Renata F Takats¹; Maria n, London; rust, London, UK

Lipidomic veta Freinkman1; lman¹; Anne M. Inc., Durham, NC

ome Revealed ectrometry; g Park1; Mariana ity of California,

Joe Zaia (Boston University School of Medicine) Sagamore 5-7 level 2

Deglycosylation by the Acidic Glycosidase WOE am 08:30 PNgase H+ Enables Analysis of N-linked Glycoproteins by Hydrogen/Deuterium Exchange Mass Spectrometry; Jeppe B. Madsen1; Josef

Is Proteomics Classification of Fertilized Cells

Possible - A Case Study; Goran Mitulovic1; Tanja

Panić-Janković1; Jadranka Miletić2; Thomas Ebner3; ¹Medical University of Vienna, KIMCL, Vienna, Austria;

WOC am 09:30

WEDNESDAY MORNING ORAL SESSIONS

	Voqlmeir²; Gerard Comamala³; Ya-Min Du²; Pernille		and in Vacuum; Akos Vertes ¹ ; Sylwia A. Stopka ² ;
	F. Jensen ⁴ ; Eva C. Østerlund ¹ ; Morten B. Trelle ¹ ;		Xavier A. Holmes ² ; Pranav Balan ² ; ¹ George
	Kasper D. Rand ⁴ ; <u>Thomas J.D. Jørgensen</u> ¹ ; 1Department of Biochemistry and Molecular		Washington University, Washington, DC; ² The George Washington University, Washington, DC
	Biology, University of Southern Denmark, Odense,	WOF am 09:30	Analysis of Tryptic Peptides and Polar
	Denmark; ² Glycomics and Glycan Bioengineering Research Center, College of Food Science and		Metabolites from FFPE Tissue by MALDI and LAESI MSI; Erin H Seeley¹; Candice M Brown²;
	Technology, Nanjing Agricultural University, Nanjing,		Callee M Walsh ¹ ; ¹ Protea Biosciences, Morgantown,
	China; ³ Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ⁴ Department		WV; ² West Virginia University School of Medicine, Morgantown, WV
	of Pharmacy, University of Copenhagen,	WOF am 09:50	Imaging and <i>in-vivo</i> Tissue Analysis by Infrared
WOE am 08:50	Copenhagen, Denmark Comprehensive Analysis of HIV Glycosylation		Laser Assisted Rapid Evaporative Ionisation MS-towards an Integrated MS-based Tissue
WOL alli 00.50	by Capillary Electrophoresis Separation and		Identification System; Haixing Wang ¹ ; Zsolt Bodai ¹ ;
	Ultraviolet Photodissociation; Jolene K Diedrich ¹ , 2; John R. Yates III ^{1,2} ; ¹ The Scripps Research		Eftychios Manoli ¹ ; Julia Abda ¹ ; Dipa Gurung ¹ ; Burak Temelkuran ¹ ; Ed St. John ¹ ; Daniel Leff ¹ ; Guang-
	Institute, La Jolla, CA; ² Salk Institute for Biological		Zhong Yang¹; Zoltan Takats¹; ¹Imperial College
WOE am 09:10	Studies, La Jolla, CA Thousands of Glycosites Characterized via	WOF am 10:10	London, London Microscope Ion Imaging of Complex Surfaces
	Intact Glycopeptide Analysis using Activated		Using the Pixel Imaging Mass Spectrometry
	Ion Electron Transfer Dissociation; Nicholas M. Riley ¹ ; Alexander S. Hebert ¹ ; Michael S. Westphall ¹ ;		Camera; Robert Burleigh ¹ ; Ang Guo ¹ ; Felix Allum ¹ ; Michael Burt ¹ ; Mark Brouard ¹ ; Steve Thompson ² ;
	Joshua J. Coon¹; ¹University of Wisconsin-Madison,		¹ Physical & Theoretical Chemistry Department,
WOE am 09:30	Madison, WI Development of Combined Phosphoproteomic		University of Oxford, Oxford, UK; ² Scientific Analysis Instruments Limited, Manchester, UK
	and Glycoproteomic Workflows using EThcD Fragmentation; Matthew S. Glover¹; Qing Yu¹;		8:30-10:30 am Wednesday
	Zhengwei Chen¹; Lingjun Li¹; ¹University of	INSTRUM	ENTATION: MS IN EXTREME ENVIRONMENTS
WOE am 09:50	Wisconsin Madison, Madison, WI A Novel Hybrid Platform Coupling Reverse		Tim Short (SRI International) Room 101-106 level 1
WOL am 00.00	Phase Glycoprotein Array with LC-MS/MS to	WOG am 08:30	Field Deployable MS for Comprehensive
	Profile Glycoproteins for Cancer Biomarker Discovery and Validation; Li Pan¹; Hillary Andaluz		Atmospheric Chemistry Studies; Benoit Plet ¹ ; Fred Stroh ² ; Manjula R. Canagaratna ³ ; Joel
	Aguilar ¹ ; Linna Wang ¹ ; Anton Iliuk ^{1, 2} ; Andy Tao ^{1,}		Thornton ⁴ ; Jordan E. Krechmer ^{3, 5, 6} ; John T Jayne ³ ;
	² ; ¹ Purdue University, West Lafayette, IN; ² Tymora Analytical Operations, West Lafayette, IN		Douglas R. Worsnop ^{3,7} ; ¹ TOFWERK, Thun, Switzerland; ² Institute of Energy and Climate
WOE am 10:10	Single Amino Acid Resolution of Glycosites with		Research – Stratosphere (IEK-7), Research Centre
	Top-down UVPD of Glycoproteins ; <u>Catherine</u> <u>Going</u> ¹ ; Romain Huguet ² ; Daniel Lopez Ferrer ² ; Vlad		Jülich GmbH, Jülich, Germany; ³ Center for Aerosol and Cloud Chemistry, Aerodyne Research, Billerica,
	Zabrouskov ² ; Andreas F. Huhmer ² ; Sharon Pitteri ¹ ; 1 Stanford University School of Medicine, Palo Alto,		MA; ⁴ University of Washington, Seattle, WA; ⁵ Cooperative Institute for Research in Environmental
	CA; ² ThermoFisher, San Jose, CA		Sciences (CIRES), Boulder, CO; 6Department of
	8:30-10:30 am Wednesday		Chemistry and Biochemistry, University of Colorado, Boulder, CO: ⁷ Department of Physics, University of
	ISTRUMENTATION & METHOD DEVELOPMENT		Helsinki, Helsinki, Finland
Ben E	Bowen (Lawrence Berkeley National Lab) Wabash level 1	WOG am 08:50	Development of Portable GC/MS System with Benchtop Performance for Critical DoD
WOF am 08:30	Chemical and Topographical 3D-surface Imaging		Applications; Leonard Rorrer ¹ ; Philip Tackett ¹ ;
	of non-planar Objects on the Micrometer Scale Using AP-SMALDI MSI; Bernhard Spengler ¹ ; Mario		Daniel Sutton ¹ ; Krystal Roark ¹ ; Brent Rardin ¹ ; Mitch Wells ¹ ; ¹ FLIR Detection, INC, West Lafayette, IN
	Kompauer¹; Sven Heiles¹; ¹Analytical Chemistry, Giessen	WOG am 09:10	Development of AC Frequency Scanning in
WOF am 08:50	Quantitative Secondary Ion Mass Spectrometry		Quadrupole Ion Traps for Planetary Exploration; Dalton T Snyder ¹ ; Christopher J Pulliam ¹ ; Joshua
	Imaging of Chemically Communicating Microbial Communities; Sage J. B. Dunham ¹ ; Joseph F.		Wiley ² ; Jason Duncan ³ ; Graham Cooks ¹ ; ¹ Purdue University, West Lafayette, IN; ² California Institute of
	Ellis ¹ ; Nameera F. Baig ^{2, 3} ; Nydia Morales-Soto ^{4,}		Technology, Pasadena, CA; ³ Acuity Brands Lighting,
	⁵ ; Joshua D. Shrout ^{4, 5} ; Paul W. Bohn ^{2, 3} ; Jonathan V. Sweedler ¹ ; ¹ Department of Chemistry and	WOG am 09:30	Inc., Crawfordsville, IN Multipole Field Effects on Cylindrical Ion Trap
	the Beckman Institute, University of Illinois at	VVCC am 00.00	Performance at High Background Pressures;
	Urbana-Champaign, Urbana, IL; ² Department of Chemistry and Biochemistry, University of Notre		<u>Dmitriy Chernookiy</u> ¹ ; J. Michael Ramsey ¹ ; ¹ University of North Carolina at Chapel Hill, Chapel
	Dame, Notre Dame, IN; 3Department of Chemical	W00 22 55	Hill, NC
	and Biomoleculer Engineering, University of Notre Dame, Notre Dame, IN; *Department of Civil and	WOG am 09:50	Experimental Design for Studying High Velocity Molecular Impacts in the Gas Phase; Anupriva
	Environmental Engineering and Earth Sciences,		Anupriya1; Sandra Osburn1; Brandon Turner1; Daniel
	University of Notre Dame, Notre Dame, IN; Department of Biological Sciences, University of	WOG am 10:10	
WOE on 00:10	Notre Dame, Notre Dame, IN Emerging Modalities for Quantitative Mass		Verification of the Mars Organic Molecule Analyzer (MOMA) Mass Spectrometer Under
WOF am 09:10	Spectrometry Imaging at Atmospheric Pressure		Simulated Martian Conditions; Ryan M.

WEDNESDAY MORNING ORAL SESSIONS

<u>Danell</u>¹; Veronica T. Pinnick²; Andrej Grubisic³; Friso H.W. van Amerom⁴; Xiang Li⁵; Desmond A. Kaplan⁶; Ricardo D. Arevalo²; Stephanie A. Getty²; William B. Brinkerhoff²; ¹Danell Consulting, Inc., Winterville, NC; ²NASA Goddard Space Flight Center, Greenbelt, MD; ³Center for Research and Exploration in Space Science and Technology (CRESST), University of Maryland, College Park, MD; ⁴Mini-Mass Consulting, Inc, Hyattsville, MD; ⁵Center for Research and Exploration in Space Science and Technology (CRESST), University of Maryland, Baltimore County, MD; ⁵KapScience LLC, Tewksbury, MA

8:30-10:30 am Wednesday
FUNDAMENTALS: PHOTOIONIZATION AND
PHOTODISSOCIATION
Frank Turecek (University of Washington)
Room 107-110 level 1

WOH am 08:30 Ultraviolet Activation of Peptides Using a Tunable Photon Source; Alexandre Giuliani. 1.
2; Francis Canon3; Aleksandar R. Milosavljevic1;
Laurent Nahon1; 1Synchrotron Soleil, Gif-sur-yvette,
Essonne; 2INRA, UAR1008, Nantes, France; 3INRA,
CSGA, Dijon, France

WOH am 08:50 Optimization of Fixed-charge and Photo-labile Derivatives for Lipid Structure Elucidation by Photodissociation; Venkateswara R. Narreddula¹; Nathan R. B. Boase¹; Berwyck L. J. Poad¹; David L. Marshall¹; Todd W. Mitchell²; Adam J. Trevitt²; Stephen J Blanksby¹; ¹Queensland University of

Technology, Brisbane, Australia; ²University of Wollongong, Wollongong, Australia

WOH am 09:10 Exploration of Peptide Fragmentation Utilizing 213 nm Photons for UVPD and RDD; Lance E Talbert¹; Ryan R Julian¹; ¹University of California, Riverside, Riverside, CA

WOH am 09:30 Disentangling Radical Rearrangement Chemistry via Labile Sites and Infrared Ion Spectroscopy;
Ning Zhao¹; Karnamohit Ranka¹; John Stanton¹;
Nicolas Polfer¹; ¹University of Florida, Department of Chemistry, Gainesville, FL

WOH am 09:50 Improved de novo Sequencing of Protonated and Charge Tagged Peptides using 157 nm VUV Photodissociation.; Nick DeGraan-Weber¹; James P. Reilly¹; ¹Indiana University, Bloomington, IN

Smashing It All Up (carefully!) - Combining Surface-Induced Dissociation, Ion Mobility and UV Photodissociation as a Protein Structure Interrogation Toolbox; Alina Theisen¹; Bruno Bellina¹; Bin Yan¹; Ines Camacho¹; Alex Jones¹; Perdita Barran¹; ¹University of Manchester, Manchester, UK

10:30 am-2:30 pm Wednesday WEDNESDAY POSTER SESSION Poster/Exhibit Hall

Lunch concessions are open 11:00 am-2:00 pm Odd-number posters present 10:30 am-1:00 pm Even-number posters present 12:00-2:30 pm

WEDNESDAY AFTERNOON ORAL SESSIONS

WOH am 10:10

2:30-4:30 pm Wednesday
INFORMATICS: MULTIOMICS INTEGRATION AND APPLICATIONS
Kelly Ruggles (NYU School of Medicine)
Hall D level 1

Hall D level 1 **Metaproteomics For The Future: Democratizing** WOA pm 02:30 **Functional Analysis of Microbiomes via Community-based Informatics Development** and Dissemination; Pratik Jagtap1; Bjoern Gruening²; James Johnson³; Alessandro Tanca⁴; Bart Mesuere⁵; W Judson Hervey⁶; Carolin Kolmeder⁷; Thomas Doak^{8, 9}; Thilo Muth¹⁰; Dave Clements¹¹; Praveen Kumar¹; Thomas McGowan¹; Clemens Blank²; Bernhard Renard¹⁰; Josh Elias¹²; Joel Rudney¹; Timothy Griffin¹; ¹University of Minnesota, Minneapolis, MN; ²Bioinformatics Group, Department of Computer Science, University of Freiburg, Freiburg, Germany; 3University of Minnesota, Minneapolis, MN; 4Porto Conte Ricerche, Science and Technology Park of Sardinia,, Alghero, Italy; 5Ghent University, Ghent, Belgium; 6Center for Bio/Molecular Science & Engineering, Naval Research Laboratory, Washington, DC; 7University of Helsinki. Helsinki. Finland: 8Indiana University. Bloomington, IN; 9National Center for Genome Analysis (NCGAS), Bloomington, IN; 10Robert Koch Institute, Berlin, Germany; 11 Johns Hopkins University, Baltimore, MD; 12 Department of Chemical

& Systems Biology, Stanford University, Stanford, CA
WOA pm 02:50

Personalized Profiling of Diabetes: Longitudinal
Multi-omics Profiles Provide Insight into Insulin
Resistance; Hannes Roest¹; Brian Piening¹; Wenyu
Zhou¹; Kevin Contrepois¹; Gucci Gu¹; Tejaswini
Mishra¹; Blake Hanson²; Eddy Bautista²; Shana

Leopold²; Christine Yeh¹; Daniel Spakowicz²; Kimberly Kukurba¹; Dalia Perelman¹; Colleen Craig¹; Denis Salins¹; Sharon Pitteri¹; Tracey McLaughlin¹; George Weinstock²; Mike Snyder¹; ¹Stanford University School of Medicine, Palo Alto, CA; ²The Jackson Laboratory for Genomic Medicine, Farmington, CT

WOA pm 03:10 Gene Expression and Metabolomics Integration Method Defines Cancer-Specific Molecular Signatures; Jalal K Siddiqui¹; Elizabeth Baskin¹; Russell Bonneville¹; Ewy Mathe¹; ¹Ohio State University. Columbus. OH

WOA pm 03:30 Unknown Protein Isoforms Resulting from Alternative pre-mRNA splicing Identified by the Integration of Mass Spectrometry and RASL-seq; Laura Agosto^{1, 2, 3}; Simone Sidoli^{1, 3}; Michael J. Mallory¹; Kristen W. Lynch^{1, 2}; Benjamin A. Garcia^{1, 2, 3}; ¹Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA; ²Graduate Group in Biochemistry and Molecular Biophysics, University of Pennsylvania, Philadelphia, PA; ³Penn Epigenetics Institute, Dept. of Biochemistry and Biophysics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

WOA pm 03:50 Antibody Repertoire Construction for Colorectal Cancer to Identify Tumor Affinity Antibody Peptides; Seong Won Cha¹; Vineet Bafna¹; ¹UCSD, La Jolla. CA

WOA pm 04:10 A New Network Module in the Perseus Software for the Analysis of Diverse Omics Data; <u>Jan Rudolph</u>¹; Juergen Cox¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany

65[™] ASMS CONFERENCE ON MASS SPECTROMETRY

WEDNESDAY AFTERNOON ORAL SESSIONS

	2:20 4:20 pm Wodnesday	WOC nm 03:50	Evaluation of Pontide Manning for Identification
FOOD SAFE	2:30-4:30 pm Wednesday TY & CHEMISTRY: FOODOMICS, ALLERGENS, BACTERIA, FOODS	WOC pill 03.30	Evaluation of Peptide Mapping for Identification and Quantitation of clips in Therapeutic Proteins; Pavel V. Bondarenko ¹ ; Andrew Nichols ¹ ;
	e Parker (FDA - Food Saftey and Nutrition) 500 Ballroom level 1		Da Ren¹; Lan Li¹; Jiu-Li Song¹; Le Zhang¹; Izydor Apostol¹; Zhongqi Zhang¹; ¹Amgen, Inc., Thousand
WOB pm 02:30	Multi-Allergen Detection in Thermally Processed Baked Goods with Liquid Chromatography- Tandem Mass Spectrometry: A Comparison of Methods for Allergen Quantification; Chelsea M.	WOC pm 04:10	Oaks, CA Worldwide Interlaboratory Study on Monoclonal Antibody Glycosylation: Variability and Best Values; M. Lorna A De Leoz ¹ ; David L Duewer ¹ ;
	Coffey¹; Timothy R. Croley¹; ¹U.S. Food and Drug Administration, College Park, MD		Stephen E Stein ¹ ; ¹ National Institute of Standards & Technology, NIST, Gaithersburg, MD
WOB pm 02:50	Developing a Targeted Parallel Reaction Monitoring Method for the Detection of Milk- Derived Ingredients in Complex Matrices; Michael Krawitzky¹; Charles Yang²; Melanie Downs¹;	LIPIDOMICS:	2:30-4:30 pm Wednesday NEW MS TECHNOLOGIES AND APPLICATIONS Qibin Zhang (UNC Greensboro)
WOB pm 03:10	¹ University of Nebraska-Lincoln, Lincoln, NE; ² Thermo Fisher Scientific, San Jose, CA Fingerprinting NIST Human Milk reference	WOD pm 02:30	Sagamore 4 level 2 Letting Ozone-induced Dissociation Out of the Box: A Modular, Platform-Independent System
Web pill 66.16	Material (SRM 1953) by HILIC-MS/MS for the Development of Prebiotic Oligosaccharides Mass Spectral Library; Connie Remoroza ¹ ; M. Lorna A De Leoz ¹ ; Stephen E Stein ¹ ; ¹ /N/ST,		for Implementation in Diverse Lipidomics Workflows; Berwyck L. J. Poad¹; Stephen J. Blanksby¹; David L. Marshall¹; Reuben S. Young¹; Todd W. Mitchell²; J. Larry Campbell³; Eva
WOB pm 03:30	Gaithersburg, MD Quantification of Fructose-Asparagine, an Acrylamide Precursor, in Human Foods, Animal Foods and Mouse Ceca; Jikang Wu¹; Anice Sabag-		Duchoslav ³ ; Martin R. Green ⁴ ; Jayne Kirk ⁴ ; Nick Tomczyk ⁴ ; Shane R. Ellis ⁵ ; Martin R. L. Paine ⁵ ; Ron M. A. Heeren ⁵ ; ¹ Queensland University of Technology, Brisbane, Australia; ² University of
WOB pm 03:50	Daigle¹; Brian Ahmer¹; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH Selective Detection and Quantification of		Wollongong, Wollongong, Australia; ³ SCIEX, Concord, ON, Canada; ⁴ Waters Corporation, Wilmslow, UK; ⁵ Maastricht Multi-Modal Molecular
од р селес	Cyanotoxins in Algae Dietary Supplements using Alternative HRMS Strategies; Audrey Roy-		Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands
	<u>Lachapelle</u> ^{1, 2} ; Morgan Solliec ³ ; Maryse Bouchard ¹ ; Sébastien Sauvé ¹ ; ¹ <i>Université de Montréal,</i> <i>Montréal, QC, Canada</i> ; ² <i>Environment and Climate</i>	WOD pm 02:50	A Complete Lipidomic Approach with Capability of Quantifying C=C Location Lipid Isomers; Wenpeng Zhang¹; Yu Xia²; Zheng Ouyang¹, ², ³;
	Change Canada, Montreal, QC, Canada; ³ École Polytechnique de Montréal, Montréal, QC, Canada		¹ Weldon School of Biomedical Engineering, Purdue University, West Lafayette, IN; ² Department of
WOB pm 04:10	Automated High Throughput Analysis of Food Products Using REIMS and Tecan EVO System –		Chemistry, Purdue University, West Lafayette, IN; 3State Key Laboratory of Precision Measurement
	Goose or Duck Liver Paté?; <u>Julia Balog</u> ^{1, 2} ; Richard Schaffer ¹ ; Steven Pringle ^{2, 3} ; Zoltan Takats ² ; <u>1Waters Research Center, Budapest</u> ; <u>2Imperial College</u>		Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China
	London, London, London; ³ Waters Corporation, Wilmslow, UK	WOD pm 03:10	Precise Structural Characterization of Unsaturated Lipids by 213 nm UV-
ANTIBOI	2:30-4:30 pm Wednesday DIES AND ANTIBODY DRUG CONJUGATES		Photodissociation MSn; Gavin E Reid ¹ ; Reiko Kiyonami ² ; Romain Huguet ² ; Christopher Mullen ² ; Seema Sharma ² ; Jesse Canterbury ² ; Jae Schwartz ² ;
	Yinyin Li (Rockefeller University) Sagamore 1-3 level 2		Vlad Zabrouskov ² ; David Peake ² ; ¹ School of Chemistry - University of Melbourne, Parkville,
WOC pm 02:30	Screening Synthetic Fabs against Ebola and Marburg Virus Antigens by Native Mass Spectrometry and Hydrogen-Deuterium	WOD pm 03:30	Australia; ² Thermo Fisher Scientific, San Jose, CA Ultra-sensitive, Ultra-high Resolution Lipid and Glycolipid Isomer Analyses with a Multi-pass
	Exchange Mass Spectrometry; <u>Liuqing Shi</u> ¹ ; Parmeshwar Amatya ² ; Daisy W. Leung ² ; Gaya K.		SLIM TWIM-MS platform and CRIMP Technology; Roza Wojcik ¹ ; Ian K. Webb ¹ ; Liulin Deng ¹ ; Jennifer
	Amarasinghe ² ; Michael L. Gross ³ ; ¹ Washington University in St Louis, St. Louis, MO; ² Washington		E. Kyle¹; Kent J. Bloodsworth¹; Noor A. Aly¹; Sandilya Garimella¹; Spencer S. Prost¹; Randolph V
WOC pm 02:50	University School of Medicine, St. Louis, MO; ³Washington University in St. Louis, St. Louis, MO lon Mobility-Mass Spectrometry and Gas-phase	WOD pm 03:50	Norheim ¹ ; Karl K. Weitz ¹ ; Yehia M Ibrahim ¹ ; Erin S Baker ¹ ; RIChARD D. Smith ¹ ; ¹ PNNL, Richland, WA Pulling Images from the Noise: Improving
	Unfolding for the Quantitative Characterization of Antibody Drug Conjugates; Yuwei Tian ¹ ; Brandon		Sensitivity for Low-abundant Lipids through Gas Phase Fractionation and Enrichment;
WOC pm 03:10	T Ruotolo¹; ¹University of Michigan, Ann Arbor, MI Proteomic Analysis of Serum Antibody Repertoire Dynamics Post-immunization; <u>Stefano</u>		<u>Jeffrey M Spraggins</u> ^{1, 2, 3} ; Raf Van de Plas ^{1, 2,} 4; Etienne Waelkens ^{5, 6} ; Richard M. Caprioli ^{1,} 2, 3, 7, 8; †Mass Spectrometry Research Center,
	Bonissone ¹ ; Katherine Harris ² ; Nathan Trinklein ² ; Natalie Castellana ¹ ; ¹ Digital Proteomics, LLC., La		Vanderbilt University, Nashville, TN; ² Department of Biochemistry, Vanderbilt University, Nashville, TN;
WOC pm 03:30	Jolla, CA; ² TeneoBio, Menlo Park, CA Complete de novo Sequencing of Monoclonal Antibodies by Mass Spectrometry; <u>Yongsheng</u> Xiao¹; Monika Vecchi¹; Benbo Gao¹; Ru Wei¹; Dingyi		³ Department of Chemistry, Vanderbilt University, Nashville, TN; ⁴ Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; ⁵ Dept. of Cellular and Molecular
	Wen ¹ ; ¹ Biogen, Cambridge, MA		Medicine, KU Leuven, Leuven, Belgium; ⁶ Sybioma,

WEDNESDAY AFTERNOON ORAL SESSIONS

KU Leuven, Leuven, Belgium; ⁷Department of Pharmacology, Vanderbilt University, Nashville, TN; ⁸Department of Medicine, Vanderbilt University, Nashville, TN

WOD pm 04:10

Comparison of Quadrupole and Ion Trap Collision Induced Dissociation for Structure Determination of Francisella Nnovicida Lipid A variants.; Alison Scott¹; Sung Hwan Yoon¹; Benjamin L. Oyler²; Jared B Shaw³; Dusan Velickovic³; Ljiljana Pasa-Tolic³; Robert K. Ernst¹; David Robinson Goodlett⁴; ¹University of Maryland School of Dentistry, Baltimore, MD; ²University of Maryland School of Medicine, Baltimore, MD; ³Pacific Northwest National Laboratory, Richland, WA; ⁴University of Maryland School of Pharmacy, Baltimore, MD

2:30-4:30 pm Wednesday BIOMARKERS: QUANTITATIVE ANALYSIS John Koomen (Moffitt Cancer Center) Sagamore 5-7 level 2

WOE pm 02:30 Development and Validation of Total and Isoform-specific Assays for Quantification of Periostin in Human Serum Using Immunocapture-LC-MS/MS; Dean E McNulty¹; Dana Knecht¹; Jonathan Kehler¹; Christopher A Evans¹; Matthew Szapacs¹; ¹GSK, King of Prussia,

WOE pm 02:50

Systematic Evaluation of SRM-, PRM- and DIA-Based Targeted Quantification; Ehwang Song¹; Tujin Shi²; Hui Wang²; Anil K. Shukla²; Thomas L. Fillmore²; Yuqian Gao²; Ronald J. Moore²; Matthew J. Gaffrey²; Athena A. schepmoes²; Karin D. Rodland²; Richard D. Smith²; Wei-Jun Qian²; Tao Liu²; ¹Pacific Northwest National Laboratory, Richland, WA; ²Pacific Northwest National Laboratory, Richland, WA

WOE pm 03:10

Detection of Ovarian Cancer Recurrence Using a Novel Integrated Proteomics Approach;
Ankit Sinha¹; Ali Hussain¹; Kwan Tang²; Vladimir Ignatchenko²; Alexandr Ignatchenko²; Blaise Clarke²; Marcus Bernardini²; Benjamin Neel³; Laurie Ailles²; Thomas Kislinger²; ¹University of Toronto, Toronto, ON, Canada; ²Princess Margaret Cancer Centre, Toronto, ON, Canada; ³Perlmutter Cancer Center, NYU Langone Medical Center, New York, NY Development of Protein Biomarkers for

WOE pm 03:30

Radiation Injury Using Quantitative Proteomics and Mass Spectrometry; Kate Liu¹; Elizabeth Singer¹; Whitaker Cohn¹; William McBride¹; Julian Whitelegge¹; Joseph A Loo¹; ¹UCLA, Los Angeles, CA

WOE pm 03:50

Robust and Multiplexed Immuno-MRM Workflow for Relative Quantitation of Tumor Suppressors and Phosphopeptide Biomarkers of DNA Damage Response (DDR) Pathway; Si_Mou¹; Lei Xiong¹; Jeffery R. Whiteaker²; Lei Zhao²; Yihan Li¹; Amanda G. Paulovich²; Hua-Fen Liu¹; Christie Hunter¹; ¹SCIEX, Redwood City, CA; ²Fred Hutchinson Cancer Research Center. Seattle, WA

WOE pm 04:10

Translational Top-down Proteomics as a Path Forward to Improved Diagnostics in Human Solid Organ Transplant Rejection; Tim Toby¹; Paul Thomas²; Josh Levitsky³; John Friedewald³; Michael Abecassis³; Neil L Kelleher²; ¹Northwestern University-Kelleher Research Group, Evanston, IL; ²Northwestern University, Chicago, IL; ³Northwestern University Feinberg School of Medicine, Chicago, IL

2:30-4:30 pm Wednesday

IMAGING: COMPUTATIONAL METHODS AND ANALYSIS Erin Seeley (Protea Biosciences)

Wabash level 1

WOF pm 02:30 MSlpad: An Effective Tool for Mass Spectrometry Metabolic Imaging, as Demonstrated by Extraction of Hormone Abnormalities in Diabetic Mouse Pancreas; Xian Mao¹; Tine Hectors²; Gerard Griffioen²; Bart De Moor¹; Etienne Waelkens³; ¹KU Leuven. ESAT-STADIUS / imec, Leuven, Belgium;

²reMYND, Bio-Incubator, Leuven, Belgium; ³KU Leuven, Dept. Cellular and Molecular Medicine,

Leuven, Belgium

WOF pm 02:50 Software Development for Automated Statistical Classification of Clinical Samples using Ambient Mass Spectrometry; Jonathan H Young¹; John Lin¹; Rob Tibshirani²; Livia S Eberlin¹; ¹Department of Chemistry, The University of Texas at Austin, Austin,

Statistics, Stanford, CA

WOF pm 03:10

Data Dependent Imaging Mass Spectrometry of Serial Tissue Sections Guided by Non-linear Registration of Autofluorescence Images; Nathan Heath Patterson^{1, 2}; Nico Verbeeck³; Raf Van de Plas^{1, 3}; Jeffrey Spraggins^{1, 4}; Richard M. Caprioli^{1, 4, 5, 6, 7}; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Department of Biochemistry, Vanderbilt University, Nashville, TN; ³Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; ⁴Department of Biochemistry, Vanderbilt University, Nasvhille, TN; ⁵Department of Chemistry, Vanderbilt University, Nashville, TN; ⁶Department of Pharmacology, Vanderbilt University, Nashville, TN; ⁷Department of Medicine, Vanderbilt University, Nashville, TN

TX; ²Departments of Biomedical Data Sciences and

WOF pm 03:30

Automated Approach for Comprehensive Interpretation of Correlated ToF-SIMS and AFM Nanomechanical Data Based on Data Analytics; Anton V. levlev¹; Aleeza Leder Macek¹; Ramakrishnan Kannan¹; Stephen Jesse¹; Mitchel J. Doktycz¹; Scott Retterer¹; Sergei V. Kalinin¹; Olga S. Ovchinnikova¹; ¹Oak Ridge National Laboratory, Oak Ridge . TN

WOF pm 03:50

Optimized Processing Workflow for Improved Information Recovery from Large-scale MSI Data; Kirill Veselkov¹; Jonathan Sleeman²; Emmanuelle Claude³; Ivan Laponogov¹; Mark Towers³; Robert Tonge³; Jeremy K Nicholson¹; Zoltan Takats¹; James Langridge³; ¹Imperial College London, London, UK; ²Center for Biomedicine and Medical Technology, Mannheim, Germany; ³Waters Corporation, Wilmslow. UK

WOF pm 04:10

Big Community Data Analytics for Metabolite Imaging Mass Spectrometry; Vitaly Kovalev¹; Artem Tarasov¹; Andrew Palmer¹; Katja Ovchinnikova¹; Dominik Fay¹; Theodore Alexandrov¹; ¹EMBL, Heidelberg, Germany. The full list of data contrbutors to METASPACE is online.

2:30-4:30 pm Wednesday
INSTRUMENTATION: NEW DEVELOPMENTS IN
IONIZATION AND SAMPLING
Michael MacCoss (University of Washington)
Room 101-106 level 1

WOG pm 02:30

Mechanistic Insights and Practical Utility of Highly-Charged Protein Ions on Vacuum Source Mass Spectrometers; Sarah Trimpin¹; Wen-Jing Zhang¹; I-Chung Lu¹; Efstathios Elia¹; Tarick J. El-Baba¹; Corinne A. Lutomski¹; Joshua L. Fischer¹; Ellen D. Inutan¹.²; Casey D. Foley¹; Steffen M. Weidner³; ¹Department of Chemistry, Wayne State

WEDNESDAY AFTERNOON ORAL SESSIONS

WOG pm 02:50	University, Detroit, MI; ² MSTM, LLC, Newark, DE; ³ BAM-Federal Institute for Materials Research and Testing, Berlin, Germany Supercharging of Analytes via a Novel Modified Ion Source; Christopher Andrew Wootton ¹ ;	WOH pm 02:50	Advancements in Traveling Wave Ion Mobility Theory: Assessing the Conformational Heterogeneity of Proteins and Peptides in the Gas Phase; Sugyan M Dixit ¹ ; Brandon T Ruotolo ¹ ; 1 University of Michigan, Ann Arbor, MI
	Haytham E. M. Hussein ¹ ; Cookson K. C. Chui ¹ ; Mark P Barrow ¹ ; Peter B. O'Connor ¹ ; ¹ <i>University of</i>	WOH pm 03:10	De novo Elucidation of Protein Structures with Ion Mobility Spectrometry / Mass Spectrometry
	Warwick, Coventry, UK		Christian Bleiholder; Florida State University,
WOG pm 03:10	Quantitative Extraction and Ambient Analysis at		Tallahassee. FL
WOO piii 05.10	a Subcellular Level; Julia Laskin¹; Ruichuan Yin¹;	WOH pm 03:30	Integrative Mass Spectrometry Reveals
	venkateshkumar Prabhakaran¹; Patrick El Khoury¹;	77011 pill 00.00	the Conformational States of Protein
	¹ Pacific Northwest National Laboratory, Richland, WA		Supercomplexes: Application to Cullin Ring
WOG pm 03:30	Analytic Directed Screening System for the		Ligases in Complex with Cop9 Signalosome;
	Rapid Screening of Synthetic Pathways; Michael		Andy Lau ¹ ; Zainab Ahdash ¹ ; Chloe Martens ¹ ; Carla
	Wleklinski ¹ ; Bradley P. Loren ¹ ; Andy Koswara ¹ ;		Schmidt ² ; Argyris Politis ³ ; ¹ King's College London,
	Caitlin E. Falcone ¹ ; Zinia Jaman ¹ ; Kiran Iyer ¹ ; H.		London, London; ² Martin Luther University Halle-
	Samuel Ewan ¹ ; Christina R. Ferreira ¹ ; Yanyang Hu ¹ ;		Wittenberg, Halle (Saale), Germany; 3King's College
	Kathryn Yammine ¹ ; Adam Hollerbach ¹ ; Tiago JP		London, UK
	Sobreira ¹ ; Larisa Avramova ¹ ; David H. Thompson ¹ ;	WOH pm 03:50	A Coarse-grained Computational Approach
	Zoltan K. Nagy¹; R. Graham Cooks¹; ¹Purdue		to Enable Structure Elucidation of
	University, West lafayette, IN		Polymorphic Nucleic Acids by ion Mobility
WOG pm 03:50	Microsampling for Proteomic Characterization		Mass Spectrometry; Rebecca J D'Esposito ¹ ;
	of Increasingly Smaller Cells in the Vertebrate		Jennifer L Lippens ² ; Sweta Vangaveti ³ ; Srivathsan
	(Frog) Embryo; Camille Lombard-Banek ¹ ; Aparna		Ranganathan ³ ; Dan Fabris ¹ ; ¹ University at Albany-
	B. Baxi ² ; Sally A Moody ¹ ; Peter Nemes ² ; ¹ George		SUNY, Albany, NY; ² Amgen, Thousand Oaks, CA;
	Washington University, Washington, DC; ² George	WOH nm 04:10	³ The RNA Institute, Albany, NY
WOG pm 04:10	Washington University, Washington , DC	WOH pm 04:10	Molecular Dynamics Simulations of the
₩ OG pill 04.10	An Open Port Sampling Interface as a Noncontact Injection System for Coupling		Electrospray Process: Why Do Crown Ethers Suppress Protein Supercharging?; Lars
	Liquid droplet sample Dispensing Systems		Konermann¹; Haidy Metwally²; ¹Univ. of Western
	with Mass spectrometry: Cary I Van Berkell:		Ontario London ON Canada: 21 Iniv of Western

4:45-5:30 pm Wednesday **ASMS MEETING** Vicki Wysocki, ASMS President, presiding Enjoy a beverage and hear the latest ASMS news. Sagamore 5-7 level 2

Ontario, London, ON, Canada

Ontario, London, ON, Canada; 2Univ. of Western

2:30-4:30 pm Wednesday FUNDAMENTALS: MOLECULAR MODELING AND QUANTUM MECHANICAL CALCULATIONS IN ION MOBILITY AND MS **Christopher Chouinard (PNNL)** Room 107-110 level 1

Stuttgart, Germany

WOH pm 02:30 Towards Small Molecule Unsupervised Structural Assignment Using TIMS-FT-ICR MS datasets; Paolo Benigni1; Francisco Fernandez Lima1; 1Florida International University, Miami, FL

with Mass spectrometry; Gary J. Van Berkel1;

Laboratory, Oak Ridge, TN; 2Dispendix GmbH,

Vilmos Kertesz¹; Harry Boeltz²; ¹Oak Ridge National

5:45 - 7:00 PM WEDNESDAY WORKSHOPS

There are light refreshments in common areas.

01. Career and Collaboration Opportunities in China Presiding: Yinsheng Wang, Andy Tao **Room 130**

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 job opportunities 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, hiring 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 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.

02. High Spatial Resolution 2D and 3D Mass Spectrometry **Analysis: New Trends** Presiding: Francisco Fernandez-Lima, Chistopher Anderton Room 131-132

Recent advances on 2D and 3D Mass Spectrometry analysis has driven many technological advances 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, there is a need to further develop universal, analysis and data processing protocols; definitions; reference guidelines; standard reference materials; and inter-laboratory comparisons.

This first workshop will provide an overview of the main 2D and 3D MS technologies from experts in the field and will focus on generating further strategies to integrate existing and new technologies and researches in the area of 2D and 3D MS analysis.

A preliminary list of topics will include:

- i. High spatial resolution MS analysis (How is defined the spatial for different MS techniques?);
- ii. Applications in Material, Biological and Forensic Sciences;

- iii. 3D MS analysis and depth profiling;
- iv. Theoretical treatment and existing data processing tools (open source and commercial); and
- v. Hyphenated 2D and 3D MS techniques.

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 techniques, with a balance between academic, national laboratories and industrial researchers will be follow 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.

03. Diversity and Outreach Presiding: Benjamin Garcia, Rena Robinson Room 133-134

This workshop will serve as the first open meeting of the ASMS Diversity and Outreach Working Group. At the 2016 ASMS Conference, a committee was assembled and met to outline potential initiatives for enhancing the diversity of our society. Here specifically at this workshop, we will have a series of mini-talks by scientists that besides describing exciting new science, will also focus on their personal journeys into their professional careers. These talks will lead into a Discussion Panel, so that attendees will have a chance to ask any questions to committee members about scientific research paths, career and life choices, applying for next level positions, etc. Lastly, time will also be allotted for discussion of the initiatives of the Diversity and Outreach Working Group, and to solicit feedback from the ASMS community. We hope this workshop will begin to lay down the networking foundations for scientists who are interested in Diversity and Outreach to connect other scientists at all career levels.

04. Galaxy-P in the Cloud: Proteomic Informatics on JetStream Presiding: Tim Griffin, Pratik Jagtap Jeremy Fischer Room 135-136

The Galaxy bioinformatics platform has emerged as a valuable workflow engine for MS-based proteomic informatics. Galaxy enables integration of disparate software tools to build sophisticated workflows for proteomic, and even multi-omic data analysis. An active and collaborative community of researchers, including the Galaxy for proteomics (Galaxy-P) team, continues to extend Galaxy for these applications.

To date, Galaxy-P has been primarily accessible to those who are experienced users of the Galaxy platform. To extend its reach to the greater community, implementation of proteomics software on more accessible and scalable infrastructure is needed.

To address this need, the Galaxy-P team has partnered with the JetStream cyberinfrastructure resource. Maintained at Indiana University and supported by the NSF, Jetstream is a production-level cloud computing resource open to the research community. JetStream supports Galaxy instances as one of its core bioinformatics software.

This workshop will provide participants background on JetStream, including instructions on how it can be accessed and the hardware and software resources available. A hands-on demonstration opportunity will also be provided, highlighting Galaxy-P software and workflows that have been made available on JetStream. Attendees will take away knowledge on how to access this resource and make use of it for their own MS-based proteomics informatics needs.

05. Food Safety & Authenticity: HRMS Applications (Flavor, Fragrance & Foodstuff Interest Group) Presiding: David Schroeder, Sara Kern Room 137-138

Food, Flavor and Fragrance High Resolution Mass Spectrometry (HRMS) applications and developments discussion continuation. Food contaminant, pesticide, non-targeted analyte identification, and natural product authenticity strategies will be discussed.

06. Energy, Petroleum, and Biofuels: Challenges (Energy Petroleum & Biofuels Interest Group) Presiding: Mark Barrow, David Stranz Room 139

Energy-related samples present a number of analytical challenges. Petroleum is a highly complex mixture and mass spectrometry remains at the forefront of methods for sample characterization. Petroleum derivatives, including fuels which include biofuel components, are also areas of growing interest. As a result, researchers are faced with a range of experimental considerations in order to acquire data of high quality. Samples may undergo extraction or separation procedures, such as SARA fractionation, as an initial step. The choice of solvents used during sample preparation and the selection of the ionization method will influence the sample profile. Chromatography and ion mobility may be employed as additional separation approaches, offering potential for structural information while also introducing a further need for optimization. Dynamic range and, for FTMS instruments, space-charge are two of the experimental considerations during data acquisition. With such areas in mind, the workshop will feature discussion of experimental challenges that influence data quality.

07. Undergraduate Research in Mass Spectrometry: Making the Most of It (Undergraduate Research in MS Interest Group) Presiding: Jim Pesavento, Megan Gessel Room 140

This panel discussion, aimed at undergraduate students and their mentors, will focus on helping undergraduate students leverage their undergraduate research experiences into successful scientific careers. Panelists will discuss their experiences applying to graduate school and transitioning to a graduate school research environment, as well as working in industrial labs.

08. Quantitative Glycomics and Glycoproteomics Presiding: Yehia Mechref Room 141-142

The correlations between protein glycosylation and many biological processes and diseases are increasing the demand for quantitative glycomic strategies, enabling sensitive monitoring of changes in the abundance and structure of glycans. This is currently attained through multiple strategies employing several analytical techniques, such as capillary electrophoresis, liquid chromatography, and mass spectrometry. Detection and quantification of glycans often involve labeling with ionic and hydrophobic reagents to enhance detections in spectroscopic and mass spectrometric measurements. Recently, labeling with stable isotopic reagents has also been presented as a very viable strategy enabling relative quantitation. The different strategies available for reliable and sensitive quantitative glycomics will be described and discussed in this workshop, including MS of naïve, permethylated and derivatized glycans. Quantiation through the addition of standards or isotopically labeled glycans will also be discussed. Additionally, quantitative glycomics through stable isotopic labeling will also be discussed, such as stable isotopic labeling by permethylation and reductive amination. Multiplexing quantitative glycomics employing permethylation, TMT reagents, and QUANTITY will be described and discussed.

09. Mass Spectrometry in GMP Environment: Aspects of System Qualification and Method Validation Presiding: Gyorgy Vas Room 143-144

The workshop will continue to discuss the aspects of cGMP compliant instrument qualification practices, was started last year. We will discuss recent best practice, industry and regulatory expectations of Mass Spectrometric Instrument Qualification in a cGMP environment. Different solutions will be discuss, how to handle -on a regulatory compliant manner- the lack of regulatory documents and guidance related to this field. This year we will extend the scope for method validation best practice.

Attendees are expected from instrument vendors, pharmaceutical and food industry and regulatory agencies.

5:45 - 7:00 PM WEDNESDAY WORKSHOPS

10. Mass Spectrometry in the Developing World: Supporting Education and Research Presiding: Kym Faull Room 145

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 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 accomplished via Skype and email. The big questions is: Is this feasible? It 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 Presider will begin with a brief description of a personal experience that stimulated him to organize this workshop. This was a memorable experience that forged a lifelong and enduring friendship. All those interested are invited to join in a discussion on this topic.

11. Lipidomics Data Processing and Analyses: Software Tools (Lipids & Lipodomics Interest Group) Presiding: Todd Mitchell, Eva Duchoslav Room 231-234

One of the key issues in lipidomics experiments is the bottleneck created by the large amount of data generated. Growing awareness of this issue has seen many academics and MS vendors develop software dedicated to the processing and analysis of this data. With a rapidly growing choice of both commercial software and freeware it can be difficult deciding what software is best for your experiment. In this workshop a panel of advanced users and software developers will share their experience with a variety of lipid and lipidomics-compatible software platforms, focusing on capabilities, tips and tricks, and answer your questions on the where, when and how of lipid MS data processing tools

12. Data Independent Acquisition Strategies for Quantitative Proteomics: The Challenges of Scaling Up to Meet Demand (Data Independent Acquisition Interest Group) Presiding: Ben Collins, Isabell Bludau Room 235-238

A basic aim of most proteomics studies is to obtain a protein matrix with quantitative values for multiple proteins across various conditions. Data independent acquisition (DIA) has recently emerged as a promising method to generate such matrices with deep proteome coverage (similar to DDA) and consistent detection and quantification across large sample cohorts (comparable to SRM/PRM methods). A growing number research goals in the life sciences explicitly require the analysis of large numbers of samples (e.g. perturbation/drug screens, genetic association analysis, clinical/biomarkers, ...). But how broad and how deep can we go? What challenges are being encountered when attempting to scale-up? This workshop aims to discuss the scalability of DIA based methods with respect to both the number of conditions being simultaneously analyzed and proteome coverage. We will discuss issues associated with scalability broadly in three categories: proteome coverage of the spectral library (only for peptide-centric scoring), error rate control on the level of protein detection, and quantification consistency across large and heterogeneous sample cohorts. The workshop will focus on introducing the most recent concepts addressing these aspects and further aims to discuss and develop ideas to ensure the reporting of high-quality protein quantification matrices.

13. Nucleic Acid-based Therapeutics: Structure Identification and Bioanalysis (Oligonucleotides and Nucleic Acids Interest Group) Presiding: Laixin Wang, Sam Wainhaus Room 239

Following small molecules and monoclonal antibodies, nucleic acid-based therapeutics have emerged to be the third major drug development engine in the pharmaceutical industry. Starting from

antisense in 1990s, RNAi in 2000s to CIRSPR and mRNA in 2010s. The rise of nucleic acid based therapeutics has coincided with an explosion in the understanding of the genetic cause of diseases, and the growing desire for precision medicine. LC-MS/MS and LC-HRAM are playing critical roles in the structure characterization and quantitative analysis of nucleic acid molecules. This workshop will focus on the assay development of sensitive and specific assays for structure identification and bioanalysis of nucleic acid based therapeutics and their metabolites. Selected presentations will demonstrate the challenges and solutions during the method development and sample analysis. The remaining time will be spent discussing the pitfalls and tips and tricks in sample preparation, LC development and MS optimization.

14. Ion Mobility Spectrometry: Towards Standard Operating Procedures (Ion Mobility MS Interest Group) Presiding: Stephen Valentine, Valérie Gabelica, Brian Clowers Room 240-242

In contrast to the m/z ratio which depends on the analyte only, ion mobility fundamentally depends upon the interactions of analyte ions with neutral gas molecules. Measuring gas-phase ion mobility, although becoming widespread, is not yet routine. Given the growing user base and range of home-made and commercial instrumentation, there is a need for standard operating procedures (SOPs), reference materials and well-defined performance metrics to ensure the quality and utility of experiments. The ion mobility spectrometry interest group workshop will provide a forum to discuss (1) the core issues for developing SOPs for IMS and (2) the minimum reporting requirements for peer-reviewed publication and data sharing.

15. Bioanalysis of Biosimilars (Regulated Bioanalysis Interest Group) Presiding: Dian Su, Jian Wang, Fabio Garofolo Room 243-245

Biosimilars are not exact duplicates of Innovator Biotherapeutics. Hence, the Regulatory Agency requirements for Biosimilars differ from those of small molecules. One important difference is the required evaluation of "similarity" of the Biosimilar compared to the innovator Biotherapeutic. Bioanalysis of Biosimilars is subject to endogenous interference, requiring specific and selective assay to ensure data reliability. The specificity and selectivity of traditional quantification approaches (Ligand Binding Assays - LBA) are dependent on the interaction of critical reagents to the Biotherapeutic. It is possible that the Innovator and the Biosimilar do not have the same binding characteristics towards the assay critical reagents. In this case, two assays with different critical reagents may be needed and the demonstration of biocomparability may be more complicated. LC-MS/ MS and more recently HRMS have shown to be a successful technique for the Bioanalysis of Biotherapeutics. Unlike traditional approaches, LC-MS/MS and HRMS assays can be developed for the Bioanalysis of Biosimilars without using critical reagents and therefore only a single assay is needed for both Biosimilar and Innovator comparison. Experts in the field will share their experience in this highly interactive workshop.

AFTER 8:00 pm
CORPORATE HOSPITALITY SUITES
JW MARRIOTT HOTEL

THURSDAY MORNING ORAL SESSIONS



From 6:45 am Thursday CORPORATE BREAKFAST SEMINARS Convention Center

Detailed schedule on page 15.

Pre-registration recommended, space is limited

8:30-10:30 am Thursday INFORMATICS: INNOVATIONS Dan Spellman (Merck & Co.) Hall D level 1

ThOA am 08:30 QCloud: A Cloud-based Quality Control System for the Proteomics Community; Cristina Chiva¹.

²; Roger Olivella¹.²; Eva Borràs¹.²; Guadalupe
Espadas¹.²; Olga Pastor¹.²; Amanda Solé¹.²; Eduard
Sabidó¹.²; ¹Proteomics Unit, Centre de Regulació
Genòmica (CRG), Barcelona Institute of Science
and Technology (BIST), Dr. Aiguader 88, Barcelona,
Spain; ²Universitat Pompeu Fabra (UPF), Dr.
Aiguader 88, Barcelona, Spain

ThOA am 08:50 Paradigm Change in de novo Identification of Small Molecules: Giant Spectral Trees; Tim J. Stratton¹; Jakub Mezey²; Alena Bednarikova²; Andrea Belicova²; Jana Semanova²; Robert Mistrik²; ¹ThermoFisher, San Jose, CA; ²HighChem, Bratislava, Slovakia

ThOA am 09:10 Novoquest: Algorithm for de novo Sequencing of Cyclic Peptide Antibiotics Using Tandem Mass Spectrometry; Bahar Behsaz¹; Hosein Mohimani¹; Pieter C. Dorrestein¹; William Gerwick¹; Pavel Pevzner¹; ¹University of California, San Diego, La Jolla, CA

ThOA am 09:30 Software for Proteome Dynamics from Metabolic Labeling and LC-MS; Mahbubur Rahman¹; Takhar Kasumov²; Rovshan Sadygov³; ¹UTMB, Galveston, TX; ²Northeast Ohio Medical Univeristy, Rootstown, OH; ³University of Texas, Galveston, TX

ThOA am 09:50 Visualizing Flux Between Proteoforms Implicated in Stress Response by Constructing and Quantifying Proteoform Families; Anthony J.

Cesnik¹; Michael R. Shortreed¹; Leah V. Schaffer¹; Brian L. Frey¹; Rachel A Knoener¹; Mark Scalf¹; Stefan K Solntsev¹; Lloyd M. Smith¹; ¹University of Wisconsin Madison, Madison, WI

ThOA am 10:10 PeptideExplorer: A Repository-scale Intuitive Navigation Interface over Millions of Identifications; Benjamin Pullman¹; Jeremy Carver¹; Mingxun Wang¹; Nuno Bandeira¹.²; ¹Computer Science and Engineering Department, UC San Diego, San Diego, CA; ²Skaggs School of Pharmacy, University of California San Diego, La Jolla, CA

8:30-10:30 am Thursday MS IN THE QC LAB

Izabella Sokolowska (Janssen Research & Development) 500 Ballroom level 1

ThOB am 08:30 Quantitation of Capsaicinoids by UPLC/MS using Single Quadrupole Mass Spectrometry in the QC Environment; Jane E. Guido; Kalsec, Inc., Kalamazoo, MI

ThOB am 08:50 LC Peak Purity Assessment Using a Novel LC-MS Data Processing Approach; Adrien Nyakas¹;
Agron Selami¹; Hannes Patrik Plattner¹; Dirk
Bächle¹: ¹Bachem AG. Bubendorf. Switzerland

ThOB am 09:10 Mass Spectrometry Applications in Medical Cannabis Contamination Testing; Scott Kuzdzal¹;
Bob Clifford¹; Jeff Dahl²; Dan Davis¹; Nicole Lock³;
Paul Winkler²; Julie Kowalski⁴; Jason Zitzer⁵; Derek Laine⁵; ¹Shimadzu Scientific Instr., Columbia,

MD; ²Shimadzu Scientific Instruments, Columbia, MD; ³Shimadzu Scientific Instruments, Somerset, NJ; ⁴Restek Corporation, Bellefonte, PA; ⁵Trace Analytics, Spokane, WA

ThOB am 09:30 Adding Mass Spectrometry Capabilities to LC/UV-based Workflows as Part of Lifecycle Management in the Routine Analysis of Small Biotherapeutics; Ximo Zhang¹; Robert Birdsall¹; Brooke M Koshel¹; Joe Fredette¹; Min Du¹; Ying Qing Yu¹; ¹Waters Corporation, Milford, MA

ThOB am 09:50

Development and Validation of a LC-MS
Glycosylation Method for Testing of a
Monoclonal Antibody Product Containing Two
Glycosylation Sites; Zhirui Lian¹; Angelia ReedBogan¹; Eric Adamec¹; Bryan Harmon¹; Haiyan Lu¹;
Bereket Yemane¹; Jean Yang¹; Roujian Zhang¹; ¹Eli
Lilly and Company, Indianapolis, IN

ThOB am 10:10 Automated Data Processing for Quality
Monitoring of Biotherapeutics by Multi-attribute
Methods (MAMs); Joe Shambaugh¹; Stefano
Gotta²; David Bush¹; Maurizio Bronzetti¹; Cassandra
Wigmore²; ¹Genedata Inc, Lexington, MA;
²Genedata AG, Basel, Switzerland

8:30-10:30 am Thursday MEMBRANE PROTEIN MS Julian Whitelegge (UCLA) Sagamore 1-3 level 2

ThOC am 08:30 Native MS Reveals Lipid-dependent Dimer
Formation for the Eukaryotic Purine symporter
UapA; Euan Pyle¹; Bernadette Byrne²; Argyris
Politis³; ¹Imperial College London and King's College
London, London, UK; ²Imperial College London,
London; ³King's College London, London

ThOC am 08:50 Collision Induced Unfolding Reveals the Regiospecific Ligand Binding Behavior of Integral Membrane Translocator Protein (TSPO);

Sarah Fantin¹; Shuai Niu¹; Jian Liu²; Richard A Kerr¹; Shelagh M Ferguson-Miller²; Brandon T Ruotolo¹;

¹University of Michigan, Ann Arbor, MI; ²Michigan State University, Lansing, MI

ThOC am 09:10 FT-ICR MS as a bona-fide Platform for Multimeric Membrane Protein Characterization; Jennifer

L. Lippens¹; Michael Nshanian²; Pascal F Egea²; Joseph A Loo²; Iain D G Campuzano¹; ¹Amgen, Newbury Park, CA; ²UCLA, Los Angeles, CA

ThOC am 09:30 Automated Proteoform Elucidation of Chromatographically Resolved Hyper-Modified Intrinsically Disordered Membrane Proteins;

Daniel A Plymire¹; John R Corbett^{1, 2}; Casey E Wing¹; William S Phipps¹; Steven M Patrie^{1, 2}; *1University of Texas Southwestern Medical Center, Dallas, TX; *2University of Texas at Dallas, Richardson, TX

ThOC am 09:50 Mapping the Orientation and Sites of
Neurosteroid Photolabeling in the Ion Channel,
Glic Using Top-Down, Middle-Down, and BottomUp Mass Spectrometry; Wayland WL Cheng¹; ZiWei Chen¹; Melissa M Budelier¹; Douglas F Covey¹;
Gustav Akk¹; Evers S Alex¹; ¹Washington University
in St. Louis, Saint Louis, MO

ThOC am 10:10 Studying the Structural Dynamics of the Eukaryotic Neurotransmitter Transporter dDAT by Hydrogen/Deuterium Exchange Mass Spectrometry; Anne Kathrine Nielsen^{1, 2}; Ingvar R Möller²; Kasper D Rand²; Claus J Loland¹; ¹Department of Neuroscience and Pharmacology, University of Copenhagen, Copenhagen, Denmark; ²Department of Pharmacy, University of Copenhagen, Denmark

THURSDAY MORNING ORAL SESSIONS

8:30-10:30 am Thursday NUCLEIC ACIDS AND OLIGONUCLEOTIDES Kym Faull (UCLA) Sagamore 4 level 2

ThOD am 08:30 Advances in LC-MS of Oligonucleotides; Michael G. Bartlett¹; Babak Basiri²; ¹University of Georgia, Athens, GA; ²University of Georgia, Athens, GA

ThOD am 08:50 Analysis of Global RNA Mononucleoside
Modifications by nanoLC-MS/MS; Kevin A.

Janssen¹; Ranran Wu¹; Benjamin A. Garcia¹;

¹Epigenetics Institute, University of Pennsylvania
Perelman School of Medicine, Philadelphia, PA

ThOD am 09:10 Multiplex Analysis of Oligonucleotides and RNA Digestion Products through polyA Polymerase (PAP) with Azido-Modified NTP Labeling; Kayla Borland¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH

ThOD am 09:30 System Wide Elucidation of the Dynamics of Proteins Associating with Single Messenger RNAs (mRNAs); Erica Jacobs¹; Peter C Fridy¹; Michael P Rout¹; Brian T Chait¹; ¹Rockefeller University, New York, NY

ThOD am 09:50 Real-time Monitoring of Nucleic Acid Dynamics by ESI-MS Melting Experiments; Botros Toro¹; Pan T.X. Li¹; Daniele Fabris¹; SUNY at Albany, Albany, NY

ThOD am 10:10 Multi-omic Mass Spectrometry Applications:
Dozens of tRNA Modifications and an
Alternative Genetic Code Control Dormancy
and Antibiotic Resistance in Mycobacteria;
Weiling Maggie Cai¹; Yok Hian Chionh¹; Nicholas
Davis²; Jennifer Hu²; Thomas Begley³; Peter
Dedon¹.⁴; ¹Singapore-MIT Alliance for Research and
Technology, Infectious Disease IRG, Singapore,
Singapore; ²Massachusetts Institute of Technology,
Cambridge, MA; ³3SUNY Polytechnic Institute,
Albany, NY; ⁴Massachusetts Institute of Technology,
Cambridge. MA

8:30-10:30 am Thursday NATIVE MS IN STRUCTURAL BIOLOGY Frank Sobott (University of Antwerp) Sagamore 5-7 level 2

ThOE am 08:30 Probing Structure and Capturing Transient Intermediates by Monitoring Reactions of Protein Assemblies in Real Time by High-Resolution Native Mass Spectrometry; Paul Dominic B. Olinares¹; Virapat Kieuvongngam²; Natalia Orlova³; Julio C Padovan¹; David Jeruzalmi³; Jue Chen²; Brian T Chait¹; ¹Laboratory of Mass Spectrometry and Gaseous Ion Chemistry, The Rockefeller University, New York, NY; ²The Rockefeller University and Howard Hughes Medical Institute, New York, NY; ³Department of Chemistry and Biochemistry, City College of New York, New York, NY

ThOE am 08:50 Structural Characterization of Protein-Lipid Complexes Involved in Clathrin-Mediated Endocytosis; Johannes Heidemann¹; Maria M. Garcia Alai²; Anna Gieras²; Rob Meijers²; Charlotte Uetrecht¹, ³; ¹Heinrich Pette Institute, Hamburg, Germany; ²EMBL, Hamburg, Germany; ³XFEL GmbH, Hamburg, Germany

ThOE am 09:10 The Molecular Clock of Islet Amyloid
Polypeptide: from Dimerization to Deamidation;
Yuko P. Y. Lam¹; Christopher A. Wootton¹; Juan
Wei¹; Ian Hands-Portman¹; Mark P. Barrow¹; Peter
B. O'Connor¹; ¹University of Warwick, Coventry, UK

ThOE am 09:30 Structural Transitions of Brome Mosaic Virus Tracked by Charge Detection Mass Spectrometry; Kevin M Bond¹; Irina B Tsvetkova¹;

University Bloomington, Bloomington, IN

ThOE am 09:50 Investigation of Protein-Protein Interactions using Surface Induced Dissociation - Mass Spectrometry; Stacey Nash¹; Florian Busch¹; Kristina Heyn²; Fabian Ruperti²; Rainer Merkl²; Reinhard Sterner²; Vicki Wysocki¹; ¹The Ohio State University, Columbus, OHIO; ²Institute of Biophysics and Physical Biochemistry, University of Regensburg, Regensburg, Germany

Bogdan Dragnea¹; Martin F Jarrold¹; ¹Indiana

ThOE am 10:10 Double Mutant Cycles in the Gas Phase:
 Measuring Inter-protein Pairwise Interaction
 Energies from a Single Native Mass Spectrum;
 Jelena Cveticanin¹; Miri Sokolovski²; Deborah
 Hayoun¹; Amnon Horovitz²; Michal Sharon¹;
 ¹Department of Biomolecular Sciences, Weizmann
 Institute Of Science, Rehovot, Israel; ²Department
 of Structural Biology, Weizmann Institute of Science,
 Rehovot, Israel

8:30-10:30 am Thursday IMAGING: PHARMACEUTICALS, METABOLITES, AND LIPIDS Andreas Römpp (University of Bayreuth) Wabash level 1

ThOF am 08:30 A Multimodal Imaging Approach to Characterize Intramuscular and Subcutaneous Drug Depots of Cabotegravir; Reid Groseclose¹; Fang Xie¹; Beat Jucker¹; Hasan Alsaid¹; Manish Gupta¹; Stephen Castellino¹; ¹GlaxoSmithKline, King of Prussia, PA

ThOF am 08:50 Drug Localization at the Single Cell Level A Multimodal Mass Spectrometry Imaging
Approach; Neda Najafinobar¹; Lena von Sydow¹;
Mike J. Hickey¹; Chad S. Elmore¹; Michael E.
Kurczy¹; Magnus Klarqvist¹; Tineke Papavoine²;
Per Malmberg³; 'Astrazeneca, Mölndal, Mölndal;

²AstraZeneca R&D, Gothenburg, Sweden;
³Chalmers University of Technology, Gothenburg,
Sweden

ThOF am 09:10 Spatial Single-cell Metabolomics of Monolayer Cell Cultures with 10 um Resolution; Luca Rappez¹; Bachir El Debs¹; Andrew Palmer¹; Artem Tarasov¹; Vitaly Kovalev¹; Ivan Protsyuk¹; Mira Stadler²; Prasad Phapale¹; Megan Stanifer²; Joel Selkrig¹; Mathias Heikenwälder²; Steeve Boulant²; Nassos Typas¹; Theodore Alexandrov¹.³; ¹EMBL, Heidelberg, Heidelberg; ²German Cancer Research Center (DKFZ), Heidelberg, Germany; ³Skaggs School of Pharmacy, University of California San Diego. La Jolla. CA

ThOF am 09:30 Characterization of Diet-induced Molecular Changes in Ovarian Reserves of Aedes aegypti Using 3D-MSI-TOF-SIMS and MALDI FT-ICR MS;

Anthony Castellanos¹; Quentin Vanbellingen²; Paolo Benigni²; Veronika Michalkova²; Marcela Nouzova²; Fernando Noriega²; Francisco Fernandez-Lima²;

¹Florida International University, Miami, FL; ²Florida International University, Miami, FL

ThOF am 09:50

Molecular Insights of the Song Learning
Behaviour of Zebra Finch during Ontogeny with
Multimodal Mass Spectrometry Imaging; Nina
Ogrinc Potocnik¹; Julie Hamaide²; Tiffany Porta¹;
Garima Yadav²; Arnoud Prop¹; Annemie van der
Linden²; Ron MA Heeren¹; ¹M4i Institute, Division of
Imaging Mass Spectrometry, Maastricht University,
Maastricht, Netherlands; ²Bio-Imaging Lab,
University of Antwerp, Wilrijk, Belgium

ThOF am 10:10 Three-Dimensional MALDI MSI Reveals Distinct Metabolic Compartments and Unique Metabolite Distributions in Soybean Root Nodules; <u>Dusan Velickovic</u>¹; Beverly Agtuca²; Sylwia Stopka³;

THURSDAY MORNING ORAL SESSIONS

Akos Vertes³; David W. Koppenaal¹; Ljiljana Pasa-Tolic¹; Gary Stacey²; Christopher R Anderton¹; ¹Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Earth and Biological Sciences Directorate, Richland, WA; ²Divisions of Plant Sciences and Biochemistry, C. S. Bond Life Sciences Center, University of Missouri, Columbia, MO; ³Department of Chemistry, W. M. Keck Institute for Proteomics Technology and Applications, The George Washington University, Washington, DC

8:30-10:30 am Thursday GC/MS, GC/GC/MS, GC/MS/MS, AND GC/HRMS Tom Doherty (Agilent) Room 101-106 level 1

ThOG am 08:30 Comprehensive Steroid Analysis by GCxGC-TOFMS; Michael Groessl¹; Andrea Bileck¹; Sofia Verouti¹; Genevieve Escher¹; ¹University Hospital Bern, Bern, Switzerland

ThOG am 08:50 Application of Py-GCxGC/MS Combined with Chemometrics for the Elucidation of Ancient East Asian Papermaking Materials; Bin Han¹; Jérome Vial²; Masamitsu Inaba³; Michel Sablier¹; ¹Sorbonne Universités, Centre de Recherche sur la Conservation (CRC, USR 3224), Muséum national d'Histoire naturelle, Ministère de la Culture et de la Communication, CNRS, Paris, France; ²Department of Analytical, Bioanalytical Sciences and Miniaturization (LSABM), Institute of Chemistry, Biology and Innovation (CBI)–ESPCI ParisTech, CNRS UMR 8231, Paris, France; ³Conservation Science Laboratory, Graduate School of Conservation, Tokyo Geijutsu Daigaku, Taito-ku, Japan

ThOG am 09:10 Shifting the Paradigm in Gas Chromatography
Mass Spectrometry Pesticide Analysis by High
Resolution Mass Spectrometry; Samanta Uclés¹;
Ana Lozano¹; Francisco José Díaz-Galiano¹;
Amadeo R. Fernández-Alba¹; ¹European Union
Reference Laboratory for Pesticide Residues in Fruit
& Vegetables, ALMERÍA, Spain

ThOG am 09:30

GC-QTOFMS and GC-MS/MS with EI and CI as Highly Versatile Platforms for Metabolomics and Metabolic Flux Analysis in Biotechnology;

Teresa Mairinger^{1,2}; Christina Troyer¹; Wolfhard Wegscheider³; Juergen Zanghellini^{1,2}; Diethard Mattanovich^{1,2}; Gunda Koellensperger⁴; Stephan Hann^{1,2}; ¹BOKU-Vienna, Vienna, Austria; ²Austrian Centre of Industrial Biotechnology, Vienna, Austria; ³Montanuniversitaet Leoben, Leoben, Austria; ⁴University of Vienna, Vienna, Austria

ThOG am 09:50 **GC-MS with Cold EI for Improved Sample**Identification; <u>Aviv Amirav</u>¹; Alexander B. Fialkov¹;
Uri Keshet¹; Tal Alon¹; ¹Tel Aviv University, Tel Aviv,
Israel

ThOG am 10:10 Data Quality Assurance Methods for Seized-Drug Mass Spectral Libraries; Weihua Ji¹; William E. Wallace¹; Dmitrii V. Tchekhovskoi¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD

8:30-10:30 am Thursday FUNDAMENTALS FOR EVERYONE Nick Polfer (University of Florida) Room 107-110 level 1

ThOH am 08:30 Mass Resolution, Mass Resolving Power, Mass Accuracy, and Mass Calibration: State of the Art and Future Prospects; Alan G. Marshall¹,²; Lissa C Anderson¹; Greg T Blakney³; Yuri E Corilo³; Ryan P Rodgers³,⁴; Donald F Smith³; Chad R Weisbrod³;

Christopher L Hendrickson^{3, 4}; ¹Ion Cyclotron Resonance Program, NHMFL, Tallahassee, FL; ²Dept. of Chemistry & Biochemistry, Florida State University, Tallahassee, FL; ³ICR Program, NHMFL, Tallahassee, FL; ⁴Dept of Chemistry Biochemistry, Florida State University, Tallahassee, FL

ThOH am 08:50 How to Reconstruct Collision Cross Section
Distributions from Arrival Time Distributions
measured in Drift Tube IMS; Adrien Marchand¹;
Sandrine Livet¹; Solenne Delahaye¹; Frédéric Rosu²;
Valérie Gabelica¹; ¹University of Bordeaux, Pessac,
FR; ²IECB, Bordeaux, France

ThOH am 09:10 Mechanistic Insights Gained from Spontaneous Ionization Using Solid or Solvent Matrices;

Charles N. Mcewen^{1, 2}; Madeline A. Fenner¹; Khoa Hoang¹; Milan Pophristic²; ¹Univ. of the Sciences, Philadelphia, PA; ²MSTM, LLC., Newark, DE

ThOH am 09:30 Can Electrospray Ionization Tolerate High Concentrations (100+ mM) of Nonvolatile Salts?;

Anna C. Susa¹; Zijie Xia¹; Evan R. Williams²;

¹University of California, Berkeley, Berkeley, CA;

²University of California, Berkeley, Berkeley, CA

ThOH am 09:50 How Hot are Your Ions Really? Experimental Measurements of the Bond Energies of Benzylpyridinium "Thermometer" Ions; John E Carpenter¹; Christopher P. McNary¹; April Furin¹; Andrew Sweeney¹; Peter B. Armentrout¹; ¹University of Utah, Salt Lake City, UT

ThOH am 10:10 Making Ions Shine with Mass Spectrometry and UV/vis Spectroscopy: Powerful Potential and Potential Pitfalls; Rebecca A. Jockusch¹; Sydney M.J. Wellman²; Martin F. Czar²; Stephen V. Sciuto²; ¹University of Toronto, Toronto, ON, Canada; ²University of Toronto, Toronto, ON, Canada

10:30 am-2:30 pm Thursday THURSDAY POSTER SESSION Poster/Exhibit Hall

Lunch concessions are open 11:00 am-2:00 pm Odd-number posters present 10:30 am-1:00 pm Even-number posters present 12:00-2:30 pm



THURSDAY AFTERNOON ORAL SESSIONS

2:30-4:30 pm Thursday
INFORMATICS: DISCOVERY PROTEOMICS
Masaru Miyagi (Case Western University)
Hall D

ThOA pm 02:30 The Spectra-Cluster Toolsuite: Enhancing
Proteomics Analysis Through Spectrum
Clustering; Johannes Griss^{1, 2}; <u>Juan Antonio</u>
<u>Vizcaino</u>²; ¹Medical University of Vienna, KIMCL,
Vienna, No State/Province; ²EMBL-EBI, Cambridge,
Cambridgeshire

ThOA pm 02:50 Illuminating the "Dark Matter" of Shotgun
Proteomics Using MSFragger; Andy Kong¹; Dmitry
M. Avtonomov¹; Felipe Leprevost¹; Dattatreya
Mellacheruvu¹; Alexey Nesvizhskii¹; ¹University of
Michigan, Ann Arbor, MI

ThOA pm 03:10 Discovery of Fusion Peptides through Bottom-Up Proteomic Analysis Using Separate b and y-lon Databases; Zach Rolfs¹; Stefan K. Solntsev¹; Michael R. Shortreed¹; Brian L. Frey¹; Mark Scalf¹; Alan D. Attie¹; Lloyd M. Smith¹; ¹University of Wisconsin-Madison, Malison, WI

ThOA pm 03:30 Mango: A General Search Tool for CID-cleavage
Cross-linked Peptide Identification; Jared P.

Mohr¹; Poorna Perumalla¹; Juan D. Chavez¹; Jimmy
K Eng¹; James E. Bruce¹; ¹University of Washington
Genome Sciences, Seattle, WA

ThOA pm 03:50 Predicting Kinase-Substrate Associations Using Patterns of Co-Phosphorylation; Marzieh Ayati¹; Danica Wiredja²; Daniela Schlatzer²; Sean Maxwell²; Mehmet Koyuturk¹,²; Mark R. Chance²; ¹Case Western Reserve University, Cleveland, OH; ²Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH

ThOA pm 04:10 Network Discovery of Chronologically
Conserved Proteome Dynamics between the
Cells and the Tissues; Mahbubur Rahman¹;
Rovshan Sadygov¹; 'UTMB, Galveston, TX

2:30-4:30 pm Thursday HRMS FOR QUANTITATION IN DRUG DISCOVERY, DEVELOPMENT AND BEYOND Martha Stapels (Sanofi) 500 Ballroom level 1

ThOB pm 02:30 High Mass Analysis and Signal Processing on an FT-ICR: From Native Monoclonal Antibodies to Antibody Drug Conjugates and Beyond; lain D. G. Campuzano¹; Steve Van Orden²; Huilin Li³; David Kilgour⁴; Jennifer L Lippens¹; Michael Nshanian³; Chawita Netirojjanakul¹; Piriya Wongkongkathep³; Pascal F Egea³; Joseph A Loo³; ¹Amgen Inc., Thousand Oaks, CA; ²Bruker Daltonic, Billerica, MA; ³University of California, Los Angeles, Los Angeles, CA; ⁴Nottingham Trent University, Nottingham, UK

ThOB pm 02:50 Discovery of Sequence Variants during IgG1
Monoclonal Antibody Cell Line Selection by
High-throughput LC-MS Analysis; Yan Wang¹;
Chongfeng Xu¹; Zoran Sosic¹; Li Zang¹; ¹Biogen,
Cambridge, MA

ThOB pm 03:10 Role of Copper Incorportation from CuATSM in the Turnover of SOD1 in ALS Mouse Models;

Joe Beckman¹; Blaine Roberts²; Valery G. Voinov³; Yury Vasil'ev³; ¹Oregon State University, Corvallis, OR; ²Florey Institute of Neuroscience, Melbourne, Australia; ³e-MSion, Corvallis, OR

ThOB pm 03:30 ETD and CID MS/MS Analysis at 21 T and X-Ray Crystallography Define Structural Differences in Variants of 45 kDa Proteins; Lissa Anderson¹; Maria Håkansson²; Björn Walse²; Carol Nilsson ³.³;

1NHMFL, Tallahassee, FL; 2SARomics Biostructures AB, Lund, Sweden; 3Lund University, Lund, Sweden

ThOB pm 03:50 High Resolution Mass Spectrometry towards
Targeted Residual CHO Protein Quantification;
Matt Schenauer¹; Doug Rehder¹; Darren Brown¹;
¹Gilead Sciences, Oceanside, CA

ThOB pm 04:10 Understanding the Metabolism of the Anticancer Drug Triapine Using Electrochemistry AND Liquid Chromatography Coupled to Mass Spectrometry (EC/LC/MS); Karla Pelivan¹; Lisa Frensemeier²; Uwe Karst²; Gunda Koellensperger³; Petra Heffeter⁴; Walter Berger⁴; Christian Kowol¹; Bernhard Keppler¹; ¹Institute of Inorganic Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria; ²Institute of Inorganic and Analytical Chemistry, University of Muenster, Muenster, Germany; ³Institute of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria; ⁴Institute of Cancer Research, Medical University of Vienna, Vienna, Vienna, Vienna, Austria

2:30-4:30 pm Thursday TOP DOWN PROTEIN ANALYSIS Brandon Rutolo (University of Michigan) Sagamore 1-3 level 2

ThOC pm 02:30 Top-Down Mass Spectrometry of Large Proteins up to 223 kDa Enabled by Serial Size Exclusion Chromatography; Trisha Tucholski¹; Wenxuan Cai¹; Bifan Chen¹; Andrew J Alpert²; Samantha Knott¹; Ying Ge¹; ¹University of Wisconsin, Madison, Madison, WI; ²PolyLC Inc., Columbia, MD

ThOC pm 02:50 Autopiquer - New Developments in Robust Peak Picking for Mass Spectra; David P. A. Kilgour¹; Anton N. Kozhinov²; Konstantin O. Nagornov²; Samantha L. Kilgour³; Manuela Tosin³; Sam Hughes⁴; Colin Logan Mackay⁴; Magnus Palmblad⁵; David J. Clarke⁴; David Boocock¹; Yury O. Tsybin²; ¹Nottingham Trent University, Nottingham, UK; ²Spectroswiss Sàrl, Lausanne, Switzerland; ³University of Warwick, Coventry, UK; ⁴University of Edinburgh, Edinburgh, UK; ⁵Leiden University Medical Center, Leiden, Netherlands

ThOC pm 03:10 Characterization of Surface Induced
Dissociation (SID) as a Top-Down Fragmentation
Technique; Alyssa Q. Stiving¹; Joshua D. Gilbert¹;
Vicki H. Wysocki¹; ¹The Ohio State University,
Columbus. OH

ThOC pm 03:30 Elucidation of Combinatorial Post Translational Modifications (PTMs) of Histones via Top-Down Analysis Using 193 nm Ultraviolet Photodissociation (UVPD); Sylvester Greer¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin. TX

ThOC pm 03:50 Developments in Instrumentation and Data Acquisition Methods for Top-down 21 T FT-ICR Proteomics; Lissa C. Anderson¹; Chad R. Weisbrod¹; Nathan K. Kaiser¹; Greg T. Blakney¹; Christopher L. Hendrickson¹.²; Alan G. Marshall¹.²; ¹lon Cyclotron Resonance Program, NHMFL, Tallahassee, FL; ²Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL

ThOC pm 04:10 The Omni-trap: A New Processing Cell Equipped with an Extensive Arsenal of Ion Activation Techniques for Top-down Mass spectrometry;

Dimitris Papanastasiou¹; Diamantis Kounadis²;

Alexander Lekkas²; Andreas Bozatzidis²; Ioannis Orfanopoulos²; Emmanuel Raptakis²; Maria Reinhardt-Szyba³; Eugen Damoc³; Alexander Makarov³; Roman Zubarev⁴; ¹Fasmatech,

Athens, Attiki; ²Fasmatech Science & Technology,

Athens, Greece; ³Thermofisher, Bremen, Bremen;

¹Karolinska Institute, Stockholm, Uppland

2:30-4:30 pm Thursday CARBOHYDRATES Brad Bendiak (University of Colorado HSC) Sagamore 4 level 2

ThOD pm 02:30 Glycoanalysis with Cold Ion Spectroscopy and Ion Mobility: Study of Glycosaminoglycans and Human Milk Oligosaccharides; Neelam Khanal¹; Chiara Masellis²; Michael Z. Kamrath²; David E Clemmer¹; Thomas R. Rizzo²; *Indiana University, Bloomington, IN; *2EPFL, Lausanne, Switzerland

ThOD pm 02:50 Disentangling Carbohydrate Isomer Mixtures via Combination of Metal Ion Binding,
Gas-Phase Ion Chemistry, Tandem Mass Spectrometryand Ion Mobility Spectrometry;
Katherine Schumacher¹; Eric D. Dodds¹; ¹University of Nebraska - Lincoln, Lincoln, NE

ThOD pm 03:10 Electronic Excitation Dissociation
Characterization of Native Glycans Derivatized
with a Reducing-End Fixed Charge; Yang Tang¹;
Yi Pu¹; Catherine E. Costello¹; Cheng Lin¹; ¹Boston
University. Boston. MA

ThOD pm 03:30 Identifying Carbohydrate Isomers via an Ion/
Molecule Reaction with Water; Matthew T.

Campbell¹; Gary L. Glish¹; ¹University of North
Carolina at Chapel Hill, Chapel Hill, NC

ThOD pm 03:50 An Integrated Capillary ElectrophoresisMass Spectrometry Platform for the Analysis of Glycosaminoglycan Mixtures; Patience
Sanderson¹; Morgan Stickney²; Franklin E Leach III²; James Xia³; Yanlei Yu⁴; Fuming Zhang⁵; Robert J
Linhardt⁴; Jonathan I Amster²; ¹University of Georgia, Athens, GA; ²University of Georgia, Athens, GA; ³CMP Scientific, Corp., Brooklyn, NY; ⁴Rensselaer Polytechnic Institute, Troy, NY; ⁵Rensselaer Polytechnic Institute, Troy, NY

ThOD pm 04:10 Cationized Carbohydrate Fragmentation
Chemistry: Influence of Glycosidic Linkage
Position and Stereochemistry; Benjamin Bythell¹;
Jordan M Rabus¹; Maha T. Abutokaikah¹; ¹University
of Missouri-St. Louis. St. Louis. MO

2:30-4:30 pm Thursday PROTEIN-LIGAND INTERACTIONS Robert Cole (Johns Hopkins University) Sagamore 5-7 level 2

ThOE pm 02:30 Novel Methodology for Pulldown of RNA-Binding Proteins and Application to let-7 miRNAs;

Lisa Jenkins¹; Genevieve Di Tomasso²; Pascale Legault²; ¹National Cancer Institute, Bethesda, MD; ²Université de Montréal, Montréal, QC, Canada

ThOE pm 02:50 Improved Identification of Ligand Binding
Sites in Integral Membrane Proteins; Melissa
M Budelier¹; Wayland W.L Cheng¹; Zi-Wei Chen¹;
Douglas F Covey¹; James W Janetka¹; Alex S
Evers¹; ¹Washington University, St Louis, MO

ThOE pm 03:10 On Chip Interaction Proteomics for Low Input Protein Samples; Cristina Furlan¹; René A.M.
Dirks¹; Peter Thomas²; Robert C. Jones²; Hendrik Marks¹; Michiel Vermeulen¹; ¹Radboud University, Nijmegen; ²Fluidigm Corporation, South San Francisco, CA

ThOE pm 03:30 Native Top-Down Mass Spectrometry used for the Characterization of Novel Metal Binding by Endogenous Proteins and Complexes; Nicole

A. Haverland¹; Owen S. Skinner¹; Luca Fornelli¹; Areeba A. Tariq¹; Luis F. Schachner¹; Philip

D. Compton¹; Neil L. Kelleher¹; ¹Northwestern

University, Evanston, IL

ThOE pm 03:50 Contributions of Individual Ligands to the Structural Stability of an Iron Binding Protein

During an Unfolding Transition; <u>Daniel W. Woodall</u>¹; Tarick J. El-Baba¹; Wen Liu²; Yang Liu²; Arthur Laganowsky²; David E. Clemmer¹; ¹Indiana University, Bloomington, IN; ²Texas A&M University, College Station, TX

ThOE pm 04:10 Online Monitoring of Enzymatic Reactions
Using Time-Resolved Desorption Electrospray
Ionization Mass Spectrometry; Hao Chen¹; Si
Cheng¹; Qiuhua Wu¹; ¹Ohio University, Athens, OH

2:30-4:30 pm Thursday IMAGING: BIOMEDICAL APPLICATIONS Troy Wood (SUNY Buffalo) Wabash level 1

ThOF pm 02:30 Tumor Margin Determination during
Neurosurgery using DESI; R. Graham Cooks 1;
Valentina Pirro2; Clint Miles Alfaro2; Alan Jarmusch2;
Eyas M Hattab3; Aaron A Cohen-Gadol4; 1Purdue
University, West Lafayette, IN; 2Purdue University,
West Lafayette, IN; 3Indiana University, Bloomington,
IN; 4Indiana University-Purdue University,
Indianapolis, IN

ThOF pm 02:50 Predicting ER, PR, and HER2 Status in Breast Cancer Using Metabolic Markers by DESI-MS Imaging; Kyana Garza¹; Raquel Mary Rodrigues Peres²; Andréia M Porcari²; Jialing Zhang¹; Jonathan Young¹; Robert J. Tibshirani³; Geisilene Russano de Paiva²; Wendong Yu⁴; Chandandeep Nagi⁴; Marcos N. Eberlin²; Luis O. Zanatta Sarian²; Livia S. Eberlin¹; ¹University of Texas at Austin, Austin, TX; ²State University of Campinas, Campinas, Brazil; ³Stanford University, Stanford, CA; ⁴Baylor College of Medicine, Houston, TX

ThOF pm 03:10 Molecular and Elemental Mass Spectrometry Imaging of Photosensitizers in Human Brain Tumors after Fluorescence-guided Resection; Sabrina Kröger¹; Ann-Christin Niehoff¹; Astrid Jeibmann²; Walter Stummer³; Uwe Karst¹; ¹University of Münster, Institute of Inorganic and Analytical Chemistry, Münster, Germany; ²University Hospital of Münster, Institute of Neuropathology, Münster, Germany; ³University Hospital of Münster, Department of Neurosurgery, Münster, Germany

ThOF pm 03:30

Building an Accurate Model of the Invasive
Tumor Microenvironment with Colon Carcinoma
Three Dimensional Tumor Spheroids; Eric M.
Weaver¹; Pinar Zorlutuna¹.²; Amanda B. Hummon¹.
³; 'Harper Cancer Research Institute, University
of Notre Dame, Notre Dame, IN; ²Department
of Aerospace and Mechanical Engineering,
Bioengineering Graduate Program University of
Notre Dame, Notre Dame, IN; ³Department of
Chemistry and Biochemistry, University of Notre
Dame, Notre Dame, IN

ThOF pm 03:50 Mapping Non-alcoholic Fatty Liver Disease
Progression with Mass Spectrometry Imaging;
Zoe Hall¹; Nicholas J Bond¹; Tom Ashmore¹; Julian
L Griffin¹; ¹Department of Biochemistry, University of
Cambridge, Cambridge, UK

ThOF pm 04:10 Characterization of Single Fluorescent Motor
Neurons in Amyotrophic Lateral Sclerosis (ALS)
Mouse Brains via MALDI Mass Spectrometry
Imaging (MSI); Catherine M. Rawlins¹; David
Calligaris²; Jared R. Auclair¹; April J. Harry¹.³; Kylie
A. Bemis¹; Ed Luther¹; Olga Vitek¹; Nathalie Y.R.
Agar²; Jeffrey N. Agar¹; ¹Northeastern University,
Boston, MA; ²Brigham and Women's Hospital,
Harvard Medical School, Boston, MA; ³Purdue
University, West Lafayette, IN

THURSDAY AFTERNOON ORAL SESSIONS

2:30-4:30 pm Thursday INSTRUMENTATION: INNOVATIVE SEPARATIONS APPROACHES COUPLED TO MS Many Witth (Purdue University)

Mary Wirth (Purdue University)
Room 101-106 level 1

ThOG pm 02:30 A Method and a Hyphenated to Mass Spectrometry Device for Isolation, Detection and Quantification of Abnormal Proteoforms in blood; Roman Zubarev; Karolinska Institute, Stockholm, Uppland

ThOG pm 02:50 Discovery Bottom-up Proteomic
Characterization for Limited Populations of
Neurons by Ultrasensitive CE-nanoESI-MS;
Sam Choi¹; Marta Zamarbide¹; M. Chiara Manzini¹;
Peter Nemes²; ¹George Washington University,
Washington, DC; ²George Washington University,
Washington, DC

ThOG pm 03:10 Chip-Based Capillary Electrophoresis Mass Spectrometry (CE/MS) for Rapid Intact Mass and Structure Analysis for Large and Small Molecules; Tawnya Flick¹; Laura Blue²; Shawn Pope²; J. Scott Mellors³; ¹Amgen Inc., Thousand Oaks, California; ²Amgen, Thousand Oaks, CA; ³908 Devices Inc., Boston, MA

ThOG pm 03:30 An MS Based Rapid Alternative to Western Blotting; Fred Regnier¹; Jinhee Kim²; Christian Vukas²; ¹Purdue University / Novilytic, Carmel, IN; ²Novilytic LLC, West Lafayette, IN

ThOG pm 03:50 Accumulation and Compression of Billions of Ions Using CRIMP in SLIM Significantly Improves Sensitivity and Ion Mobility Resolution; Liulin Deng¹; Sandilya Garimella¹; Ahmed Mohamed Hamid¹; Ian K Webb¹; Xueyun Y Zheng¹; Roza Wojcik¹; Spencer A Prost¹; Gordon A Anderson¹; Erin S Baker¹; Yehia M Ibrahim¹; Richard D. Smith¹; ¹Pacific Northwest National Laboratory, Richland. WA

ThOG pm 04:10 Analysis of Proteins, Protein Complexes and Protein-Ligand Interactions using Size Exclusion Chromatography-High Resolution Mass Spectrometry; Aniruddha Sahasrabuddhe¹; Florian Busch¹; Zachary VanAernum¹; Brian Rivera²; Vicki Wysocki¹; ¹The Ohio State University, Columbus, OH; ²Phenomenex, Inc., Torrance, CA

2:30-4:30 pm Thursday
ENERGY, PETROLEUM, AND BIOFUELS:
INSTRUMENTATION AND APPLICATIONS
Ryan Rodgers (National High Magnetic Field Lab)
Room 107-110

ThOH pm 02:30 High-temperature GC×GC with 70eV EI and 10.5eV SPI Nominal and High-resolution TOFMS for the Characterization of Heavy Petroleum Matrices; Maximilian Jennerwein¹.²; Uwe Kaefer².³; Ralf Zimmermann².³; Juergen Wendt⁴; Thomas Wilharm¹; Thomas Groeger³; ¹ASG Analytik Service-Gesellschaft mbH, Neusäss, Germany; ²Joint Mass Spectrometry Centre / Chair of Analytical Chemistry, University of Rostock, Rostock, Germany; ³Joint Mass Spectrometry Centre / Cooperation Group Comprehensive Molecular Analytics, Helmholtz Zentrum München, Neuherberg, Germany; ⁴LECO European Application & Technology Centre, Berlin, Germany

ThOH pm 02:50 Understanding the Structural Space of Hydrocarbons in Crude Oil Using TIMS-FT-ICR MS; Paolo Benigni¹; Mark E. Ridgeway²; Melvin A Park²; Francisco Fernandez-Lima^{1,3}; ¹Florida Intl University, Miami, FL; ²Bruker Daltonics, Billerica, MA; ³Biomolecular Sciences Institute, Miami, FL

ThOH pm 03:10 Application of Selective Labeling Reactions to Explore Structure of Fossil Humic

Substances by FT ICR MS; Alexander Zherebker^{1,2}; Yury Kostyukevich^{2,3,4}; Alexey S Kononikhin^{2,4,5}; Oleg Kharybin³; Irina V Perminova¹; Eugene (Evgeny) Nikolaev^{2,3,4,5}; ¹Lomonosov Moscow State University, Department of Chemistry, Moscow, Russia; ²Institute for Energy Problems of Chemical Physics of RAS, Moscow, Russia; ³Skolkovo Institute of Science and Technology, Skolkovo, Russia; ⁴Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow, Russia; ⁵Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia

ThOH pm 03:30 Rapid Characterization of Polyalphaolefins
Using Atmospheric Pressure Photoionization
and Atmospheric Solid Analysis Probe Coupled
to Ion Mobility - Mass Spectrometry; Anna Luiza
Mendes Siqueira^{1,2}; Mathieu Beaumesnil^{1,2}; Corinne
Loutelier-Bourhis²; Carlos Afonso²; Amandine
Racaud¹; ¹TOTAL Marketing & Services, Research
Center, Solaize, France; ²Normandie Univ.,
UNIROUEN, INSA Rouen, CNRS, COBRA, Rouen,

ThOH pm 03:50 Composition Analysis of Aviation Fuels and Fuel Additives for Rational Development of Renewable Aviation Fuels; Katherine Wehde¹; Mark Romanczyk¹; Petr Vozka²; Jorge Ramirez Velasco³; Rodney Trice³; Gozdem Kilaz²; Hilkka Kenttamaa¹; ¹Department of Chemistry, Purdue University, West Lafayette, IN; ²Department of Aviation Technology, Purdue University, West Lafayette, IN; ³Department of Materials Engineering, Purdue University, West Lafayette, IN

France

ThOH pm 04:10 Complementarity of ESI, APPI and LDI FT-ICR
MS Analyses for the Comprehensive Description
of Raw and Deoxygenated Pyrolysis Bio-oils;

Jasmine Hertzog¹; Vincent Carré¹; Liangyuan Jia²;
Yann Le Brech²; Ludovic Pinard³; Colin Logan
Mackay⁴; Ondřej Mašek⁵; Anthony Dufour²; Frédéric
Aubrie¹; ¹LCP-A2MC - Université de Lorraine, Metz,
France; ²LRGP - Université de Poitiers, Poitiers,
France; ³IC2MP - Université de Poitiers, Poitiers,
France; 4School of Chemistry - University of
Edinburgh, Edinburgh, UK; ⁵UK Biochar Research
Center - University of Edinburgh, Edinburgh, UK

4:45-5:30 pm Thursday
PLENARY LECTURE
Richard A. Yost (University of Florida)
Hall D level 1



Saving the Great Coral Reefs

Kristen Marhaver Research Station Carmabi

6:30-9:00 pm Thursday CLOSING EVENT INDIANA STATE MUSEUM

Advance purchase ticket is required (\$30).

POSTER OVERVIEW



ODD-NUMBERED POSTERS PRESENT 10:30 AM - 1:00 PM, EVEN-NUMBERED POSTERS PRESENT 12:00 - 2:30 PM.

MONDAY POSTERS

Set up all Monday posters7:30 – 8:00 am Odd-numbered posters present10:30 am - 1:00 pm Remove all Monday posters7:30 – 8:00 pm Ambient Ionization: Fundamentals and Instrumentation001 - 016 Antibodies & Antibody Drug Conjugates I......017 - 027 Biomolecular Structure Analysis: Chemical Crosslinking and Covalent Labeling I......051 - 071 Drug Discovery/DMPK/ADME120 - 150 Education: Teaching MS and Teaching with MS......151 - 157 Energy: Hydrocarbon and Petrochemical......158 - 181 Fundamentals: Metal Ion Cationization. Metal-Ligand Interactions, Catalysis......240 - 249 GC/MS: Instrumentation and Applications I......254 - 274 Imaging MS: Disease Markers275 - 309 Informatics: Peptide ID and Quantification310 - 341 Instrumentation: New Developments in Ionization and Sampling I......342 - 363 LC/MS: Sample Preparation I......390 - 405 Lipids: Profile Analysis I......406 - 431 Metabolomics: General......432 - 463 Metabolomics: Untargeted Metabolite Profiling I......496 - 519 Peptides: Targeted and Quantitative Analysis I520 - 538 Plant "omics"......539 - 561 Proteins: Complexes/Non-covalent Interactions I......562 - 592 Proteomics: New Approaches593 - 632 Proteomics: Top Down Analysis I653 - 665

TUESDAY POSTERS

7:30 – 8:00 an
.10:30 am – 1:00 pn
12:00 – 2:30 pn
7:30 – 8:00 pn
001 - 02
026 - 089
090 - 11
112 - 13
138 - 14
146 - 156
157 - 183
184 - 21
216 - 24
242 - 269
270 - 29
298 - 324
325 - 350
351 - 369
370 - 378
379 - 40
ı 402 - 434
435 - 464
465 - 490
491 - 503
504 - 52
528 - 536
537 - 556
557 - 568
569 - 60
602 - 652
653 - 679
680 - 70
706 - 72

Toxicology......707 - 721

POSTER OVERVIEW



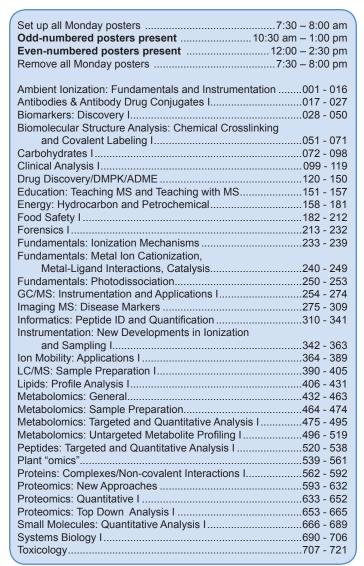
ODD-NUMBERED POSTERS PRESENT 10:30 AM - 1:00 PM. EVEN-NUMBERED POSTERS PRESENT 12:30 - 2:30 PM.

WEDNESDAY POSTERS

Set up all Wednesday posters7:30 – 8:00 am Odd-numbered posters present10:30 am - 1:00 pm Remove all Wednesday posters7:30 – 8:00 pm Ambient Ionization: Applications II.......001 - 034 Drug Metabolism: Qualitative and High Energy: Biofuels and Algae116 - 126 Exposomics Methodologies and Research Results162 - 163 Food "omics" MS Characterization of Food and H/D Exchange: Hardware, Software and Methodology......255 - 274 Imaging MS: Computational Methods and Analysis275 - 280 Imaging MS: Instrumentation......281 - 291 Imaging MS: Sample Preparation......292 - 306 Informatics: General. SRM. and DIA313 - 322 Instrumentation: Mini/Portable/Fieldable MS......336 - 345 Isotope Labeling and Fluxomics Applications......393 - 403 Lipids: ID and Structural Analysis......404 - 422 MALDI: Fundamentals and Instrumentation.......423 - 429 Metabolomics: Clinical Applications......430 - 446 Metabolomics: Identification of Unknown Metabolites......447 - 465 Microorganisms: Identification and Characterization......484 - 512 Nanoscale and Microfluidic Separations and MS......513 - 522 Natural Products......523 - 542 Nucleic Acids and Oligonucleotides II......543 - 563 Peptides: Sequence Analysis564 - 575 Peptides: Targeted and Quantitative Analysis II576 - 594 Phosphopeptides: Enrichment Methods......595 - 603 Proteomics: Intact Proteins. 677 - 686

THURSDAY POSTERS

Set up all Thursday posters	
Odd-numbered posters present	
Even-numbered posters present	
, , , , , , , , , , , , , , , , , , , ,	
Biomarkers: Discovery II	001 - 024
Biomarkers: Quantitative Analysis III	025 - 051
Biomolecular Structure Analysis: Chemical	
Crosslinking and Covalent Labeling II	
Clinical Analysis II	
Disease Biomarkers	105 - 131
Drug and Metabolite Analysis: Novel Approaches for Dried Biological Samples	132 - 143
Environmental: General II	144 - 175
Fundamentals: Ion Molecule, Ion/Ion, Ion/Electron Interactions	176 - 201
H/D Exchange: Protein Structure/Function	202 - 228
High Mass Accuracy/High Performance MS: Applications and Instrumentation	220 - 255
Imaging MS: Method Development	
Imaging MS: Pharmaceutical Applications	
Informatics: Algorithms and Statistical Advances	
Informatics: Workflow and Data Management	
Instrumentation: New Developments in Ion Detecti	
Ion Mobility: FAIMS/DMS	
Ion Mobility: Fundamentals	
LC/MS: Chromatography and Software	
Lipids: Profile Analysis II	
Lipids: Targeted and Quantitative Analysis	
MALDI: Applications	
Metabolomics: Untargeted Metabolite Profiling III	
Peptides: Fragmentation Mechanisms	
Peptides: PTM Identification	
Peptidomics	
Phosphopeptides: Quantitative Analysis	
Protein Therapeutics: Structural Characterization	
Proteins: Complexes/Non-covalent Interactions II	
Proteins: Conformation Analysis and Structural Bio	
Proteomics: Clinical Applications	
Proteomics: Tissue	
Small Molecules: Quantitative Analysis III	699 - 722



AMBIENT IONIZATION: FUNDAMENTALS AND INSTRUMENTATION

001 - 016

MP 001	Exploration of Mixed-gas Flowing Atmospheric-	
	Pressure Afterglow as an Atmospheric Pressure	
	Chemical Ionization and Photoionization Source for	
	Mass Spectrometry; Sunil Badal ¹ ; Jessica Hellinger ¹ ;	
	Jacob Shelley ¹ ; ¹ Department of Chemistry and Chemical	
	Biology, Rensselaer Polytechnic Institute, Troy, NY	
MP 002	In-vivo Endoscopic Mass Spectrometry with Moving	

MP 002 In-vivo Endoscopic Mass Spectrometry with Moving String as Sampling Probe; Lee Chuin Chen; University of Yamanashi, Kofu, Yamanashi

MP 003 Multi-mode Reactive Nano-electrospray Ion Source for Droplet Chemistry using Picoliter Samples; <u>Dmytro Kulyk</u>¹; Abraham K. Badu-Tawiah²; ¹The Ohio State University, Columbus, Ohio; ²The Ohio State University, Columbus, OH

MP 004 Ambient Nanoparticle and Plasma Assisted Laser Desorption Ionization Mass Spectrometric Methods (Ambient nanoPALDI MS) for Live Tissue Analysis; Jae Young Kim¹; Eun Seok Seo¹; Hyunmin Kim²; Dong-Kwon Lim³; Dae Won Moon¹; ¹Department of New Biology, DGIST, Daegu, South Korea; ²Division of Nano and Energy Convergence Research, DGIST, Daegu, South Korea; ³KU-KIST Graduate School of Converging Science and Technology, Korea University, Seoul, South Korea

Ambient Chemical Analysis of Biological Tissues by the Combination of Extractive Electrospray Ionization Mass Spectrometry with High-Frequency Resonance Field Desorption; Vladimir Frankevich¹; Vitaliy V Chagovets¹; Xinchen Wang²; Alisa Tokareva¹; Alexey S Kononikhin¹; Konstantin Chingin²; Huanwen Chen²; Gennady Sukhikh¹; ¹Federal State Budget Institution "Research Center for Obstetrics, Gynecology and Perinatology" Ministry of Healthcare of the Russian Federation, Moscow, Russia; ²Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China University of Technology, Nanchang, China

MP 006 Innovations in Liquid Microjunction Surface Sampling Probe Mass Spectrometry; Louis Searcy¹; Arun Wanchoo²; Cuong Nguyen²; Timothy J. Garrett²; Richard A Yost²; ¹University of Florida, Gainesville, FL; ²University of Florida, Gainesville. FL

MP 007 Multimodal Imaging Combining Fluorescence
Microscopy and Laser Ablation Electrospray Ionization
Mass Spectrometry; Sylwia A Stopka¹; Beverly J
Agtuca²; Christopher R Anderton³; Rikkita Khattar¹; David
W Koppenaal³; Ljiljana Pasa-Tolic³; Gary Stacey²; Akos
Vertes¹; ¹George Washington University, Washington, DC;
¹University of Missouri, Columbia, MO; ³Pacific Northwest
National Laboratory, Richland, WA

MP 008 Development of a Continuous Flow Infrared MALDESI Source for Online LC/MS Analysis of Peptides and Proteins; Koichi Kimura¹; Hisanao Hazama¹; Kunio Awazu¹.².³; ¹Graduate School of Engineering, Suita, Japan; ²Graduate School of Frontier Biosciences, Suita, Japan; ³Global Center for Medical Engineering and Informatics, Osaka University, Suita, Japan

MP 009 Analytical Validation of a Portable MS System Featuring Interchangeable, Ambient Ionization Sources during Field Operation; Shahnaz Mukta¹; Zachary E. Lawton¹; William L. Fantigante¹; Herbert Oberacher²; Christopher C. Mulligan¹; ¹Illinois State University, Normal, IL; ²Innsbruck Medical University, Innsbruck, Austria

MP 010 Compact Laser Ablation Microwave Plasma Ionization for Ambient Molecular and Atomic Analysis; Gaston D.

Merideth II¹; Kelsey R. May¹; Kenyon Evans-Nguyen¹; ¹The University of Tampa, Tampa, FL

MP 011 Novel Ambient Ionization Source for Real-Time Breath Analysis; Michael Wei¹; Christopher Gongar¹; Michael Costanzo²; Jared Boock³; Richard A. Yost¹; ¹University of Florida, Gainesville, FL; ²Breathtec Biomedical, Inc., Gainesville, Florida; ³Cannabix Technologies, Gainesville,

MP 012 Theta Emitters for Fast Mixing: Hydrogen-Deuterium Exchange, Ion Form; Zijie Xia¹; Evan R. Williams¹;
¹University of California, Berkeley, Berkeley, CA

MP 013 Coated Blade Spray: Shifting the Paradigm of Direct Sample Introduction to Mass Spectrometry; German Augusto Gomez-Rios¹; Marcos Tascon¹; Nathaly Reyes Garces¹; Daniel Rickert¹; Ezel Boyaci¹; Justen J Poole¹; Karol Jaroch²; Barbara Bojko¹.²; Janusz Pawliszyn¹; ¹University of Waterloo, Waterloo, Ontario; ²Nicolaus Copernicus University in Torun, Bydgoszcz, Poland

MP 014 Molecularly Imprinted Membrane Electrospray Ionization for Direct Sample Analyses; Mei Zhang; Chinese CDC, Beijing, China

MP 015 Comparison of the Novel UniSpray Ion Source to A Range of Alternative Atmospheric Pressure Ionization Sources; Eleanor Riches¹; G. John Langley²; Julie M. Herniman²; ¹Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK; ²Faculty of Natural and Environmental Sciences, Chemistry, University of Southampton, Highfield, UK



ANTIBODIES & ANTIBODY DRUG CONJUGATES I 017 - 027

- MP 017 Accurate Mass Determination of Intact Monoclonal Antibody Charge Variants, Including Deamidation Products, using CZE-CZE-QqTOF-MS; Kevin Jooß^{1, 2}; Jens Hühner^{1, 3}; Christian Neusüß¹; ¹Aalen University of Applied Sciences, Aalen, Germany; ²Helmholtz Zentrum München, Neuherberg, Germany; ³University of Tübingen, Tübingen, Germany
- MP 018 Robust and Sensitive Workflow for Qualitative and Quantitative Analysis of Intact Monoclonal Antibodies Using Microflow LC and TripleTOF Mass Spectrometry; Gavin Fischer: Redwood City
- MP 019 Analysis of Bispecific mAb by Size Exclusion
 Chromatography and Mass Spectrometry; Keegan
 Gike¹; Atis Chakrabarti¹; ¹Tosoh Bioscience LLC, King of
 Prussia, PA
- MP 020 Charge Heterogeneity Analysis of Intact Monoclonal Antibodies using CESI-MS; Esme Candish¹; Christopher Loessner²; Stephen J. Lock³; Olga Friese⁴; Elaine Stephens⁵; Jason C. Rouse⁵; Bryan Fonslow¹; ¹SCIEX, Brea, CA; ²SCIEX, Darmstadt, Germany; ³SCIEX, Warrington, UK; ⁴Biotherapeutics Pharm. Sci., Pfizer Inc., St. Louis, MO; ⁵Biotherapeutics Pharm. Sci., Pfizer Inc., Andover MA
- MP 021 Manipulation of Chromatographic Conditions to Maximize the LC/MS Effectiveness; Suresh Babu Cv¹; Ning Tang²; Anne Blackwell³; ¹Agilent Technologies, Santa Clara, CA; ³Agilent Technologies, Wilmington, DE
- MP 022 A Quick and Simple Approach for Confirmation of Isomerization and Racemization of Aspartate in Asp-Asp Motifs of a Therapeutic Protein; Weitao Jia¹; Xiaoxiao Liu¹; Jennifer Zhang¹; ¹Genentech, Inc, South San Francisco. CA
- MP 023 High-throughput Mass Spectrometric Analysis: From Covalently Labeled Proteins to Antibody Drug Conjugates; Chawita Netirojjanakul¹; Iain D. G. Campuzano¹; Tisha San Miguel¹; Aiko Umeda¹; Jason Long¹; ¹Amgen, Thous
- MP 024 High Resolution LC/MS Separation and Characterization of Chemoenzymatic Site-specific Engineered Antibody-Drug Conjugates (ADCs);
 Shanhua Lin¹; Terry Zhang²; Brian Agnew³; Jonathan Josephs²; Xiaodong Liu⁴; †Thermo Fisher Scientific, Sunnyvale, CA; †Thermo Fisher Scientific, San Jose, CA; *Thermo Fisher Scientific, Eugene, OR; †Thermo Fisher Scientific, Sunnyvale, CA
- MP 025 Development of a High-Throughput Workflow to Characterize Bispecific Antibody Variants; Michael

 Bacica¹; Yaqiong Lin¹; Jing Zhuo¹; Marissa M Horn¹; Karen
 J Froning¹; Jonathan Fittchett¹; Bryan E. Jones¹; ¹Lilly
 Research Labs, San Diego, CA
- MP 026 Characterization of Monoclonal Antibodies and Antibody Drug Conjugates using Microfluidic CE-MS Technology; Erin Redman¹; Joshua P. Guerrette¹; Michael P. Goodwin²; J. Scott Mellors¹; ¹908 Devices, Inc., Carrboro, NC; ²908 Devices Inc., Boston, MA
- MP 027 A Novel Capillary Isoelectric Focusing Mass Spectrometry (cIEF-MS) Technique for Monoclonal Antibody Charge Variants Analysis; Jun Dai¹; Yingru Zhang²; Fahim Sarah Zarrin³; Rena Wang³; James Xia³; Wayne Heacock⁴; Dat Phan⁴; Dawn Stickle⁴; John Sausen⁴; ¹Bristol-Myers Squibb, Princeton, NJ; ²Bristol-Myers Squibb, Princeton, NJ; ³CMP Scientific, Corp., Brooklyn, N.Y.; ⁴Agilent Technologies, Inc., Wilmington, DE

BIOMARKERS: DISCOVERY I 028 - 050

- MP 028 Tumor Specific Signature Pathway Showing
 Differentially Expressed Proteins in Prostate Cell
 Lines using Proteomics Approach; Arum Park¹; Jiyeong
 Lee²; Sora Mun¹; Doo Jin Kim²; Byung Heun Cha²; YuRim
 Lee⁴; Tag Keun Yoo³; Hee-Gyoo Kang¹.²; ¹Department of
 Senior Healthcare, BK21 Plus Program, Graduate School,
 Eulji University, Seongnam, South Korea; ²Department of
 Biomedical Laboratory Science, College of Health Science,
 Eulji University, Seongnam, South Korea; ³Department of
 Urology, College of Medicine, Eulji University, Daejeon,
 South Korea; ⁴Eulji University, Seongnam-si, South Korea
- MP 029 Rheumatoid Factor-Correlated Proteins are Useful Screening Markers for Autoimmune and Infectious Diseases with Rheumatoid Factor; Sora Mun¹; Doojin Kim²; Jiyeong Lee²; Arum Park¹; AeEun Seok¹; Yeon-Tae Chun²; Hee-Gyoo Kang¹.²; ¹Department of Senior Healthcare, BK21 Plus Program, Graduate School, Eulji University, Seongnam-si, South Korea; ²Department of Biomedical Laboratory Science, College of Health Sciences, Eulji University, Seongnam-si, South Korea
- MP 030 Disease-specific IgG Fc N-glycosylationas Personalized Biomarkers to Differentiate Lung Cancer from Benign Lung Diseases; Dan Zhang¹; Tianjing Chen¹; Mo Zhang¹; Zhili Li¹; ¹Institute of Basic Medical Sciences, CAMS & PUMC, Beijing
- MP 031 Deep Proteome Profiling of Extracellular Vesicles Isolated from Human Plasma; Ole Østergaard^{1, 2}; Christian D. Kelstrup²; Julia T. Tanassi¹; Niels H. H. Heegaard^{1, 3}; Jesper V. Olsen²; ¹Statens Serum Institut, Copenhagen, Denmark; ²Novo Nordisk Foundation Center for Protein Research, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark; ³Department of Clinical Biochemistry and Pharmacology, Odense University Hospital, Odense, Denmark
- MP 032 Collagen Proteins in Colorectal Liver Metastasis; Nick A. van Huizen¹; Robert R.J. Coebergh van den Braak¹; Michael Doukas¹; Lennard J.M. Dekker¹; Theo M. Luider¹; Jan N.M. IJzermans¹; ¹Erasmus MC, Rotterdam, Zuid-Holland
- MP 033 Abundant Protein Depletion of Human Plasma Samples A Reproducibility and Scaling Study; Sergei Snovida¹; Katherine E. Herting²; Ramesh Ganapathy²; Ryan Bomgarden²; Barbara J. Kaboord²; Chris Etienne²; John C. Rogers²; ¹Thermo Fisher Scientific, Rockford, IL; ¹ThermoFisher Scientific, Rockford, IL
- MP 034 Assessment of Neopterin as a Potential Biomarker of Beta Cell Function in Human Urine Utilizing UPLC-MS/ MS; Kimberly A Navetta¹; Jennifer Colangelo²; ¹Pfizer Inc., Groton, CT; ²Pfizer Inc, Groton, CT
- **Proteomic Characterization of Laser Microdissected** MP 035 Myometrium and Trophoblast Compartments in Placenta Accreta; Brian L. Hood¹; Rebecca A. Keller²; Guisong Wang¹; Julie Oliver¹; Melinda M. Sanders³; Xiaohong Wang³; Alfred Khoury⁴; William A. Campbell²; Chad A. Hamilton^{1, 5}; George L. Maxwell^{1, 4, 6}; Thomas P. Conrads^{1, 6}; ¹Women's Health Integrated Research Center, Gynecologic Cancer Center of Excellence, Annandale, VA; ²Division of Maternal-Fetal Medicine, Department of Obstetrics & Gynecology, University of Connecticut School of Medicine, Farmington, CT; 3Department of Pathology and Histology, University of Connecticut School of Medicine, Farmington, CT; ⁴Department of Obstetrics & Gynecology, Inova Fairfax Hospital, Falls Church, VA; ⁵Gynecologic Oncology Service, Walter Reed National Military Medical Center, Bethesda, MD; 6Inova Schar Cancer Institute, Falls Church, VA



- MP 036 Dramatic Alterations in RNA Binding and Exosome-Associated Proteins Occur in Breast Cancer as Revealed by Proteomic Analysis of FFPE tissue; <u>Ten-</u> Yang Yen 1; Moe Thein 1; Roger Yen 1; Bruce A. Macher 1; Leslie C. Timpe 1; 1San Francisco State University, San Francisco . CA
- MP 037 Identification of Peptides from Dehalococcoides mccartyi Protein Biomarkers in Chloroethene Contaminated Groundwater Samples through a Standard-Free LC-MRM-MS Approach; Manuel Villalobos^{1, 2}; Cynthia M. Swift^{1, 2}; Karuna Chourey²; Frank Löffler¹; Robert L. Hettich^{1, 2}; *1University of Tennessee, Knoxville, TN; *2Oak Ridge National Lab, Oak Ridge, TN
- MP 038 Lipidomic Analysis of CSF from Patients with Neoplastic Meningitis (NM): A Pilot Study Identifying Biomarkers for Early Detection of NM; Shinji K. Strain¹; Morris D. Groves²; Mark R. Emmett¹, 3, 4, 5, 6; ¹Department of Neuroscience and Cell Biology, University of Texas Medical Branch, Galveston, TX; ²Austin Brain Tumor Center, Texas Oncology/US Oncology Research, Austin, TX; ³Department of Biochemistry and Molecular Biology, University of Texas Medical Branch, Galveston, TX; ⁴Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, TX; ⁵Department of Radiation Oncology, University of Texas Medical Branch, Galveston, TXuni; ⁵UTMB Cancer Center, Galveston, TX
- MP 039 Epidermal Lipids Detected by Multiple Reaction Monitoring (MRM)-profiling as Potential Biomarkers for Atopic Dermatitis; Jackeline Franco¹; Christina R. Ferreira²; Tiago José Paschoal Sobreira²; John P Sundberg³; Harm HogenEsch⁴; ¹Purdue University, West Lafayette, IN; ²Bindley Bioscience Center, Purdue University, West Lafayette, IN; ³The Jackson Laboratory, Bar Harbor, MN; ⁴Purdue University, West Iafayette, IN
- MP 040 Reproducible Single Shot Plasma Proteome Profiling with High Throughput Capabilities on a Robust Capillary Flow Setup; Roland Bruderer¹; Oliver M. Bernhardt¹; Tejas Gandhi¹; Sebastian Mueller¹; Polina Mironova²; Ondine Walter²; Jérôme Carayol²; Jörg Hager²; Armand Valsesia²; Loïc Dayon²; Jan Muntel¹; Arne Astrup³; Wim H.R. Saris⁴; Lukas Reiter¹; ¹Biognosys, Zurich, Switzerland; ²Nestlé Institute of Health Sciences, Lausanne, Switzerland; ³University of Copenhagen, Copenhagen, Denmark; ⁴Maastricht University Medical Centre, Maastricht, Netherlands
- MP 041 Identification of Predictive Biomarkers of Doxorubicininduced Clinical Cardiotoxicity; Li-Rong Yu¹; Jaclyn R Daniels¹; Zhijun Cao¹; Jinchun Sun¹; Richard D Beger¹; Issam Makhoul²; Suzanne Klimberg²; Jeanne Wei²; Valentina K Todorova²; ¹National Center for Toxicological Research, FDA, Jefferson, AR; ²University of Arkansas for Medical Sciences, Little Rock, AR
- MP 042 Assessment of the Effects of Pollutants in the Great Lakes on the Human Proteome; Emmalyn Dupree¹;
 Bernard Crimmins²; Thomas Holsen²; James Pagano³;
 Brooke Thompson⁴; Krista Christensen⁴; Michelle
 Raymond⁴; Costel C Darie⁵; ¹Biochemistry and Proteomics
 Group, Department of Chemistry and Biomolecular Science,
 Clarkson University, Potsdam, NY; ²Department of Civil and
 Environmental Engineering, Clarkson University, Potsdam,
 NY; ³Department of Chemistry, SUNY Oswego, Oswego,
 NY; ⁴Wisconsin Department of Health Services, Madison,
 WI; ⁵Biochemistry & Proteomics Group, Department of
 Chemistry & Biomolecular Science, Clarkson University,
- MP 043 Development of a Mass Spectrometry-Based Targeted Quantitative Assay for use in the Identification of a Colorectal Cancer Peptide Signature; Jia You¹; Athit Kao¹; Roslyn Dillon¹; Lisa J. Croner¹; John E. Blume¹; Ryan W. Benz¹; Bruce E. Wilcox¹; 'Applied Proteomics Inc., San Diego, CA

- MP 044 Nitroproteome Analysis of a Model of Acute Kidney Injury from Renal Ischemia/Reperfusion; Pamella Araujo Malagrino¹; Gabriela Venturini²; Rafael Dariolli²; Kallyandra Padilha²; Tamiris Gois²; Karina Morais Cardozo³; Valdemir Melechco Carvalho³; Jessica Silva Salgueiro³; Jose Eduardo Krieger²; Alexandre Costa Pereira²; ¹, São Paulo, São Paulo; ²Heart Institute, Sao Paulo, SP; ³Fleury Group, Sao Paulo, Brazil
- MP 045 In-quest of Biomarkers for Early Diagnosis of Alzheimer's Disease using LC-QTOF-MS/MS Based Lipidomics; Chandana Mannem¹; Jagan A. Pillai²; Christine Reece²; Yan Xu¹,³; ¹Department of Chemistry, Cleveland State University, Cleveland, OH; ²Luo Ruvo Center for Brain Health, Cleveland Clinic, Cleveland, OH; ³Case Comprehensive Cancer Center, Case Western Reserve University, Cleveland, OH
- MP 046 A Study of Label-Free and Isobaric Tag Approaches for the Detection of Biologically Relevant Changes in PAX8 Overexpressed MOSE Cells; Melissa R Pergande¹; Laura R Hardy¹; Carol Haney-Ball²; Vadiraja Bhat³; Joanna E Burdette¹; Stephanie M Cologna¹; ¹University of Illinois at Chicago, Chicago, IL; ²Agilent Technologies, Inc., Santa Clara, CA; ³Agilent Technologies, Inc., Wilmington, DE
- MP 047 Use of Phosphoproteomics in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Investigation of Cardiac Toxicity of HCV-NS5B Antivirus Drugs; Zhenlian Ke Tracy¹; John Imredy¹; Edward Lis¹; Bharathi Balasubramanian¹; Raymond Gonzalez¹; ¹Merck & Co., West Point, PA
- MP 048 Use of Tyr-kinase Inhibitors to Identify Cross-Talk between Signaling Pathways and Novel Protein Drug-Targets; Iulia M. Lazar¹; Nicole Smith¹; ¹Virginia Polytechnic Institute & State University, Blacksburg, VA
- MP 049 Temporal Effects of Novel Combinatorial Chemotherapeutics on Pancreatic Cancer Cells Investigated via Large-scale, Ion-Current Based Quantitative Proteomics; Xue Wang¹,²; Jin Niu¹; Jun Li¹; Xiaomeng Shen³; Shichen Shen¹; Robert M Straubinger¹,²; Jun Qu¹,²; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Cancer Institute, Buffalo, NY; ³Amgen, South San Francisco. CA
- MP 050 Dried Matrix Spots Sampling in LC-MS Based Non-Targeted Proteomics – What Can You Expect from Different Sampling Materials and Devices?; Cecilie Rosting¹; Astrid Gjelstad¹; Trine Grønhaug Halvorsen¹; ¹School of Pharmacy, University of Oslo, Oslo, Norway

BIOMOLECULAR STRUCTURE ANALYSIS: CHEMICAL CROSSLINKING AND COVALENT LABELING I 051 - 071

- MP 051 Proteome-wide Identification of Protein-Protein Interactions by *in-vivo* Chemical Crosslinking and Mass Spectrometry; Elena L. Rudashevskaya¹; Tomáš Ječmen¹; Karl A.T. Makepeace²-³; Jason J. Serpa²; Yassene Mohammed²-⁴; Evgeniy V. Petrotchenko²; Chris Meisinger⁵; Rene Zahedi¹; Albert Sickmann¹; Christoph H. Borchers¹-²-3; ¹Leibniz-Institut für Analytische Wissenschaften ISAS e.V., Dortmund, Germany; ²University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ³Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada; ⁴Center for Proteomics and Metabolomics, Leiden University, Netherlands; ⁵Institute for Biochemistry and Molecular Biology, Freiburg, Germany
- MP 052 Drug Induced Protein Conformational and Interaction Dynamics by Quantitative Cross-linking Mass Spectrometry; <u>Juan D Chavez</u>¹; Devin K Schweppe¹; Xuefei Zhong¹; Jimmy K Eng¹; James E Bruce¹; ¹University of Washington, Seattle, WA



- MP 053 Circularization of Calmodulin by Disulfide Bond: Structural Characterization by LC-MS/MS and Effects on Protein Dynamics by Isothermo Titration Calorimetry; You-Jun Fu¹; Priya Katyal¹; ¹University of Connecticut, Storrs, CT
- MP 054 Application of Fast Photochemical Oxidation of Proteins for *in vivo* Modification in Caenorhabditis elegans; Lisa Jones¹; Jessica A Espino¹; ¹University of Maryland, Baltimore, MD
- MP 055 Dynamics of the Pre-amyloid Structural Change of β-2-microglobulin Studied by Covalent Labeling and Mass Spectrometry; Blaise G Arden¹; Nicholas B Borotto¹; Brittney Burant¹; Richard W Vachet¹; ¹University of Massachusetts-Amherst, Amherst, MA
- MP 056 Protein Networks in Synaptic Vesicles Reveal Heterogeneous and Macromolecular Complexes that Mediate Signal Transduction in neuRons; Sabine Wittig¹; Carla Schmidt¹; ¹HALOmem, University of Halle, Halle / Saale
- MP 057 Topographical Characterization of COSMC Using Hydroxyl Radical Protein Footprinting by Fast Photochemical Oxidation of Proteins; Niloofar Abolhasani Khaje¹; Pradeep Kumar Prabhakar²; Kelley W Moremen²; Joshua S. Sharp¹; ¹Department of Biomolecular Sciences, University of Mississippi, University, MS; ²Complex Carbohydrate Research Center, University of Georgia, Athens, GA
- MP 058 Starfish Relaxin-Type Dimeric Peptide Cross-Linked by Disulphide Bridgesanalysed by High Collision Energy (HCD) Fragmentation and Stavrox Software; Cleidiane Zampronio¹; Ming Lin²; Masatoshi Mita³; Michaela Egertová²; Alexandra M Jones¹; Maurice R Elphick²; ¹University of Warwick, Coventry, UK; ²Queen Mary University of London, London, UK; ³Tokyo Gakugei University, Tokyo, Japan
- MP 059 Revealing Tertiary Structural Interactions of the Cellular Prion Protein through Chemical Cross-linking and Mass Spectrometry; Deborah R. Leon¹; Alex J. McDonald¹; Christian F. Heckendorf¹; Mark E. McComb¹; Philip C. Andrews²; David A. Harris¹; Catherine E. Costello¹; ¹Boston University School of Medicine, Boston, MA; ²University of Michigan, Ann Arbor, MI
- MP 060 Transcription factor-DNA Interaction Studied by Structural Mass Spectrometry; <u>Lukas Slavata</u>^{1, 2}; Michal Rosulek^{1, 2}; Daniel Kavan^{1, 2}; Alan Kadek^{1, 2}; Petr Man^{1, 2}; Petr Novak^{1, 2}; *

 **IBIOCEV Institute of Microbiology of the CAS, v.v.i., Vestec, Czech Republic; **Faculty of Science, Charles University, Prague, Czech Republic
- MP 061 Application of MS2-PD-MS3 Workflow for Large-Scale Identification of Cross-Linked Peptides; Levgen_Motorykin; Kumar Yugandhar²; Jin Liang²; Elizabeth T. Anderson¹; Robert W. Sherwood¹; Haiyuan Yu²; Sheng Zhang¹; ¹Mass Spectrometry and Proteomics Facility, Institute of Biotechnology, Cornell University, Ithaca, NY; ²Weill Institute for Cell and Molecular Biology, Department of Biological Statistics and Computational Biology, Cornell University, Ithaca, NY
- MP 062 Development of a Statistic-Based Potential for Chemical Cross-Linking/Mass Spectrometry Derived Constraints for Protein Tertiary Structure Determination; Allan Jhonathan Ramos Ferrari¹; Leandro Martínez¹; Fabio Cesar Gozzo¹; ¹University of Campinas, Campinas, SP
- MP 063 X-Ray Hydroxyl Radical Protein Footprinting of Intact, Functional Mitochondria; Awuri Asuru¹; Jen Bohon².
 ³; Janna Kieslar¹.³; Mark R. Chance¹.².³; ¹Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH; ²Center for Synchrotron Biosciences, Case Western Reserve University, Cleveland, OH; ³Department of Nutrition, Case Western Reserve University, Cleveland, OH

- MP 064 Characterizing a Plant Receptor Kinase's Three Dimensional Structure using Bottom Up Mass Spectrometry-Based Protein Footprinting; Pei Liu¹; Benjamin B. Minkoff¹; Miyoshi Haruta¹; Michael R. Sussman¹; ¹Department of Biochemistry and Biotechnology Center, University of Wisconsin, Madison, WI
- MP 065 Dimethyl Labeling Coupled with Mass Spectrometry for Topographical Characterization of Primary Amines on Monoclonal Antibodies; Sin-Yi Jhan¹; Li-Juan Huang¹; Shu-Hui Chen¹; ¹National Cheng Kung University, Tainan, Taiwan
- MP 066 Application of MS3 Experiments to Confidently Identify Cross-linked Peptides; Bingqing Zhao¹; James P. Reilly²; ¹/U, Bloomington, Indiana; ²Indiana University, Bloomington, IN
- MP 067 Interpretation of Anomalously Long Crosslinks in Ribosome Crosslinking; Santosh A Misal¹; James P. Reilly²; ¹Indiana University Bloomington, Bloomington, IN; ²Indiana University Bloomington, Bloomington, IN
- MP 068 Defining the Structural Dynamics of Cullin-RING Ligase Complexes Using a Novel Multiplexed Quantitative Cross-linking Mass Spectrometry Strategy; Clinton
 Yu¹; Haibin Mao²; Alexander Huszaugh¹; Rosa Viner³; Eric Novitsky¹; Scott Rychnovsky⁴; Lan Huang⁴; ¹University of California, Irvine, Irvine, CA; ²University of Washington, Seattle, WA; ³ThermoFisher, San Jose, CA; ⁴University of California, Irvine, Irvine, CA
- MP 069 Crosslinking Mass Spectrometry (XL-MS) Probes Changes in Protein Domain Structures and Distinguishes Rigid from Flexible Domains; Lolita Piersimoni¹; Manolo D Plasencia¹; Hollis D Showalter²; Philip C Andrews¹.³,⁴; ¹Department of Biological Chemistry, University of Michigan, Ann Arbor, MI; ²Department of Medicinal Chemistry, University of Michigan, Ann Arbor, MI; ³Department of Chemistry, University of Michigan, Ann Arbor, MI; ⁴Department of Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI
- MP 070 Sequencing the RNA Moiety of Peptide-Oligonucleotide Cross-Links by nanoLC-ESI-MS/MS; Aleksandar
 Chernev^{1, 2}; Kuan-Ting Pan¹; Uwe Pleßmann¹; Henning
 Urlaub^{1, 2}; ¹Max Planck Institute for Biophysical Chemistry,
 Goettingen; ²University Medical Center, Goettingen,
 Germany
- MP 071 A Software Pipeline for Identifying and Validating
 Chemical Crosslink Sites in Nonspecifically-Digested
 LC-MS/MS Samples; Mark E. Adamo¹; Scott A. Gerber¹;
 Andrew V. Grassetti¹; ¹Dartmouth College, Lebanon, NH

CARBOHYDRATES I 072 - 098

- MP 072 Uromodulin Isolation and Its Glycosylation Analysis by nanoLC-MS/MS; Haiying Li¹; Stephen Kostel¹; John Froehlich¹; Richard S. Lee¹; ¹Boston Children's Hospital, Boston MA
- MP 073 Automated Characterization of Isomeric N-glycans using Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS); Rui Zhang¹; Xue Dong²; Yehia Mechref²; Haixu Tang¹; ¹Indiana University Bloomington, Bloomington, IN; ²Texas Tech University, Lubbock, TX
- MP 074 Development of a Multi-Dimensional HPLC-MS Method For Heparin/Heparan Sulfate Oligosaccharide Analysis; Hao Liu¹; Morgan Stickney²; Jonathan I Amster²; Joshua S. Sharp¹; ¹Department of BioMolecular Sciences, The University of Mississippi, Oxford, MS; ²Department of Chemistry, University of Georgia, Athens, GA
- MP 075 N-glycosylation Analysis of mAbs by CESI-MS at the Glycopeptide and Released Glycan Levels; Jenny Albanese¹; Marton Szigeti²; Bryan Fonslow³; Andras Guttman³; Edna Betgovargez³; ¹SCIEX, Redwood City, CA; ²University of Debrecen, Debrecen, Hungary; ³Sciex, Brea, CA



- MP 076 Skyline™-based Quantitative N-glycomics Reveals Altered Expression of Paucimannosidic N-glycans of Mouse Brain Tissues upon Neuropathic Pain Induction; Christopher Ashwood¹¹.²; Vicky Staikopoulos³.⁴; Arun V Everest-Dass¹.²; Morten Thaysen-Andersen²; Mark R Hutchinson³.⁴; Nicolle H Packer¹.²; ¹ARC Centre of Excellence in Nanoscale Biophotonics, Macquarie University, Sydney, Australia; ²Department of Chemistry and Biomolecular Sciences, Macquarie University, Sydney, Australia; ³ARC Centre of Excellence in Nanoscale Biophotonics, The University of Adelaide, Australia; ⁴School of Medicine, The University of Adelaide, Australia
- MP 077 Mild Acid Dissociation toward Defined Oligosaccharide Groups (MADDOG): A Universal Method for Structural Characterization of Polysaccharides by Nano-HPLC-Chip/Q-TOF Mass Spectrometry; Matthew J. Amicucci^{1, 2}; Ace G. Galermo²; Guy Treves²; Carlito B. Lebrilla²; ¹UC Davis Agricultural and Environmental Chemistry Graduate Group, Davis, CA; ²UC Davis Department of Chemistry, Davis. CA
- MP 078 Sequence Analysis of Proteoglycan Decorin and Other Large Chain Glycosaminoglycan MS2 Using Automated Analysis Software; <u>Jiana Duan</u>¹; Agyekum Isaac¹; I. Jonathan Amster¹; 'University of Georgia, Athens, GA
- MP 079 A Method for Distinguishing Arm-Specific Sialylation of Unsaturated Multiple-Antennae N-linked Glycan Isomers using Exoglycosidase Digestion by HT-PGC LC-MS/MS; Chein-Hung Chen¹; Ya-Ping Lin¹; Fang-Chi liu¹; Chi-Lin Wu¹; Jung-Lee Lin¹; Chung-Hsuan Chen¹; ¹Academia Sinica, Taipei, Taiwan
- MP 080 Comparison of InstantPC and Traditional N-Glycan Labeling Dyes; John Yan¹; Andres Guerrero¹; Steven Mast¹; Emily Dale¹; Ted Haxo¹; Aled Jones¹; ¹ProZyme, Hayward, CA
- MP 081 Automated and Rapid Characterization of Low-Molecular-Weight Heparin Oligosaccharides Using TripleTOF 5600 Mass Spectrometer with SimGlycan Software; Ningombam Sanjib Meitei^{1, 2}; Rajesh Pujari¹; Arun Apte²; Annu Uppal³; ¹PREMIER Biosoft, Indore, India; ²PREMIER Biosoft, Palo Alto, CA; ³SCIEX, Gurgaon, India
- MP 082 High Throughput Analysis of N-Glycans Released from Biosimilar Glycoproteins; Zoltan Szabo¹; Shanhua Lin¹; Dietmar Reusch²; Aled Jones³; John Yan³; ¹Thermo Fisher Scientific, Sunnyvale, CA; ²Roche Diagnostics GmbH, Penzberg, Germany; ³ProZyme, Hayward, CA
- MP 083

 LC-MS/MS Isomeric Profiling of Permethylated
 N-Glycans Derived from Serum Haptoglobin of
 Hepatocellular Carcinoma (HCC) and Cirrhotic Patients;
 Yifan Huang¹; Shiyue Zhou¹; Jianhui Zhu²; David M.
 Lubman²; Yehia Mechref¹; ¹Texas Tech University, Lubbock,
 TX; ²University of Michigan, Ann Arbor, MI
- MP 084 Isomeric Complexity of Glycosylation in MCF-7 and MDA-MB-231 Cell Lines Revealed by Detailed Analysis with Ion Trap Mass Spectrometry; David Ashline^{1, 2}; Hailong Zhang²; Vernon N. Reinhold²; ¹Glycan Connections, Dover, NH: ²University of New Hampshire, Durham, NH
- MP 085 16-plex/32-plex LC-MS Analysis of Isotopically Permethylated N-glycans Derived from Biological Samples; Xue Dong¹; Wenjing Peng¹; Yifan Huang¹; Seth D Williamson¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- MP 086 Microscale Chemical Release of O-linked Oligosaccharides by RAIDR; <u>Lucas Veillon</u>¹; Ahmed Hussein^{1, 2}; Byeong G Cho¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX; ²Alexandria University, Alexandria, Egypt
- MP 087 Structure Analysis of Glycosaminoglycan Intermediate Oligosaccharides Elongated on β-xylosides; Yuya Otsuka¹,²; Toshinori Sato²; ¹Seikagaku Corporation,

- Higashiyamato-shi, Japan; ²Department of Biosciences and Informatics, Keio University, Yokohama, Japan

 1088 Effectiveness of N-linked Glycan Release: A
- MP 088 Effectiveness of N-linked Glycan Release: A
 Quantitative Comparison of Chemical Release versus
 PNGase F Release Protocols; <u>David Fischler</u>¹; Ron
 Orlando¹; ¹Complex Carbohydrate Research Center,
 University of Georgia, Athens, GA
- MP 089 Mass Spectrometry-Based Quantitative Analysis for Decoding Site-Specific Alteration of Sialo-glycoproteome in EGFR-subtypes of Non-Small Cell Lung Cancers; Yi-Ju Chen¹; Yu-Hsien Lin²; Ta-Chi Yen¹; Kay-Hooi Khoo³; Yu-Ju Chen¹; ¹Institute of Chemistry, Academia Sinica, Taipei City, Taiwan; ²Institute of Chemistry, Academia Sinica, Taipei City, Taiwan; ³Institute of Biological Chemistry, Taipei City, Taiwan
- MP 090 Purification of Permethylated N-glycans by using Carbon Nanoparticles: Enhancing Sensitivity and Mass Accuracy; <u>Jieqiang Zhong</u>¹; Alireza Banazadeh¹; Yehia Mechref¹; 'Texas Tech University, Lubbock, TX
- MP 091 A Universal Approach to linkage-Specific Derivatization for Sialic Acids on Glycopeptides; Takashi Nishikaze¹; Sadanori Sekiya¹; Shinichi Iwamoto¹; Koichi Tanaka¹; ¹Shimadzu Corporation, Kyoto, Japan
- MP 092 Exploring the Species-specific Glyco-biosynthesis via Nano-LC/MS and LC/MS/MS for the Development of Humanized Mouse Model; Dan Bi Park^{1,2}; Sumin Kim^{2,3}; Jeong Gu Kang⁴; Yong-Sam Kim⁴; Jong Shin Yoo⁵; Jeong-Heon Ko⁴; Hyun Joo An^{1,2}; ¹Asia Glycomics Reference Site, Chungnam National University, South Korea; ²Graduate School of Analytical Science and Technology, Daejeon, South Korea; ³Asia Glycomics Reference Site, Daejeon, South Korea; ⁴Korea Institute of Bioscience and Biotechnology, Daejeon, South Korea; ⁵Korea Basic Science Institute, Cheongju, Chungbuk
- MP 093 Isomeric Separation and identification of Standard Glycans and Glycans in Model Glycoproteins by PGC-LC-MS/MS at High Temperature; Aiying Yu¹; Yifan Huang²; Shiyue Zhou²; Xue Dong²; Yehia Mechref²; †Texas Tech University, Lubbock, TX; †Texas Tech University, Lubbock, TX
- MP 094 Carbon Nanoparticles and Graphene Nanosheets as MALDI Matrices in Glycemics: A New Approach to Improve Glycan Profiling in Biological Samples;

 Alireza Banazadeh¹; Wenjing Peng¹; Lucas Veillon¹; Yehia Mechref¹; 'Texas Tech University, Lubbock, Texas
- MP 095 Fixed Ligand Kinetic Method to Determine the Preservation of Stoichiometry in the Solvolysis of Carbohydrates; Zachary Wooke¹; Nicola L. B. Pohl¹;

 1 Indiana University, Bloomington, IN
- MP 096 Detailed Structural Analyses of O-glycan Alditols by High Performance Anion Exchange Chromatography (HPAE) Coupled to Mass Spectrometry; Zoltan Szabo¹; Niclas G Karlsson²; Dietmar Reusch³; Jim Thayer⁴; Yury Agroskin⁴; Rosa Viner⁵; Gina Tan⁵; Andreas F. Huhmer⁵; Christopher Pohl⁴; ¹Thermo Fisher Scientific, Sunnyvale, CA; ²University of Gothenburg, Gothenburg, Sweden; ³Roche Diagnostics GmbH, Penzberg; ⁴Thermo Fisher Scientific, Sunnyvale, CA; ⁵Thermo Fisher Scientific, San Jose CA
- MP 097 The Outermost Surface N-glycomic Analysis of Breast Cancer Cell Lines using PNGase F Digestion on living Cells; Wenjing Peng¹; Akhila Reddy¹; Jingfu Zhao¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX
- MP 098 Isomeric N-glycan Analysis of Breast Cancer Cell
 Lines using Porous Graphitic Carbon (PGC) Liquid
 Chromatography-Tandem Mass Spectrometry (LC-MS/
 MS); Mona Golii; Wenjing Peng¹; Xue Dong¹; Shiyue Zhou¹;
 Yehia Mechref¹: ¹Texas Tech University, Lubbock, TX



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- MP 099 Quantitation of Putative Colorectal Cancer Biomarker Candidates in Serum Extracellular Vesicles by Targeted Proteomics; Takeshi Tomonaga¹; Takashi Shiromizu¹; Jun Adachi¹; ¹Laboratory of Proteome Research, National Institutes of Biomedical Innovation, Health and Nutrition, Ibaraki, Japan
- MP 100 Modern Orbitrap Based Mass Spectrometers Detect an Unexpected Multitude of Proteoforms in (Human) Secretory Fluids: PROTEOFORMICS of the Human Tear; Peter D. Verhaert¹; Peter P. Raus²; Martijn W. Pinkse¹; PAUL THOMAS³; Neil L Kelleher³; ¹Delft University of Technology, DELFT, Europe; ²Miró Center, Geel, Belgium; ³Northwestern University, Evanston, IL
- MP 101 iKnife Rapid Evaporative Ionisation Mass Spectrometry (REIMS) Technology In Head and Neck Surgery. A ex vivo Feasibility Study; Jagtar Dhanda¹; Andrew Schache²; Max Robinson³; Zsolt Bodai⁴; Emma L. White⁴; Burak Temelkuran⁴; Yang Guang-Zhong⁴; Zoltan Takats⁴; ¹Queen Victoria Hospital, East Grinstead, UK; ²University of Liverpool, Liverpool, Merseyside; ³Universit of Newcastle, Newcastle upon Tyne, UK; ⁴Imperial College London, London, UK
- MP 102 Investigating Paper Properties for Ion Suppression and Recovery in Paper Spray Mass Spectrometry;

 Brandon Bills¹; Jeffrey Kinkade¹; Nicholas Manicke¹; ¹IUPUI
 Department of Chemistry & Chemical Biology, Indianapolis, IN
- MP 103 Quantitative Proteomic Analysis of MGMT May Predict Response of Colorectal Cancer Patients to Treatment with Temozolomide; Yuan Tian¹; Sarit Schwartz¹; Weili Liao¹; Fabiola Cecchi¹; Filippo Pietrantonio²; Todd Hembrough¹; ¹Nantomics, Rockville, MD; ²Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy
- MP 104 Breath Analysis with Thermal Desorption-Field Asymmetric Ion Mobility Spectrometry-Mass Spectrometry: A Rapid and Non-Invasive Means of Screening for Pulmonary-Related Diseases; Alasdair Edge¹; Lauren Brown¹; Kayleigh Arthur¹; Robert Smith¹; ¹Owlstone Medical Ltd., Cambridge, UK
- MP 105 Background Proteins in hCG Formulations of Different Manufacturers; Goran Mitulovic¹; <u>Tanja Panić-Janković</u>¹; <u>Medical University of Vienna, KIMCL, Vienna, Austria</u>
- MP 106 Requirements for Successful Development of MS-based Protein Assays that Target Unmet Clinical Needs;
 Yuri E. M. van der Burgt¹; L. Renee Ruhaak¹; Nico P. M.
 Smit¹; Fred P. H. T. M. Romijn¹; Arnoud van der Laarse¹;
 Wilma E. Mesker¹; Rob A. E. M. Tollenaar¹; Magnus
 Palmblad¹; Manfred Wuhrer¹; Christa M. Cobbaert¹; ¹Leiden
 University Medical Center, Leiden, Netherlands
- MP 107 **Role of RNase L in Kideny**; Norah Alghamdi¹; Danting Liu¹; Ruhan Wei¹; Aimin Zhou¹; ¹Cleveland State University, Department of Chemistry, Cleveland, OH
- MP 108 LC-MS-MS Quantitative Analysis of Retinoids and Metabolites in Serum for Research Use; Rory M Doyle¹; <u>Joshua Kilne</u>¹; 'Thermo Fisher Scientific, Somerset, NJ
- MP 109 A New Tool for the Automated Sample Preparation of Whole Blood Samples by LC-MS using a Commercial Autosampler; Guenter Boehm¹; Christian Berchtold²; Reto Bolliger¹; Renzo Picenoni¹; Thomas Preiswerk¹; Goetz Schlotterbeck²; ¹CTC Analytics AG, Zwingen, BL; ²Fachhochschule Nordwestschweiz, Muttenz, Switzerland
- MP 110 Routine 50uL Serum/Plasma Analysis of Hepcidin-25, Hepcidin-20, Hepcidin-22 and Hepcidin-24 using LC/MS/ MS: Diurnal Study; Benjamin Hunter¹; Robert Trengove¹; Joel Gummer¹; ¹Murdoch University, Murdoch, WA
- MP 111 Clinical Applications by Direct Coupling of Bio-Compatible SPME Devices to MS via Open-Port Probe Sampling Interface; Marcos Tascon¹; German Gomez-

- Rios¹; Chang Liu²; Anna Roszkowska¹; Nikita Looby¹; Nathaly Reyes Garces¹; Don W Arnold²; Tom Covey³; Barbara Bojko¹.⁴; Janusz Pawliszyn¹; ¹Department of Chemistry, University of Waterloo, Waterloo, Ontario; ²SCIEX, Concord, ON, Canada, Canada; ³SCIEX, Redwood City, CA; ⁴Department of Pharmacodynamics and Molecular Pharmacology, Faculty of Pharmacy, Nicolaus Copernicus University in Torun, Bydgoszcz, Poland
- MP 112 Non-invasive HRMS Based Approach for Monitoring of Neonates under Intensive Care; Alexey S Kononikhin^{1, 2}; Natalia Starodubtseva²; Anna Bugrova^{2,} 3; Maria I. Indeykina3; Vitaliy V Chagovets2; Igor Popov1, 2; Vladimir Frankevich2; Gennady Sukhikh2; Eugene (Evgeny) Nikolaev^{1, 4, 5}; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia; 2V. I. Kulakov Research Center for Obstetrics, Gynecology and Perinatology, Ministry of Healthcare of the Russian Federation, Moscow, Russia; 3Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow, Russia; 4Skolkovo institute of science and technology, Moscow Region, Russia; ⁵Institute of energy problems of chemical physics Russian Academy of Sciences, Moscow, Russia
- MP 113 Biocompatible Handheld Mass Spectrometry Probe for Nondestructive Tissue Analysis and in vivo Cancer Diagnosis; Jialing Zhang¹; John Rector¹; John Lin¹; Jonathan H Young¹; Nitesh Katta²; Noah Giese¹; Marta Sans¹; Clara Feider¹; Benjamin C. Ludolph¹; Alena Bensussan¹; Rachel J. DeHoog¹; Kyana Y. Garza¹; Thomas Milner²; Livia S. Eberlin¹; ¹Department of Chemistry, The University of Texas at Austin, Austin, TX; ²Department of Biomedical Engineering, The University of Texas at Austin, Austin TX
- MP 114 Comparative Analysis of mRNA Degradation and Protein Degradation in 68 Pairs of Adjacent Prostate Tumor Tissue Samples; Wenguang Shao¹; Tiannan Guo¹; Nora C Toussaint¹; Ulrich Wagner²; Li Li³; Konstantina Charmpi³; Yi Zhu¹; Andreas Beyer³; Gunnar Ratsch¹; Peter Wild²; Ruedi Aebersold¹; ¹ETH Zurich, Zurich; ²University Hospital Zurich, Zurich, Switzerland; ³University of Cologne, Cologne, Germany
- MP 115 Does Supercritical Fluid Chromatography Based Mass Spectrometry Help to Find Biomarker/s for Migraine?; Kumari Ubhayasekera¹; Rik Bongaards¹; Neil De Kock¹; Jonas Bergquist¹; ¹Uppsala University, Uppsala, Sweden
- MP 116 Use of Automation to Achieve High Performance SPE;

 Mark J. Hayward¹; Jonathan Ho²; Matthew T Hardison³;

 Martin Johnson³; Thomas Moran²; Kim Gamble⁴; ¹ITSP

 Solutions and Active Ingredient Technologies, Stockton,

 NJ; ²Shimadzu Scientific Instruments, Somerset, NJ;

 ³Assurance Scientific Laboratories, Vestavia, AL; ⁴ITSP

 Solutions, Hartwell, GA
- MP 117 A High Throughput-Large Panel Approach to Amino Acid Quantitation in Urine, utilizing Ultra-Fast LC-MS/MS and Traditional Chromatography for Isobaric Separations; Michael Roberts¹; Asra Gilani¹; Monica Fuego-Mendez²; Frederic Ciner¹; ¹Shimadzu, Durham, NC; ²CBS Labs, Hialeah, FL
- MP 118 The 3D-REIMS Tissue Atlas in vivo / ex vivo
 Validation of Classification Model for Intraoperative
 Tumor Diagnostics; Keely Pierzchalski¹; Ludwig Dubois²;
 Natasja G. Lieuwes²; Marius Hennecken³; Pierre-Maxence
 Vaysse¹; Ulf P. Neumann³; Steven W.M. Olde Damink⁴;
 Thorsten Cramer³; Ron M.A. Heeren¹; Tiffany Porta¹; ¹M4i
 Institute, Division of Imaging Mass Spectrometry, Maastricht
 University, Maastricht, Netherlands; ²Dept. of Radiation
 Oncology (Maastro Lab), GROW School for Oncology
 and Developmental Biology, Maastricht University Medical
 Centre, Maastricht, Netherlands; ³RWTH Aachen, Achen,

- Germany; ⁴Dept. of Surgery, Maastricht University Medical Centre, Maastricht, Netherlands
- MP 119 Online SFE-SFC-MS for Direct Extraction and Analysis of Designer Drugs in Urine Samples; Alison Paige

 Wicker¹; Volodymyr Pauk²; Changling Qiu¹; Karel Lemr²; Vladimir Havlicek²; Kevin A. Schug¹; ¹University of Texas at Arlington, Arlington, TX; ²Palacky University in Olomouc, Olomouc, Czech Republic

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- MP 120 High Throughput Platform for Screening Active
 Constitutes in Rhodiola crenulate Extract by UHPLC
 Tandem High-Resolution Mass Spectrometry; Tao Bo¹;
 Wei Du²; ¹Agilent Technologies, Beijing, Beijing; ²Agilent
 Technologies(China), Beijing, Beijing
- MP 121 Development and Application of Magnetic Microbead Affinity Selection Screening (MagMASS) for Novel Retinoid X Receptor-α (RXRα) Anti-Inflammatory Agents; Ruth Muchiri¹; Rush Michael¹; Elisabeth Walker¹; Richard van Breemen¹; ¹University of Illinois at Chicago, Chicago, IL
- MP 122 Protein Array-ALIS:A Combined Affinity Selection –
 Mass Spectrometry / Phenotypic Screening Approach
 for Identification of Protein Drug Targets; Elliott
 Nickbarg¹; Peter J. Dandliker¹; Shuli Yang¹; Nicholas
 Murgolo²; Scott Walker²; PAUL Mann²; Donna Carr²; Terry
 Roemer²; Todd Black²; Bruce Beutel¹; 'Merck & Co., Inc.,
 Boston. MA: 2Merck & Co., Inc. Kenilworth. NJ
- MP 123 Investigation of the Metabolites of CCK-4 in Human/ Rat Plasma by Ultra-High Performance Liquid Chromatography-Orbitrap Fusion Tribrid Mass Spectrometer; Li Kong¹; Frederic J Berg¹; ¹ECBC, US Army, Gunpowder, MD
- MP 124 Physicochemical Properties of Carfentanil, an Ultra-Potent Opioid of Abuse; Richard J Lawrence¹; Michael G Feasel¹; ¹Edgewood Chemical Biological Center (ECBC), Aberdeen Proving Ground, MD
- MP 125 Reverse Affinity Screening Technology Enabled by High-Throughput Mass Spectrometry in Drug Discovery; Ting Song¹; Mark Southern²; John D. McCarter²; ¹Amgen, Thousand Oaks, CA; ²Amgen, Thousand Oaks, CA
- MP 126 Improvements of the DMPK Workflow Utilizing a Supercritical Extraction SFC MS/MS Combination. Systematic Evaluation of the Make-Up Composition;

 Andreas Fredenhagen¹; Arnold Demailly¹; Markus Walles¹; Laura Akbal¹.²; Caroline Radoch¹; ¹Novartis, Basel; ²Universite de Geneve, Geneva, Switzerland
- MP 127 WebMetabase: High Resolution Mass Spectrometry
 Tool to Investigate Peptide Metabolism and Investigate
 Peptides Cleavage Site Based on Frequency; Tatiana
 Radchenko^{1, 2}; Christopher Kochansky³; Alison Bateman³;
 Fabien Fontaine²; Luca Morettoni⁴; Ismael Zamora^{1, 2};

 1 Universitat Pompeu Fabra, Barcelona, Spain; 2 Lead
 Molecular Design, S.L., Sant Cugat del Valles, Spain;

 3 Merck & Co., West Point, PA; 4 Molecular Discovery,
 London, UK
- MP 128 Simultaneous Determination of Doxorubicin and Modified Hyaluronan in Mouse Plasma and Its Tissues; Matej Simek¹; Martina Hermannova¹; Daniela Smejkalova¹; Karel Soucek²; Vladimir Velebny¹; ¹Contipro a.s., Dolni Dobrouc, Czech Republic; ²Academy of Science of the Czech Republic, Brno, Czech Republic
- MP 129 Metabolite Profiling in Tissues from Whole Body Slices via Improved Liquid Microjunction Surface Sampling followed by LC-HRMS; Weiqi Chen¹; Lifei Wang¹; Anthony Barros¹; Jinping Gan¹; ¹BMS, Princeton, NJ
- MP 130 AIMS (Automated *in vivo* MS System) A Novel Drug Discovery Software to Boost In Vivo LC-MS/
 MS Analytics; Andreas H. Luippold¹; Wolfgang Rist¹;

- Tom Bretschneider¹; Wolfgang Joerg¹; Christian Spaeth¹; Juergen Weber¹; Siegfried Wild¹; Daniel Bischoff¹; ¹Boehringer Ingelheim Pharma GmbH & Co KG, Biberach, Baden Württemberg
- MP 131 Speedy Characterization of Cyclic Peptide Metabolites in Complex Biological Matrix with integratedLC/MS/ MS andMassMetaSite/WebMetaB; Silvi Chacko¹; Nirmala Ragahavan²; Yue-Zhong Shu²; William Humphreys²; ¹Bristol-Myers Squibb, Pennington, NJ; ²Bristol-Myers Squibb, Princeton, NJ
- MP 132 Biotherapeutic Analysis using Automated Affinity
 Purification and Sensitive Intact Protein Based LC/QTOF Analysis; Jing Chen¹; Alex Zhu²; Steve Murphy³;

 ¹Agilent, Madison, WI; ²Agilent Technologies, Inc.,
 Wilmington, DE; ³Agilent Technologies, Inc., Madison, WI
- MP 133 Efficient Theranostic System for Hypoxia Mediated Drug Delivery: Rhodamine-Derived Azobenzene Mustards;

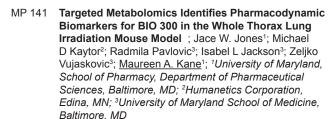
 Jiyeong Lee¹; Peter Verwilst²; Jiyou Han³; Sora Mun⁴; AeEun Seok⁴; Arum Park⁴; Jong Seung Kim²; Hee-Gyoo Kang¹.⁴;

 ¹Department of Biomedical Laboratory Science, College of Health Science, Eulji University, Seongnam, South Korea;

 ²Department of Chemistry, Korea University, Seoul, South Korea; ³Department of Biotechnology, Laboratory of Stem Cells and Tissue Regeneration, College of Life Sciences & Bio Technology, Korea University, Seoul, South Korea;

 ¹Department of Senior Healthcare, BK21 Plus Program, Graduate School, Eulji University, Seongnam, South Korea
- MP 134 Beyond HPLC-MS: Profiling of High Molecular Weight Impurities during Drug Synthesis; Holger Bauer¹; Hans Griesinger¹; Katerina Matheis¹; Annette Michalski¹; ¹Merck KGaA, Darmstadt, Germany
- MP 135 Evaluation of a Cyclic Mobility-Enabled Research Platform with Multiple-Pass Ion Geometry for Metabolite Characterisation Studies; Richard Clayton¹; Catherine Holdsworth¹; Nick Tomczyk²; Kevin Giles²; Jakub Ujma²; Daniel Weston²; ¹Covance, Harrogate, UK; ²Waters Corporation, Wilmslow, UK
- MP 136 Comprehensive Identification of Drug Targets and Target Engagement Biomarkers by Proteome-Wide CETSA and Chemical Proteomics; Gabriele Stoehr¹; Melanie Maschberger¹; Johannes Krumm²; Sandra Silingas¹; Thomas Wieland¹; Bernhard Kuster²; Hannes Hahne³; ¹OmicScouts GmbH, Freising; ²Technical University of Munich, Freising, Germany; ³OmicScouts GmbH, Freisina. Germany
- MP 137 Incubation and Analytical Conditions to Determine Xanthine Oxidase Activity and its Role as a Clearance Pathway for Drug Discovery Candidates; Richard Schneider¹; Matthew Cerney¹; ¹Pfizer Global R&D, Groton. CT
- MP 138 Pharmacokinetic and Metabolomic Profiling of Inhaled Simvastatin in Rhesus Macaque; Mona Elbadawi-Sidhu¹; Sean Ott²; Jules Larke³; Osamede Enobakhare¹; Jessica Kwok³; Louise Olsen⁴; Amir Zekl²; Oliver Fiehn³; ¹NIH West Coast Metabolomics Center, University of California Davis, Davis, CA; ²Dept. of Internal Medicine, Division of Pulmonary, Critical Care and Sleep Medicine, University of California Davis, Davis, CA; ³NIH West Coast Metabolomics Center, University of California Davis, Davis, CA; ⁴California National Primate Research Center, University of California Davis, Davis, CA
- MP 139 Metabolite Identification of Fentanyl and Fentanyl Analogs Incubated in Human Hepatocytes; Ron G

 Aoyama¹; Tim J. Stratton²; ¹Gilead Sciences, Foster City, CA: ²ThermoFisher. San Jose. CA
- MP 140 Systematic Characterizations of Target Kinases and Kinome Reprogramming of Clinically Used Kinase Inhibitors; Weili Miao¹; Lei Guo¹; Yongsheng Xiao¹; Yinsheng Wang¹; ¹University of California, Riverside, CA



- MP 142 Novel Chemoproteomic Approaches for Proteomewide Characterization of Covalent Drug Binding; <u>Jarrod Marto</u>; Dana Farber Cancer Instit, Boston, MA
- MP 143 Broad-Spectrum Kinase Profiling in Live Cells with Lysine-Targeted Sulfonyl Fluoride Probes; Qian Zhao; Hong Kong Baptist University, Kowloon Tong, Kowloon, China
- MP 144 Development of a Magnetic Microbead Affinity
 Selection Screening (MagMASS) UHPLC-MS Assay
 for the Progesterone Receptor; Daniel Nosal¹; Michael
 D Rush¹; Tristesse Burton¹; Richard van Breemen¹;

 ¹University of Illinois at Chicago College of Pharmacy,
 Chicago, IL
- MP 145 Optimization of High-Resolution MS Parameters for an Automated High-throughput Metabolic Stability Assay with Simultaneous Accumulation of Quantitative/ Qualitative Data; David Heim¹; Richard Burton¹; Shelby Anderson¹; Dongting Liu¹; Xiaochun Zhu¹; Heasook Kim-Kang¹; ¹Q2 Solutions, Indianapolis, IN
- MP 146 LeadScape: An Automated Platform for LC/MS/MS
 Methods Development, Storage and Distribution;
 Hui Zhang¹; Jianhua Liu¹; Brendon Kapinos²; John
 Janiszewski³; Wayne Lootsma⁴; Steve Ainley⁴; Joseph
 Janiszewski⁴; ¹Pfizer Inc., Groton, CT; ²Pfizer Inc, Groton,
 CT; ³Pfizer Inc., Groton, CT; ⁴Sound Analytics, Niantic, CT
- MP 147 An Open Port Sampling Interface for High-Throughput SPME-MS/MS analysis of in vitroADME Samples;

 John Janiszewski¹; Brendon Kapinos²; Sara Smith³; Craig Aurand³; Chang Liu⁴; Tom Covey⁴; German Augusto Gomez-Rios⁵; ¹Pfizer Inc., Groton, CT; ²Pfizer Inc., Groton, CT; ³MilliporeSigma, Bellefonte, PA; ⁴SCIEX, Concord, ON, Canada; ⁵University of Waterloo, Waterloo, Ontario
- MP 148 Metabolomics and Biochemical Investigation of Anti-adipogenic Diarylheptanoids in Dioscorea zingiberensis C.H. Wright; Dan Du¹.²; Haiwei Gu¹; Danijel Djukovic¹; Lisa Bettcher¹; Daniel Raftery¹; Meng Gong¹.²; ¹University of Washington, Seattle, WA; ²West China-Washington Mitochondria and Metabolism Center, West China Hospital, Sichuan Univeristy, Chengdu, China
- MP 149 Optimum Use of Large Volume Injection Techniques for Metabolite Profiling Studies Low Radioactivity or Low Dose Exploratory Samples; Jessica Shoultz¹; Shelby Anderson²; David Heim¹; ¹Q2 Solutions, Indianapolis, IN; ²Q2 Solutions, Carmel, IN
- MP 150 Impact of Centroid or Profile Data in High-Resolution
 Mass Spectrometry Quantification: More Than a

 Detail?; Liesbeth Vereyken¹; Lieve Dillen¹; Rob J Vreeken¹;
 Filip Cuyckens¹; ¹Janssen R&D, Beerse, Belgium

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- MP 151 Chiral Analysis by Tandem Mass Spectrometry using the Kinetic Method, Polarimetry, and 1H NMR: An Organic I Laboratory.; Patrick W. Fedick¹; Ryan M. Bain¹; Kinsey Bain¹; R. Graham Cooks¹; ¹Purdue University, West lafayette, IN
- MP 152 TOFSim: A Labview Simulation for Teaching the Principles of Time of Flight Mass Spectrometry; Hannah Palmer¹; Bryan Fulmer²; Anh Duong²; Kevin Owens²; ¹Drexel University, Philadelphia, PA; ²Drexel University, Philadelphia, PA

- MP 153 Experimentally Comparing Three Detection Modes of TIMS for Isotopic Analysis of Ultra-Trace Level Uranium; Jong-Ho Park¹; Kahee Jeong²; ¹Korea Atomic Energy Research Institute, Daejeon, South Korea; ²Central Research Institute, Korea Hydro & Nuclear Power, Daejeon, South Korea
- MP 154 Certifying a New Ambient-Level Cr(VI) Reference Standard in Soil Matrix and Determining Cr(VI) in NIST 3280 Dietary Supplement Reference Standard; James Henderson¹; Patrick Benecewicz¹; Weier Hao¹; Logan Miller¹; Matt Pamuku²; Jennifer Crawford²; Teresa Switzer³; Vasile Furdui³; Pamela Wee⁴; Stuart Procter⁵; Francine Walker⁵; Bob O'Brien¹; H. M. Skip Kingston¹; ¹Duquesne University, Pittsburgh, PA; ²Applied Isotope Technologies Company, Pittsburgh, PA; ³Ministry of Environment, Toronto, ON, Canada; ⁴Agilent Technologies Inc., Santa Clara, CA; ⁵Metrohm USA, Inc., Riverview, FL; °Chemical Solutions Company, Harrisburgh, PA; ¬Sigma Aldrich Company, St. Louis, MO
- MP 155 Isotopic Analysis of Silicon in Environmental Samples:

 A New Indicator for Environmental Change?; Ren
 Tongxiang¹; Yanbei Zhu²; Yuanjing Zhou¹; Jun Wang¹;

 ¹National Institute of Metrology, Beijing, Chaoyang;
 ²National Metrology Institute of Japan, Tsukuba, Japan
- MP 156 Study the Influence of Sample Amount and Load Filaments on the Isotope Ratio Measurement using Total Evaporation Method; Song Wang¹; Jun Wang¹; ¹National Insititute of Metrology, Beijing, China
- MP 157 Total Evaporation Method for Accurate Analysis of Molybdenum Isotope Ratios using Thermal Ionization Mass Spectrometry; Panshu Song¹; Jun Wang¹; ¹National Institute of Metrology, Beijing, China

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- MP 158 Structural Elucidation of Petroleum Ions by CID on a 15T FT-ICR Mass Spectrometer; Ashley M Wittrig¹; Anthony S Mennito¹; Thomas R Fredriksen¹; Michael R Harper¹; ¹ExxonMobil Research and Engineering Company, Annandale, NJ
- MP 159 Investigating the Fragmentation Chemistry of Isomeric Polycyclic Aromatic Hydrocarbon Derivatives; Maha T. Abutokaikah¹; Curtis M. Stump¹; Eli S. LaChance¹; Christopher D. Spilling¹; Benjamin B. Bythell¹; ¹University of Missouri–St. Louis, St. Louis, MO
- MP 160 High Performance Thin Layer Chromatography with Atmospheric Solids Analysis Probe Mass Spectrometry for analysis of gasoline additives; Mathieu Beaumesnill 2; Anna Luiza Mendes Siqueira 1, 2; Marie Hubert-Roux 2; Amandine Racaud 1; Carlos Afonso 2; Yang Bai 1; 1 TOTAL Marketing & Services, Research Center, 69360 Solaize, France; 2 Normandie Univ., UNIROUEN, INSA Rouen, CNRS, COBRA, 76000 Rouen, France
- MP 161 Direct Analysis of a Butane Combustion Flame by using a High Resolution Multi-Turn Mass Spectrometer; Koji Okuda¹; Andrew John Dane¹; Takashi Satoh²; Yukinori Yahata²; Robert B Cody¹; ¹JEOL USA Inc., Peabody, MA; ²JEOL Ltd., Akishima, Japan
- MP 162 Different High Resolution Mass Spectrometry
 Approaches for the Investigation of Heavy Petroleum
 Fractions; Uwe Kaefer¹; Theo Schwemer²; Christopher
 Paul Rueger²; Thomas Groeger¹; Juergen Wendt³; Thomas
 Wilharm⁴; Ralf Zimmermann¹,²; ¹Helmholtz Center Munich
 Comprehensive Molecular Analytics, Munich, Germany;
 ²University of Rostock, Department of Analytical Chemistry,
 Rostock, Germany; ³LECO European Application &
 Technology Centre, Berlin, Germany; ⁴Analytik ServiceGesellschaft mbH, Augsburg, Germany



- MP 163 Molecular characterization of Heavy Petroleum Products using Data Processing-Enhanced 7 T LTQ FT-ICR MS; Florian Albrieux¹; Lyes Assam¹; Konstantin O. Nagornov²; Anton N. Kozhinov²; Yury O. Tsybin²; ¹/FPEN, Solaize, France; ²Spectroswiss Sàrl, Lausanne, Switzerland
- MP 164 Investigation of the Partial Oxidation of CH4/C2H5OH and CH4/O3-mixtures using a Plug-Flow Reactor and Time-Of-Flight Mass Spectrometry; Dennis Kaczmarek¹; Burak Atakan¹; Tina Kasper¹; ¹University of Duisburg-Essen, Duisburg, Germany
- MP 165 Characterization of organic compounds in Process Water from Colombian Oil Wells; Diana Catalina Palacio Lozano^{1, 2}; Enrique Mejía-Ospino¹; Mark P Barrow²;

 1 Universidad Industrial de Santander, Bucaramanga, Colombia; 2 University of Warwick, Coventry, Midlands
- MP 166 Molecular Characterization of Naphthenic Acids
 Extracted from a Heavy Crude Oil using MALDI FTICR
 Mass Spectrometry; Jeferson A. Valencia-Dávila¹; Matthias
 Witt²; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹;

 ¹Universidad Industrial de Santander, Bucaramanga,
 Colombia: ²Bruker Daltonik GmbH, Bremen, Germany
- MP 167 Selective Ionization of Vanadyl Porphyrins Extracted from South American heavy oils using a Novel Electron Transfer MALDI Matrix; Deisy Giraldo-Dávila¹; Martha L. Chacón-Patiño¹; Juan S. Ramírez-Pradilla¹; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia
- MP 168 Application of On-line Liquid Chromatography
 Coupled to Ultra-High Resolution 21 T FT-ICR Mass
 Spectrometry for Petroleum Analysis; Donald F. Smith¹;
 Steven M. Rowland^{1, 2}; Greg T. Blakney¹; Yuri E. Corilo^{1, 2}; Christopher L. Hendrickson^{1, 2, 3}; Ryan P. Rodgers^{1, 2, 3};

 ¹National High Magnetic Field Laboratory, Florida State
 University, Tallahassee, FL; ²Future Fuels Institute, Florida
 State University, Tallahassee, FL; ³Department of Chemistry
 and Biochemistry, Florida State University, Tallahassee, FL
- MP 169 Estimation of Confidence in Assigning True Molecular Formulae of Complex Mixtures; Yuri E. Corilo^{1, 2}; Melaine C. De Oliveira³; Donald F. Smith⁴; Ryan P. Rodgers^{2, 4, 5}; Christopher L. Hendrickson^{2, 4, 5}; *1National High Magnetic Field Laboratory, Tallahassee, FL; *2Future Fuels Institute, Florida State University, Tallahassee, Florida; *3Department of Statistics, Florida State University, Tallahassee, FL; *1National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; *5Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL
- MP 170 Direct-coupling of Different Chromatographic Separation Methods to Ultrahigh Resolution Mass Spectrometry for the analysis of crude oil and Its Fractions; Wolfgang Schrader¹; Alessandro Vetere²;

 ¹Max-Planck Inst für Kohlenforschung., Mülheim / Ruhr;
 ²Max-Planck-Institut für Kohlenforschung, Mülheim / Ruhr, Germany
- MP 171 Comparison and Evaluation of Electron Ionization,
 Photoionization, and Field Ionization for the Analysis
 of Heteroatom Compounds in Petroleum Derived Fuels;
 Krege Matthew Christison: Chevron, Richmond, CA
- MP 172 Characterization of Soluble Components in Coals and Interpretation for the Complex Mass Spectra; Xing Fan¹-2; Xueming Dong²; Yuyang Zhang²; Hilkka Kenttamaa²; ¹China University of Mining & Technology, Xuzhou, Jiangsu; ²Purdue University-Department of Chemistry, West Lafayette, IN
- MP 173 Comparison of Atmospheric Pressure Chemical Ionization and Field Ionization Mass Spectrometry for the Analysis of Large Saturated Hydrocarbons; Yuyang Zhang¹; Chunfen Jin¹; Jyrki Viidanoja²; Jeremy Manheim¹; Mingzhe Li¹; Hilkka Kenttamaa¹; ¹Purdue University-Department of Chemistry, West Lafayette, IN; ²Neste Corporation, Finland

- MP 174 Differentiation of Isomeric Hydrocarbon Ions
 Containing Five- and Six-Membered Naphthene Rings
 by using Energy-Resolved Medium Energy CollisionActivated Dissociation (MCAD); Mark Romanczyk¹;
 Jyrki Viidanoja²; Hilkka Kenttamaa¹; ¹Purdue UniversityDepartment of Chemistry, West Lafayette, IN; ²Thermo
 Fisher Scientific, Vantaa, Finland
- MP 175 Structural Determination of Polycyclic Aromatic Hydrocarbons by Ion Mobility Mass Spectrometry;

 Priscila M. Lalli^{1, 2}; Yuri E Corilo^{2, 3}; Martha L. Chacón-Patiño³; RYAN P. RODGERS^{2, 3, 4}; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²Future Fuels Institute, Florida State University, Tallahassee, FL; ³National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ⁴Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL
- MP 176 Direct Infusion APCI MS Analysis of Mixtures of Large Saturated Hydrocarbons by Using Different Hydrocarbon Solvents; Jeremy Manheim¹; Yuyang Zhang¹; Chunfen Jin¹; Jyrki Viidanoja²; Hilkka Kenttamaa¹; ¹Purdue University-Department of Chemistry, West Lafayette, IN; ²Neste Corporation, Finland
- MP 177 Acceleration of Field-Activated TiO2-catalyzed Oil Degradation in Microdroplets; Yin-Hung Lai¹; Zhenpeng Zhou¹; Chanbasha Basheer²; Richard N Zare¹; ¹Stanford University, Stanford, CA; ²Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
- MP 178 FT-ICR-MS Data Provide Structural Features of Heavy Crude Oil Components; Cristian Blanco-Combariza¹; Marianny Y Combariza¹; Cristian Blanco-Tirado¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia
- MP 179 **Portable H2 Sensor**; <u>Takashi Nohmi</u>; *HysafeNohmi, Setagaya-Ku, Japan*
- MP 180 Prediction of the SARA Analysis of Colombian Crude
 Oils Using APPI(+)-FTICR MS Coupled to PLS with GA
 Variable Selection; Enrique Mejia-Ospino¹; Diana Catalina
 Palacio¹; Jorge A. Orrego-Ruiz²; Jader E. Guerrero¹;
 Rafael Cabanzo¹; ¹Universidad Industrial de Santander,
 Bucaramanga, SDER; ²Instituto Colombiano de Petróleos
 (ICP), Piedecuesta, Colombia
- MP 181 Prediction of the SARA and CCR Analysis of Colombian Crude Oils Using LDI(+)-TOF/TOF MS Coupled to PLS; Enrique Mejia-Ospino¹; Jader E. Guerrero¹; Monica A. Flórez¹; Rafael Cabanzo¹; ¹Universidad Industrial de Santander, Bucaramanga, SDER

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- MP 182 Quantification of Urethane in Brazilian Cachaças using GC-MS; Tatiane Guerreiro¹; Kumi Shiota Ozawa²; Rodrigo Ramos Catharino¹; ¹Innovare Biomarkers Laboratory, Campinas, Brazil; ²Agilent Technologies, São Paulo, Brazil
- MP 183 Detection of Harmful Carbonyl Compounds in E-Cigarette Liquids via in-situ Derivatization Nano-Electrospray Ionization Mass Spectrometry; Tavleen K. Kochar¹; Gary L. Glish¹; ¹University of North Carolina at Chapel Hill, Chapel Hill, NC
- MP 184 Investigation of Extracted and Leached Analytes from Packaging Materials with GC-MS and High Resolution MS; Elizabeth Humston-Fulmer¹; Joe Binkley¹; ¹LECO Corporation, Saint Joseph, MI
- MP 185 Direct Analysis of Glyphosate in wine with No Sample Preparation using an LC-MS/MS System with a Stay Clean Source; Sharanya Reddy¹; Matteo Meglioli²; Frank Kero¹; ¹PerkinElmer, Shelton, CT; ²Mosti Mondiale Inc, Québec, QC, Canada



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A Multi-Laboratory Comparison of MS Platforms for the Targeted Analysis of Peanut in Food; Victoria Lee1; Rebekah L Savers¹: Ivona Baricevic-Jones¹: Carol-Ann Costello¹; Sabine Baumgartner²; Christine H Parker³; Gavin O'Connor⁴; Philip Johnson⁵; E. N. C Mills¹; ¹University of Manchester, Manchester, UK; 2University of Natural Resources and Life Sciences - BOKU, Vienna, Austria; ³FDA Center for Food Safety, College Park, MD; ⁴JRC IRMM, Geel, Belgium; 5University of Nebraska, Lincoln, NE

MP 188 Determination of multiple pesticide residue in Green Chilli by GC-MS/MS using Modified QuEChERS as an Extraction Method; Sanket Chiplunkar¹; Dheeraj Handique¹; Ankush Bhone¹; Prashant Hase¹; Durvesh Sawant¹; Nitish Survawanshi¹; Ajit Datar¹; Jitendra Kelkar¹; Pratap Rasam¹; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India

MP 189 Highly Sensitive and Rapid Analysis of Synthetic dyes in Sea Food by LC/MS/MS; Shailesh Damale1; Anant Lohar¹; Shailendra Rane¹; Purushottam Sutar¹; Ashutosh Shelar1; Deepti Bhandarkar1; Rashi Kochhar1; Jitendra Kelkar¹; Pratap Rasam¹; Ajit Datar¹; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India

MP 190 **Determination of Polycyclic Aromatic Hydrocarbons in** a Candidate Yerba Mate Standard Reference Material by GC-MS; Jacolin A. Murray¹; Michele M. Schantz¹; Laura J. Wood¹; Melissa M. Phillips¹; Stephen A. Wise^{1, 2}; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²National Institutes of Health, Bethesda, MD

MP 191 LC-MS/MS and DART-HRMS Screening of Beverages for Sweeteners; Luke K Ackerman¹; Nicole Shyong¹; ¹FDA Center for Food Safety, College Park, MD

MP 192 A Novel Fast and Simple Quantification Method for Vitamins, Complements and contaminants in Milk Infant Formulas by LC-MS/MS; Aurore Jaffuel¹; Thierry Legoupil¹; Alban Huteau1; 1Shimadzu France, Paris, France

MP 193 Improving Gas Chromatograph-Mass Spectrometer System Longevity for Multi-Residue Pesticide Methods in Matrix Through Inert Microfluidic Retention Gap Technology; Rebecca Veeneman¹; Matthew Giardina¹; ¹Agilent Technologies, Wilmington, Delaware

MP 194 Sample Profiler: A Cloud Based Application for Confirming Food Authenticity; Srividya Kailasam¹; Ralf Tautenhahn²; Tim J. Stratton²; ¹Thermofisher Scientific, Bangalore, India; 2ThermoFisher, San Jose, CA

MP 195 Application of SFC-MS/MS for the Quantification of Highly Polar Pesticides in a Range of Food Samples; David Baker1; Chris Titman1; Jonathan Horner2; Neil Loftus¹; ¹Shimadzu, Manchester, UK; ²Scientific Analysis Laboratories, Cambridge, UK

Screening of Pesticides and other contaminants in MP 196 Food Matrices using a Novel High Resolution GC/Q-TOF with Low-Energy Capable El Source; Kai Chen1; Jennifer Sanderson¹; ¹Agilent Technologies, Santa Clara, CA

MP 197 Using Pressurized Liquid Extraction for the Extraction and Analysis of Pesticides in Cannabis Samples; Philip M Germansderfer¹; Hamid R Shirkhan¹; ¹Fluid Management Systems, Watertown, MA

MP 198 Direct Analysis of glyphosate and Similar Polar Pesticides in Various Food Matrices; Dimple Shah1; Euan Ross²; Benjamin Wuyts²; Eimear McCall²; Gareth Cleland¹; Kenneth Rosnack¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK

MP 199 Automated Extraction and Clean Up of POPs Using a Green Low Solvent System; Hamid R Shrikhan¹; Waleed Hassan¹; ¹Fluid Management Systems, Watertown, MA

MP 200 Multiresidue Pesticide Analysis in Fruit and Vegetable Commodities Using Both UPLC and APGC on a Single Mass Spectrometer Platform; Kari Organtini1; Eimear McCall²; Gareth Cleland¹; Kenneth Rosnack¹; ¹Waters Corporation, Milford, MA; 2Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK

MP 201 Advances in Ion Mobility Mass Spectrometry to Further Characterize Contaminants in Food; Lauren Mullin^{1,} 2; Gareth Cleland1; Andrew Baker3; Mike McCullagh4; Sara Stead⁴; Kenneth Rosnack¹; Joe Romano¹; ¹Waters Corporation, Milford, MA; 2Örebro University, Örebro, Sweden; 3Waters Corporation, Pleasanton, CA; 4Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK

MP 202 **Development of a Comprehensive Multiplex Allergen Detection MRM Method for Standardized Food Testing**; Derek Croote¹; Ido Braslavsky²; Karolina M Krasinska³; Stephen R Quake1; 1Stanford University, Stanford, CA; ²Hebrew University, Jerusalem, Israel; ³Stanford University Mass spectrometry, Stanford, CA

MP 203 **Target Peptide Identification for the Mass Spectrometric Detection of Soy Proteins in Food Matrices**; Shimin Chen1; Charles Yang2; Melanie Downs1; 1Food Allergy Research and Resource Program, Department of Food Science and Technology, University of Nebraska-Lincoln, Lincoln, NE; 2Thermo Fisher Scientific, San Jose, CA

MP 204 Analysis of Polychlorinated Biphenyls in Coffee using **Automated Extraction and Reduced Solvent Volume** Clean Up; Thomas G Hall¹; Alexander Sharapov¹; ¹Fluid Management Systems, Watertown, MA

Fully Automated Derivatization -Quantification of MP 205 Glyphosate and AMPA in Beer using a Standard UHPLC-MS/MS System; <u>Julia Sander</u>1; Anja Grüning1; Robert Ludwig¹; Philipp Jochems¹; ¹Shimadzu Europa GmbH, Duisburg, Germany

MP 206 Analysis of Mycotoxins in Cereal and Corn without Derivatization via LC-MS/MS with Time-Managed MRMs; Wilhad Reuter¹; Avinash Dalmia¹; ¹PerkinElmer Inc, Shelton, CT

MP 207 A Data-dependent Workflow for Selection of Peptide Targets for Robust Detection of allergens in Difficult Food Matrices; Justin T Marsh¹; Charles Yang²; Philip Johnson¹; ¹University of Nebraska, Lincoln, NE; ²Thermo Fisher Scientific, San Jose, CA

MP 208 Fast and Extended Analysis of 213 FDA Regulated Pesticides in Organic and Non-organic Grapes by LC-MS/MS using Time-Managed-MRM; Joshua Ye1; Feng Qin1; Shixin Sun1; Avinash Dalmia2; Wilhad Reuter2; Sergey Rakov²; Jamie Foss³; Frank Kero³; ¹PerkinElmer LAS Canada Inc, Woodbridge, ON, Canada; ²PerkinElmer Inc, Shelton, CT; 3PerkinElmer, Downers Grove, IL

MP 209 **Analytical Confirmation of Sildenafil Analogues** Adulterated in Dietary Supplements; Nam Sook Kim1; Ji Hyun Lee¹; Kyu Yeon Kim¹; Han Na Park¹; Hyoung-Joon Park¹; Taeik Hwang¹; Seok Heo¹; Jeong-Hwa Cho¹; Junhyoung Kim1; Dong Woo Shin1; Seongsoo Park1; Sung-Kwan Park¹; Sun Young Baek¹; ¹Ministry of Food and Drug Safety, Cheongju-si, Chungcheongbuk-do

MP 210 Released Volatiles Analysis of Flavor Capsules in Cigarette Filter under Simulated Working Conditions by Headspace-GC×GC-MS; Xiangvu Li¹; Hongfei Zhang¹; Xingyi Jiang¹; Yanbo Luo¹; Fengpeng Zhu¹; Shaodong Hu¹; Yongqiang Pang¹; ¹China National Tobacco Quality Supervision & Test Centre, Zhengzhou, China

MP 211 Fast and Robust Multiresidue Analysis of Highly Polar Pesticides by Ion Chromatography Coupled to High Resolution Mass Spectrometry; Łukasz Rajski1;

Francisco José Díaz-Galiano¹; Víctor Cutillas¹; Amadeo R. Fernández-Alba¹; ¹European Union Reference Laboratory for Pesticide Residues in Fruit & Vegetables, Almería, Spain MP 212 Infant Exposure to Arsenic and Lead From Rice Cereal and Bottled Water; Marc E. Engel¹; Donald M Axelrad²; ¹FDACS, Tallahassee, FL; ²Florida A&M University College of Pharmacy and Pharmaceutical Sciences Institute of Public Health, Tallahassee, FL

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- MP 213 Multiplexing Hard and soft Electron Ionisation for Improved Speciation of Cannabinoids; Chris Hall¹;
 Natasha Spadafora¹; Laura McGregor¹; Matthew Edwards²;
 Pete Grosshans¹; Nick Bukowski¹; ¹Markes International,
 Llantrisant, Cardiff; ²SepSolve Analytical, Peterborough, UK
- MP 214 Screening of Drugs of Abuse and Pesticides in Liver following Homogenization and Supported Liquid Extraction (SLE) prior to GC/MS Analysis; Rhys Jones¹; Katie-Jo Teehan¹; Lee Williams¹; Geoff Davies¹; Helen Lodder¹; Adam Senior¹; Alan Edgington¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited, Cardiff
- MP 215 Direct Detection of Security Relevant Substances on Surfaces via Ambient Pressure Laser Desorption Mass Spectrometry; René Reiss¹; Sven Ehlert¹.²; Ralf Zimmermann¹.³; ¹University of Rostock, Department of Analytical Chemistry, Rostock, Germany; ²Photonion GmbH, Schwerin, Germany; ³Joint Mass Spectrometry Centre, Comprehensive Molecular Analytics, Helmholtz Zentrum München, München, Germany
- MP 216 Chemical Imaging of Cyanoacrylate Fumed Fingerprints Using MALDI-Orbitrap; Kelly O'Neill¹; Paige Hinners¹; Young-Jin Lee¹; ¹lowa State University, Ames, IA
- MP 217 Rapid Screening and Determination of New Psychoactive Substances by Direct Analysis in Real Time Mass Spectrometry and LC/QTOFMS; Honggang Nie¹; Xianjiang Li¹; Zhendong Hua²; Wei Pan¹; Xiaofang Fu¹; ¹Peking University, Beijing, Beijing; ²National Narcotics Laboratory, Beijing, China
- MP 218 Chemical Identification in Latent Fingerprints for Lifestyle Determination; Paige Hinners¹; Kelly O'Neill¹; Young-Jin Lee¹; *Iowa State University, Ames, IA
- MP 219 An LC-QTOF-MS Assay for Post-Mortem Drug
 Screening in Dental Hard Tissue Samples; Laura M.
 Huppertz¹; Miriam Klima¹; Miriam C. Kuales²; Markus
 J. Altenburger²; Volker Auwärter¹; Merja A. Neukamm¹;
 ¹Institute of Forensic Medicine, Forensic Toxicology, Medical
 Center University of Freiburg, Freiburg, Germany; ²Center
 for Dental Medicine, Department of Operative Dentistry and
 Periodontology, Medical Center University of Freiburg,
 Freiburg, Germany
- MP 220 Paper Cone Spray Ionization Sources Featuring Integrated Extraction and Filtration for On-Site Forensic Applications; William L. Fatigante¹; Zachary E. Lawton¹; Alessandra M. Bruno¹; Shahnaz Mukta¹; Michael C. Gizzi¹; Christopher C. Mulligan¹; ¹/llinois State University, Normal,
- MP 221 Development of Laser Ablation Direct Analysis in Real Time Imaging Mass Spectrometry (LADI-MS): Applications to Forensics Imaging; Kristen Fowble¹; Rabi A Musah¹; ¹University at Albany, Albany, NY
- MP 222 Speciation of Antimony in Biological Samples by Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry; Yuko Kazui¹; Yasuo Seto¹; Shinichi Suzuki¹; Yasuhiro Suzuki¹; Ritsuko Sugita¹; Hikoto Ohta¹; Masaaki Kasamatsu¹; Hajime Miyaguchi¹; Takao Igawa¹; ¹National Research Institute of Police Science. Kashiwa

- MP 223 Collection and Analysis of Drugs using Electrospun Nanofibers with Microfluidic Extraction and Tandem Mass Spectrometry; Yufei Chen¹; Pei Zhu²; Xiangwu Zhang¹; Nelson Vinueza²; ¹North Carolina State University, Raleigh, NC; ²North Carolina State University, Raleigh, NC
- MP 224 The Detection of Designer Drugs from Plasma via Paper Spray Mass Spectrometry; <u>Greta Jakstonyte Ren</u>1; Nicholas Manicke1; 'IUPUI Department of Chemistry & Chemical Biology, Indianapolis, IN
- MP 225 Separation and Identification of Organic Compounds in Gun Powders Using LC-MS Techniques; Danielle Kirby¹; Michael J. Van Stipdonk¹; Stephanie J. Wetzel¹; Logan Miller¹; Kyle Brown¹; ¹Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA
- MP 226 LC-MSMS Analysis of Hair Samples for the Detection of Prohibited Substances in Equine and Canine Sport;

 Bob Gray¹; Marjaana Viljanto¹; Eleanor Menzies¹; Stephanie Thompson¹; Erin Crum¹,²; James Scarth¹; ¹LGC Ltd,

 Middlesex; ²LGC Ltd US, lexington, KY
- MP 227 Detection of Antifungal Drugs and Their Main Metabolites in Human Urine by LC-MS-based Techniques: Implications in Doping Analysis; Monica Mazzarino¹; Fabio Comunità¹; Xavier de la Torre¹; Francesco Botrè¹.²; ¹Antidoping Laboratory of Rome, Rome, Italy; ²Università degli studi di Roma "Sapienza", Rome, Italy
- MP 228 Using Differential Mobility Spectrometry to Separate Chiral Compounds: Amphetamines; J. Larry Campbell¹; J.C. Yves Leblanc²; Chang Liu²; ¹SCIEX, Concord, ON, Canada: ²SCIEX, Concord, ON, Canada. ON, Canada
- MP 229 Multivariate Data Interpretation of Direct Biomarkers of Ethanol Consumption for Forensic Purposes; Marco Vincenti^{1,2}; Eugenio Alladio^{1,2}; Martyna Agnieszka³; Alberto Salomone²; Valentina Pirro⁴; Grzegorz Zadora^{3,5}; ¹Dept. of Chemistry, Università di Torino, Torino, Italy; ²Centro Regionale Antidoping e di Tossicologia "A. Bertinaria", Orbassano (Torino), Italy; ³Department of Analytical Chemistry, The University of Silesia, Katowice, Poland; ⁴Dept. of Chemistry, Purdue University, West Lafayette, IN; ⁵Institute of Forensic Research, Krakow, Poland
- MP 230 Compact Mass Spectrometer (CMS) Analysis of Uniformly 13C-labeled Amino Acids to Identify Authentic Therapeutic Drugs and Protect against Counterfeits; Daniel Eikel¹; Simon J Prosser²; Chris Beecher³; ¹Advion Inc., Ithaca, NY; ²Advion Inc., Ithaca, NY; ³IROA Technologies, Bolton, MA
- MP 231 **Development of a Portable nLC-EI-MS**; <u>Clyde Hale</u>¹; Mehdi Moini²; ¹George Washington University , Washington, DC; ²George Washington University, Washington, DC
- MP 232 Comparison between DSA TOF-MS and DART TOF-MS for the Analysis of Writing Inks; Nicholas L. Drury¹; Mehdi Moini²; ¹George Washington University, Washington, DC; ²George Washington University, Washington, DC

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- MP 233 Time-resolved Measurement of Ion Yields During IR-MALDESI Analysis of Biological Tissues; Måns Ekelöf¹; David C. Muddiman¹; ¹North Carolina State University, Raleigh, NC
- MP 234 Sonic Versus ESI Ionization for Noncovalent Interactions; Abdil Ozdemir¹; Mustafa Gulfen¹; Jung-Lee Lin²; Chung-Hsuan Chen²; ¹Sakarya University, Adapazari, Sakarya; ²Academia Sinica, Taipei, Taiwan
- MP 235 Opposite Polarity Electrical Charge on Electrosprayed Bacterial Spores: Implications for Electrospray Mechanism; Jiuzhi Gao¹; Ames Ettinger¹; Richard A. Robison¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT



- MP 236 Proteins Unfold During Supercharging Electrospray Ionization: Evidence from Ion Mobility-Mass Spectrometry Charge and Size Scaling Behavior; Micah T. Donor¹; Simon A. Ewing¹; Muhammad A. Zenaidee²; William A. Donald²; James S. Prell¹; ¹University of Oregon, Eugene, OR; ²University of New South Wales, Sydney, Australia
- MP 237 Comparing the Effects of Additives on Protein Analysis by DESI and ESI; Elahe Honarvar¹; Andre R. Venter¹;

 Western Michigan University, Kalamazoo, MI
- MP 238 Understanding Electrospray Ionization Mechanisms of Biomolecules using In-Plume Laser-Induced Fluorescence; Prince Tiwari¹; Martin F. Czar¹; Renato Zenobi¹; ¹ETH Zurich, Department of Chemistry and Applied Biosciences, Zurich, Switzerland
- MP 239 Optimization of Electrospray Ionization Conditions for Enhanced Protonation of Small Peptides by Chromium(III); Juliette Joan Commodore¹; Carolyn J Cassady¹; ¹The University of Alabama, Tuscaloosa, AL

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- MP 240 Hydrogenproduction from Formic Acid using Gas-Phase Zinc-Based Catalysts; Elettra L Piacentino¹; Michael Lesslie¹; Richard A. J. O'Hair²; Thomas M. Gilbert¹; Victor V. Ryzhov¹; ¹Northern Illinois Univeristy, dekalb, IL; ²University of Melbourne, Melbourne, Australia
- MP 241 Electron Transfer Dissociation and Collision-Induced Dissociation of Trivalent Metal-Adducted Oligosaccharides; Ranelle Schaller-Duke¹; Carolyn J Cassady²; ¹The University of Alabama, Tuscaloosa, Al; ²The University of Alabama, Tuscaloosa, AL
- MP 242 Exploring Halide Anion Affinity of Cyclodextrins by Electrospray Ionization Mass Spectrometry and Molecular Modeling; Chongsheng Xu¹; Yanqiu Chu¹; Chuan-Fan Ding¹; ¹Fudan University, Shanghai, Shanghai
- MP 243 Using a Priori Intrinsic Size Parameters to Predict Ion Mobilities and Understand the Folding Patterns of Modified and Metalated Peptides; Julia L. Kaszycki¹; Matthew A. Baird¹; Andrew P. Bowman¹; Alexandre A. Shvartsburg¹; 'Wichita State University, Wichita, KS
- MP 244 Energy Deposition During Electron Ionization of Molecules; Karl Irikura; Natl Inst Standards & Tech, Gaithersburg. MD
- MP 245 Theoretical Studies on Reactions of Gas Phase lons with Water Covered α-quartz Surfaces; Alexander Haack¹; Walter Wissdorf¹; Hendrik Kersten¹; Thorsten Benter¹; ¹University of Wuppertal, Wuppertal
- MP 246 Developing a Fundamental Understanding of Inlet Ionization through Density Functional Theory (DFT);

 Wen-Jing Zhang¹; Bishnu Thapa¹; H. Bernhard Schlegel¹;

 Sarah Trimpin¹; ¹Department of Chemistry, Wayne State University, Detroit, MI
- MP 247 Theoretical Investigation of the Reactivity of para-Benzyne Ions Toward Cyclohexane in the Gas Phase; <u>Jacob R Milton</u>¹; Huaming Sheng²; Xin Ma¹; John J Nash¹; Hilkka I Kenttamaa¹; ¹Purdue University-Department of Chemistry, West Lafayette, IN; ²Merck Department of Process and Analytical Chemistry, Rahway, NJ
- MP 248 Peptide Ion Structure Investigation; From Conformational Space Sampling to Accurate CCS Calculation; Samaneh Ghassabi Kondalaji¹; Mahdiar Khakinejad²; Stephen J. Valentine²; Amirmahdi Tafreshian²; ¹West Virginia University, Morgantown, wv; ²West Virginia University, Morgantown, WV
- MP 249 Stability of a Transient Protein Complex in a Charged Aqueous Droplet with Variable pH; Styliani Consta; London, ON, Canada

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- MP 250 Selective Ion Ultraviolet Photodissociation (UVPD)
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 of Peptide and Protein Ions; <u>Dustin D Holden</u>; James
 D Sanders¹; Jennifer S Brodbelt¹; ¹University of Texas at
 Austin, Austin, TX
- MP 251 Study on the Solvent Clusters' Effect on Ionization Efficiency of Polycyclic Aromatic Hydrocarbons by (+) Atmospheric Pressure Photoionization; Seulgidaun Lee¹; Arif Ahmed¹; Sunghwan Kim¹; ¹Kyungpook National University, Daegu, South Korea
- MP 252 Capture of Fleeting Amine Radical Cations and Elucidation of Chain Processes in Visible Light-Mediated [3+2] Annulation by Mass Spectrometry; Yi Cai¹; Jiang Wang²; Yuexiang Zhang¹; Zhi Li¹; Hao Chen¹; Nan Zheng²; ¹Ohio University, Athens, OH; ²University of Arkansas, Fayetteville, AR
- MP 253 **REMPI and MATI Spectroscopy of Pyridine Derivatives**; Niklas Helle¹; Sascha Krüger¹; Tassilo Muskat¹; Jürgen Grotemeyer¹; *Inst. f. Phys. Chem der CAU zu Kiel, Kiel

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- MP 254 **Low Pressure Ultra-Fast GC-MS**; <u>Alexander B. Fialkov</u>¹; Aviv Amirav¹; ¹Tel Aviv University, Tel Aviv, Israel
- MP 255 High Speed Analysis: Combining Fast GC with Timeof-Flight Mass Spectrometry for Complex Sample Analysis in Under One Minute; Jonelle Shiel¹; Matthew Soyk²; Aviv Amirav³.⁴; Alex Fialkov³; Viatcheslav Artaev²; ¹LECO Corporation, St. Joseph, MI; ²LECO Corporation, St. Joseph, MI; ³School of Chemistry, Tel Aviv University, Tel Aviv, Israel; ⁴Aviv Analytical Ltd, Tel Aviv, Israel
- MP 256 GCxGC-HRMS: Combining Multidimensional GC with Ultra High Resolution Time-of-Flight Mass Spectrometry for Comprehensive Analysis of Complex Samples; Viatcheslav Artaev¹; Scott J. Pugh²; George Tikhonov²; ¹LECO Corporation, St Joseph, MI; ²LECO Corporation, St. Joseph, MI
- MP 257 Development and Application of a Sensitive Analytical Method for the Analysis of Cyanobacteria-Related Off-Flavor Compounds in Water using GC-MS/MS;

 Morgan Solliec1; Benoit Barbeau1; 1Polytechnique Montréal NSERC Industrial Chair on Drinking Water, Montréal, QC, Canada, Canada
- MP 258 Improving the Chromatographic Capabilities of an Atmospheric Pressure Chemical Ionisation Source Coupled to a Gas Chromatograph; Gareth Rhys Jones¹; David Douce¹; Richard Jarrold¹; Anthony Hesse¹; ¹Waters Wilmslow UK, Wilmslow, Cheshire
- MP 259 Online GCMS Measurement Method using Autosampler: SPME and Purge-Trap Technique; Jaewon Choi¹; Sung-Yun Ahn¹; Wonkyung Lee²; Il-hwan Choi¹; Yuns Kim¹; ¹Kwater, Daejeon, Daejeon; ²Euro Science, Seoul, South Korea
- MP 260 Evaluation of Field Ionization Source Parameters Using GCxGC-FI-TOFMS for Petroleum Distillate Fractions Analysis; Hung Anthony Pham¹; Wayne Rathbun¹; Haiyan Wang¹; Kendall Guyer¹; ¹UOP LLC, Des Plaines, IL
- MP 261 Residual Solvents Analysis: Satisfying USP 467 Using a New Benchtop Time-of-Flight Mass Spectrometer; Joe Binkley¹; Christina Kelly²; Lorne Fell¹; ¹LECO Corporation, Saint Joseph, MI; ²LECO Corporation, Saint Joseph, MI
- MP 262 Japanese Lacquer Film Analysis by using Pyrolysis Comprehensive Two-Dimensional GC (Py/GCxGC) and High-Resolution TOFMS with Electron Ionization and Photoionization; Masaaki Ubukata¹; Jun Onodera¹; Noriyasu Niimura¹; Andrew John Dane²; Yoshimi Kamiya³; ¹JEOL Ltd., Akishima, Japan; ²JEOL USA Inc., Peabody, MA; ³Tokyo Metropolitan Industrial Technology Research Institute, Akishima, Japan



- MP 263 Estimation of Elemental Compositions for Additives in Polymers using Newly Developed El/Cl Ion Source without Venting MS; Yukihiko Kudo¹; Riki Kltano²; Yoshiro Hiramatsu¹; Yuki Sakamoto¹; Katsuhiro Nakagawa¹; Haruhiko Mlyagawa¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Scientific Instruments, Columbia, MD
- MP 264 The Analysis of All 209 PCB Isomers using GC-APCI-MS/MS at Selected Collision Energies and Correlation with Toxicity; Jerry Hart¹; Gareth Rhys Jones²; Malcolm Clench¹; ¹BMRC, Sheffield Hallam University, Sheffield, UK; ²Waters Corporation, Wilmslow, UK
- MP 265 Interleaving Ionisation Energy for Enhanced Confidence in the Identification of Fragrance Allergens; Pete Grosshans¹; Natasha Spadafora¹; Matthew Edwards²; Laura McGregor¹; Chris Hall¹; Nick Bukowski¹; ¹Markes International, Llantrisant, Cardiff; ²SepSolve Analytical, Peterborough, UK
- MP 266 Coupling of Microfabricated GC Columns with a High Pressures Ion Trap Mass Spectrometer; Yury Desyaterik¹; John Perry¹; Tina E. Stacy¹; Jean Pierre Alarie¹; Kevin Schultze²; J. Michael Ramsey¹; ¹UNC Chapel Hill, Chapel Hill, NC; ²908 Devices Inc., Boston, MA
- MP 267 Tandem Vacuum Ultraviolet Spectroscopy and Mass Spectrometry for Improved Identification of GC-Eluting Species; Ian G. M. Anthony¹; Matthew R. Brantley¹; Christina A. Gaw¹; Adam R. Floyd¹; Touradj Solouki¹; ¹Baylor University, Waco, TX
- MP 268 Using Low Electron Energy Automatic Tuning to Increase High Mass Sensitivity on Orbitrap GC/MS;
 Xin Zheng¹; Jason Cole¹; Brody Guckenberger¹; Deven Shinholt¹; Cristian Cojocariu²; Paul Silcock², ¹Thermo Fisher Scientific, Austin, TX; ²Thermo Fisher Scientific, Runcorn, UK
- MP 269 Applications for a Newly Developed Miniature GC-MS System; Kevin P Schultze¹; James A Roush¹; Emily E Dunn²; Andrew C McDowell¹; Scott E Miller¹; ¹908 Devices Inc., Boston, MA; ²Northeastern University, Boston, MA
- MP 270 Analysis of Pesticides and Environmental Pollutants in Essential Oil Using Multi-Platform GC/SQ, GC/TQ and GC/Q-TOF; Vivian Xianyu Chen¹; Kai Chen²; Bruce Quimby³; Andy Zhai¹; ¹Agilent Technologies, Shanghai, China; ²Agilent Technologies, Santa Clara, CA; ³Agilent Technologies, Wilmington, DE
- MP 271 Reduction in El Source Contamination: The Benefits of a Novel GC with an Inert Microfluidic Flow Path;

 Matthew Giardina¹; Rebecca Veeneman²; ¹Agilent Technologies, Inc., Wilmington, DE; ²Agilent Technologies, Inc., Wilmington, DE
- MP 272 Use of Methylamine PICI for Qualitative Analysis by GC/Q-TOF; Ryo Ogasawara¹; Sadao Nakamura¹; ¹Agilent Technologies Japan, Hachioji-shi, Tokyo
- MP 273 Allergens in Perfume by GC/Q-TOF with a Low Energy El Source; Jennifer Sanderson¹; Matthew Curtis²; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Santa Clara, CA
- MP 274 Analysis of Sulfur Containing Compounds in Heavy
 Matrices using Low Energy Electron Ionization; Matthew
 Curtis¹; Jennifer Sanderson²; ¹Agilent Technologies, Santa
 Clara, CA; ²Agilent Technologies, Inc., Santa Clara, CA

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- MP 275 **3D DESI-MS Lipid Imaging of a Xenograft Glioblastoma**; Fiona Henderson¹; Emrys Jones²; Joanna Denbigh³; Lidan Christie¹; Emmanuelle Claude²; Kaye J Williams¹; Adam McMahon¹; ¹The University of Manchester, Manchester, UK; ²Waters Corporation, Wilmslow, UK; ³University of Salford, Salford, UK
- MP 276 Direct Imaging and Profiling of Mycobacterium tuberculosis and Fungal Lipids within Infected Tissue Lesions by MALDI-MSI and Laser Capture

Veronique Dartois¹; ¹PHRI, Rutgers University, Newark, NJ
MP 277
Study of Changes in the Kidney's Lipid Profile in the
Case of Obesity using MALDI-ToF Imaging and ESI LCMS-MS Analysis; Gianluca Sighinolfi¹; Daniela Cota²; Marc
Bonneu¹; Jean-Marie Schmitter¹; Boutayna Rhourri-Frih¹;

¹CBMN, Bordeaux, France; ²Inserm, Bordeaux, France

Microdissection; Brendan Prideaux¹; Landry Blanc¹;

- MP 278 Age-dependent Shift in Ganglioside Abundance
 Detected in Transgenic APP Rats using MALDI
 Imaging Mass Spectrometry; Sarah Caughlin¹; Shikhar
 Maheshwari²; Ken K.-C. Yeung²; David F. Cechetto²; Shawn
 N. Whitehead³; ¹Western University, London, Ontario;
 ¹University of Western Ontario, London, ON, Canada;
 ³University of Western Ontario, London, ON, Canada
- MP 279 Analysis of the Probiotics Effect on Bowel Inflammation by MALDI-ToF Imaging and LC-MS-MS; Stefania
 Pozzan¹; Maria Urdaci¹; Mohamed Mokrani¹; Marc Bonneu¹;
 Jean-Marie Schmitter¹; Boutayna Rhourri-Frih¹; ¹CBMN,
 Bordeaux, France
- MP 280 MALDI Imaging Mass Spectrometry of Lipids in Nevi; Jone Garate¹; Veronica Velasco².³; Roberto Fernandez¹; Sergio Lage¹; Beatriz Abad¹; Maria Angeles Rodriguez¹; Aintzane Asumendi¹.³; Jesus Gardeazabal².³; Juan Antonio Raton².³; Begoña Ochoa¹; Maria Dolores Boyano¹.³; Jose A. Fernandez⁴; ¹Universidad del Pais Vasco, Leioa, Spain; ²Cruces University Hospital, Barakaldo, Spain; ³Biocruces Research Institute, Barakaldo, Spain; ⁴Universidad del Pais Vasco, leioa, Spain
- MP 281 Differentiating Macrophages in Atherosclerotic Plaques using Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging; Pegah Khamehgir-Silz¹; Florian Schnitter²; Su Hwan Kim²; Andreas H. Wagner²; Stefanie Gerbig¹; Sabine Schulz¹; Markus Hecker²; Bernhard Spengler¹; 'Justus Liebig University Giessen, Giessen, Germany; 2University of Heidelberg, Heidelberg, Germany
- MP 282 Imaging of Lipid Distribution in a Metastatic Breast Cancer Mouse Model; Shelley N Jackson¹; Ludovic Muller¹; Aurélie Roux¹; Marise Heerma van Voss²; Venu Raman²; Amina S. Woods¹; *INIDA-IRP, NIH, Baltimore, MD; *2Johns Hopkins University School of Medicine, Baltimore, MD
- MP 283 High-Spatial Resolution Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging of Mouse Pancreatic Islets; Ruichuan Yin¹; Lori Sussel²; Jennifer Kyle¹; Kristin Burnum-Johnson¹; Charles Ansong¹; Julia Laskin¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Barbara Davis Center for Diabetes, University of Colorado, Aurora, CO
- MP 284 Imaging Regiospecific Lipid Turnover in Mouse Brain with Desorption Electrospray Ionization Mass Spectrometry; Richard H Carson¹; Charlotte Lewis¹; Mercede N Erickson¹; Paul B Farnsworth¹; John Price¹;

 ¹Brigham Young University, Provo, UT
- MP 285

 Alcohol Consumption during Gestation Period Alters
 Phosphatidylcholine and Phosphatidylethanolamine
 Distribution in Developing Fetal Brain; Aafreen Kaur
 Bagga¹; Paige Whyte-Fagundes¹; Georg R. Zoidl¹; Demian
 R. Ifa¹; ¹York University, Toronto, ON, Canada
- MP 286 A Multi-Center Study Using Desorption Electrospray Ionization Mass Spectrometry Imaging as A Robust Tool for Breast Cancer Diagnosis; Jialing Zhang¹; Andréia M Porcari²; Raquel R Peres²; Kyana Garza¹; Jonathan Young¹; John Lin¹; Rob Tibshirani³; Geisilene R Paiva²; Wendong Yu⁴; Chandandeep Nagi⁴; Stacey Carter⁴; Luís Z Sarian²; Marcos N. Eberlin²; Livia S. Eberlin¹; ¹The University of Texas, Austin, TX; ²State University of Campinas, Campinas, Brazil; ³Stanford University, Stanford, CA; ¹Baylor College of Medicine, Houston, TX
- MP 287 Nano-DESI Imaging for Detection of oxidative stress response associated to the Neurotoxicant Paraquat Exposure in Parkinson's Like Disease Animal Model;



- Son N. Nguyen¹; Ryan Sontag¹; Jordan Smith¹; Charles Timchalk¹; Julia Laskin¹; ¹Pacific Northwest National Laboratory, Richland, WA
- MP 288 Tissue Mass Spectrometry Imaging Enabled Mapping of Sandhoff Biomarkers in Mouse Brain; Walter
 Korfmacher¹; Cristina Silvescu¹; Hanlan Liu¹; John
 Marshall²; Jennifer Nietupski²; Dinesh Bangari²; Susan
 Ryan²; Petra Oliva²; Thomas O'Shea¹; ¹Sanofi, Waltham,
 MA; ²Sanofi, Framingham, MA
- MP 289 Mass Spectrometry Imaging of Lipids in Niemann-Pick Disease C1; Fernando Tobias¹; Abraham Abraham¹; Stephanie M Cologna¹; ¹University of Illinois at Chicago, Chicago, IL
- MP 290 Molecular Characterization and Diagnosis of Endometriosis to Aid in Surgical Resection using Ambient Ionization Mass Spectrometry; Clara Feider¹; Suzanne Ledet²; Michael T. Breen²; Livia S. Eberlin¹; ¹University of Texas at Austin, Austin, TX; ²Seton Medical Center, Austin, TX
- MP 291 Identification of Biomarkers for Mild Traumatic Brain Injury in Tissue and Biological Fluids using DESI and PaperSpray Ionization with HRAM; Joseph H Kennedy¹; Riyi Shi²; Marcela Cruz-Haces²; Jonathan Tang²; Brian Laughlin¹; Justin wiseman¹; ¹Prosolia, Inc., Indianapolis , IN; ²Purdue University, West Lafayette, IN
- MP 292 MALDI-FTICR Mass Spectrometry Imaging Reveals Dysregulated Metabolites in the Brains of Zika Virus Infected Mice; Lisa H. Cazares^{1, 2}; Darci R. Smith²; Bradley Hollidge²; Xiankun Zeng²; Candace Blancett²; Tara Kenny²; Connie Schmaljohn²; Sina Bavari²; ¹Henry M. Jackson Foundation, Frederick, MD; ²U.S. Army Medical Research Institute of Infectious Disease, Ft. Detrick, MD
- MP 293 Visualization of Aldosterone on Adrenal Frozen Sections of Primary Aldosteronism Patients; Yuki Sugiura¹; Koshiro Nishimoto²; Shuichi Shimma³; Emi Takeo³; Makoto Suematsu¹; ¹Keio University, Tokyo; ²Saitama Medical University International Medical Center, Iruma, Japan; ³Osaka University, Suita, Japan
- MP 294 High Spatial and Mass Resolution MALDI- Imaging Mass Spectrometry of Rat Optic Nerve Glial Scar Tissue; David M. G. Anderson¹; David T. Stark²; Nathan Heath Patterson¹; Jacky M. Kwong²; Kevin L. Schey¹; Joseph Caprioli²; Richard M. Caprioli¹; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Stein Eye Institute, Los Angeles, CA
- MP 295 MALDI-MSI Characterization of the Mesenteric Lymph Nodes during the Development of Pathophysiological Processes: An Acute Radiationinjury Model; Claire Louise Carter¹; Kim Hankey²; Jace W Jones³; Ann M Farese³; Thomas J MacVittie²; Maureen A Kane³;

 ¹University of Maryland, Baltimore, MD; ²University of Maryland School of Medicine, Baltimore, MD; ³University of Maryland School of Pharmacy, Baltimore, MD
- MP 296 Multi-Modal Imaging: Fusing Mass Spectrometry Imaging and Second Harmonic Generation to Understand Molecular Signatures and Collagen Alignment in Pancreatic Cancer; Jillian Johnson¹; Adib Keikhosravi²; Catherine Pearce¹; Matthew Huppert¹; Kevin Eliceiri²; Melissa Skala²; W. John Kao³; Lingjun Li¹. ⁴; ¹School of pharmacy, University of Wisconsin Madison, Madison, WI; ²Department of Biomedical Engineering, University of Wisconsin-Madison, Madison, WI; ³President's Office, The University of Hong Kong, Pokfulam, Hong Kong; ⁴Department of chemistry, University of Wisconsin Madison, Madison, WI
- MP 297 Exploration of Desorption Electrospray Ionization (DESI) and Touch Spray (TS) Mass Spectrometry for Squamous Cell Carcinoma (SCC) Diagnosis and Prognosis; Cedric DHue¹; Michael Moore²; Don-John Summerlin³; Alan Jarmusch⁴; R. Graham Cooks⁵; ¹, West

- Lafayette, IN; ²University of California, Davis, Davis, CA; ³Indiana University-Purdue University Indianapolis, Indianapolis, IN; ⁴University of California, San Diego, San Diego, CA; ⁵Purdue University, West lafayette, IN
- MP 298 **Tissue Microarrays Analysis using DESI-MSI**; Anna K Mróz¹; Luisa Doria¹; James McKenzie¹; Francesca Rosini¹; Hiromi Kudo¹; Zoltan Takats¹; Renata Soares¹; ¹Imperial College London, London, UK
- MP 299 Co-localization of N-glycan and Peptide Tumor Clusters by MALDI-FTICR Mass Spectrometry Imaging of FFPE Tissues; Kim Norris-Caneda'; Alyson Black'; Peggi M Angel'; Richard R Drake'; 'Medical University of South Carolina, Charleston, SC
- MP 300 Mapping the Similarities and Differences in the N-glycomes of Twenty Tumor Types using MALDI-FTICR Mass Spectrometry Imaging; Richard R Drake¹; Kacey Talbot¹; Fred David¹; Kim Norris-Caneda¹; Evelyn Bruner¹; Anand Mehta¹; Peggi M Angel¹; **Medical University of South Carolina, Charleston, SC
- MP 301 N-Glycan Changes in the Human Aortic Valve during Development and Disease by Imaging Mass Spectrometry; Kacey Talbot¹; Aaron Reed¹; H. Scott Baldwin²; David Bichell³; Yan Ru Su²; Richard R Drake¹; Peggi M. Angel¹; ¹Medical University of South Carolina, Charleston, SC; ²Vanderbilt University School of Medicine, Nashville, TN; ³Vanderbilt University Medical Center, Nashville, TN
- MP 302 Imaging Lipid and Protein Changes in Human Diabetic Kidney by MALDI Mass Spectrometry; Michael Tuck¹; Michelle L Reyzer¹; Nathan Heath Patterson¹; Haichun Yang¹; Raymond Harris¹; Agnes B Fogo¹; Richard M. Caprioli¹; ¹Vanderbilt University, Nashville, TN
- MP 303 High Performance Imaging MS and Data-Driven Image Fusion to Characterize Colon Structures and Immune Cell Infiltrates at the Protein Level; Martina Marchetti-Deschmann¹; Boone M. Prentice²; Raf Van de Plas³.⁴; Matthias Holzlechner¹; Rudolf Oehler⁵; Jeffrey M. Spraggins⁴; Richard M. Caprioli⁴; ¹Vienna University of Technology, Vienna, Vienna; ²Mass Spectrometry Research Center, Department of Biochemistry, Vanderbilt University, Nashville, TN; ³Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; ⁴Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ⁵Medical University of Vienna, Vienna, Austria
- MP 304 MALDI Mass Spectrometry Imaging Investigation of Chemico-Spatial Composition of the Parathyroid Gland;
 Qiyao Li¹; Stanislav S Rubakhin¹; Robyn E Ellerbrock¹;
 Brian M Aldridge¹; Adam C Puche²; Iris Lindberg²; Jonathan
 V Sweedler¹; ¹University of Illinois at Urbana Champaign,
 Urbana, IL; ²University of Maryland School of Medicine,
 Baltimore, MD
- MP 305 Discerning the Primary Carcinoma in Different Malignant Peritoneal Effusions by Imaging Mass Spectrometry; Kristina Schwamborn¹; Wilko Weichert¹; Gregor Weirich¹; Richard M. Caprioli²; ¹Technical University Munich, Munich; ²Vanderbilt University, Nashville, TN
- MP 306 Top-down Neuropeptide MALDI Imaging MS on FFPE Sections with High Mass Resolution and MS/ MS Capabilities: Towards True "Mass Spectrometry Histochemistry"; Peter D. Verhaert¹; Shane R. Ellis²; Martin R. L. Paine²; Dan Maloney³; Ron MA Heeren²; ¹Delft University of Technology, DELFT, Europe; ²Maastricht Multi-Modal Molecular Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands; ³Bioinformatics Solutions Inc, Waterloo, ON, Canada
- MP 307 A Combined Approach to Improve Identification of Protein Markers of Sinusoidal Obstruction Syndrome by Mass Spectrometry Imaging; Pierre-Maxence Vaysse¹.

 2; Junfang Zhao²; Celien P. Vreuls³; Benjamin Balluff¹;



- MP 308 Visualizing Molecular Remodeling in a Mouse Model of Preterm Labor via MALDI Imaging Mass Spectrometry;

 Michelle L Reyzer¹; Nathan Heath Patterson¹; Michael Tuck¹; M Lisa Manier¹; Naoko Brown¹; Christine O'Brien¹; Mike F Robuck¹; Jennifer L Herington¹; Jeff Reese¹; Richard M. Capriolii¹; *Vanderbilt University*, Nashville, TN
- MP 309 Bead-Array Mass Spectrometry Imaging for Drug Discovery and Multiplex Diagnostic Biomarker Detection; Gargey B. Yagnik¹; Mark J. Lim¹; Kenneth J. Rothschild¹; 'AmberGen, Inc., Watertown, MA

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- MP 310 Param-Medic Breathes New Life into MS/MS Database Search by Optimizing Parameter Settings; Damon

 May¹; Kaipo Tamura¹; William S Noble¹.²; ¹University of Washington Genome Sciences, Seattle, WA; ²University of Washington Computer Science and Engineering, Seattle, WA
- MP 311 Modeling EThcD Spectrum with Linear Discriminant Function for Peptide Identification; Lei Xin¹; Wen Zhang¹; Baozhen Shan¹; ¹Bioinformatics Solutions Inc, Waterloo, ON. Canada
- MP 312 New Functionality for the Trans-Proteomic Pipeline:
 Tools for the Analysis of Proteomics Data; Luis

 Mendoza¹; David Shteynberg²; Michael R. Hoopmann²;
 Henry Lam³; Jimmy K Eng⁴; Eric W. Deutsch²; Robert
 L. Moritz²; ¹Institute For Systems Biology, Seattle, WA;
 ¹Institute for Systems Biology, Seattle , WA; ³Hong Kong
 University of Science and Technology, Hong Kong, China;
 ⁴University of Washington, Seattle, WA
- MP 313 Protein Identification without Peptide Identification; Jamie Sherman¹; Stephen Tate²; ¹SCIEX, Concord, ON, Canada; ²SCIEX, Concord, ON, Canada
- MP 314 Analysis of Protein-Peptide Bipartite Networks with ProteinClusterQuant for the Accurate Quantification of Proteoforms in Complex Protein Samples; Salvador Martínez-Bartolomé¹; Casimir Bamberguer¹; Miranda Montgomery¹; Sandra Pankow¹; John R. Yates III¹; ¹The Scripps Research Institute, La Jolla, CA
- MP 315 Using Fragmentation Specificity and Coverage to Improve Mass Spectrometry Based Peptide Identification; Zhi Li¹; Xuya Wang¹; Sisi Ma²; Kelly V. Ruggles¹; David Fenyŏ¹; ¹New York University School of Medicine, New York, NY; ²University of Minnesota, St. Paul, MN
- MP 316 An Efficient Filtering Algorithm for Proteoform Identification by Top-Down Tandem Mass Spectra; Runmin Yang^{1, 2}; Daming Zhu¹; Xiaowen Liu^{2, 3}; ¹Department of Computer Science and Technology, Shandong University, Jinan, China; ²Department of BioHealth Informatics, Indiana University-Purdue University Indianapolis, Indianapolis, IN; ³Center for Computational Biology and Bioinformatics, Indiana University School of Medicine, Indianapolis, IN
- MP 317 An Algorithm for the Annotation of PTMs using Isotopic Structure Data; Michał Startek¹; Mateusz Krzysztof Łącki¹; Anna Gambin¹; ¹University of Warsaw, Warsaw, Mazowieckie
- MP 318 Methods for FDR Estimation in High Mass Accuracy Peptide Spectral Library Searches; Zheng Zhang¹; Yuri A. Mirokhin¹; Dmitrii V. Tchekhovskoi¹; Sanford P. Markey¹; Stephen E. Stein¹; ¹NIST, Gaithersburg, MD

- MP 319 The Hybrid Search: New Accurate Mass Spectral Library Search Software for Discovery of Modifications in Proteomics; Meghan Burke¹; Yuri A. Mirokhin¹; Dmitrii V. Tchekhovskoi¹; Sanford P. Markey¹; Jenny Heidbrink Thompson²; Christopher Larkin²; Stephen E. Stein³; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²MedImmune LLC, Gaithersburg, Maryland; ³National Institute of Standards and Technology, Gaithersburg. MD
- MP 320 Confidence Assignment for Mass Spectrometry
 Based Peptide Identifications via the Extreme Value
 Distribution; Gelio Alves¹; Aleksey Ogurtsov¹; Yi-Kuo
 Yu¹; ¹National Center for Biotechnology Information, NLM,
 Bethesda. MD
- MP 321 Controlling False Discovery Rate in Accumulated Public Proteome Dataset; Akiyasu C. Yoshizawa1; Tsuyoshi Tabata²; Yuki Moriya³; Shin Kawano³; Shujiro Okuda⁴; Yu Watanabe4; Tadashi Yamamoto5; Masaki Matsumoto6; Tomoyo Takami⁶; Daiki Kobayashi⁷; Norie Araki⁷; Naoyuki Sugiyama²; Satoshi Tanaka⁸; Susumu Goto³; Yasushi Ishihama²: ¹Bioinformatics Center, Institute for Chemical Research, Kyoto University, Uji, Japan; 2Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan; 3Database Center for Life Science, Joint Support-Center for Data Science Research, Research Organization of Information and Systems, Kashiwa, Japan; ⁴Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan; 5Biofluid Biomarker Center, Institute for Research Collaboration and Promotion. Niigata University. Niigata, Japan; 6Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan; ⁷Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan; 8Trans-IT, Kaminokawa, Japan
- MP 322 Leveraging Time Series LC-MS/MS Experiments to Explore Unidentified Peptide Sequencing Data; Armin G Geiger^{1, 2}; Richard J Giannone¹; Paul E Abraham¹; Daniel A Jacobson¹; ¹Oak Ridge National Lab, Oak Ridge, TN; ²Bredesen Center for Interdisciplinary Research and Graduate Education, Knoxville, TN
- MP 323 Predicting Acquisition Dependent Peptide
 Fragmentation Rules using a Single Deep Neural
 Network; Siegfried Gessulat^{1, 2}; Mathias Wilhelm¹; Daniel
 P Zolg¹; Tobias K Schmidt¹; Patroklos Samaras¹; Peng Yu¹;
 Judith Schlegl³; Hans-Christian Ehrlich²; Stephan Aiche²;
 Bernhard Kuster^{1, 4, 5}; ¹Chair of Proteomics and Bioanalytics,
 Technical University of Munich, Freising, Germany; ²SAP
 SE, Potsdam, Germany; ³SAP SE, Walldorf, Germany;
 ⁴Center for Integrated Protein Science Munich, Freising,
 Germany; ⁵Bavarian Center for Biomolecular Mass
 Spectrometry, Freising, Germany
- MP 324 Evaluating the Impact of Multiple Search Engines and De-novo Sequencing Algorithms for Obtaining Deeper Proteome Coverage in Complex Environmental Samples; Ramsunder lyer^{1, 2}; Robert L Hettich²; ¹University of Tennessee, Knoxville, TN; ²Oak Ridge National Laboratory, Oak Ridge, TN
- MP 325 Increased Throughput and Accuracy in Host Cell Protein Quantitation using Spectral Library Searches;

 Martha Stapels¹; Michelle Busch¹; John Ray¹; Ian Reah²;

 Steven Anderson²; Ian Morns²; ¹Sanofi, Framingham, MA;

 ²Waters Corporation, Newcastle upon Tyne, UK
- MP 326 Combining Different Search Engines and Data
 Processing Tools for Proteomics Identification and
 Quantitation; Ying Zhang¹; Zhihui Wen¹; Mike Washburn¹;
 Laurence Florens¹; ¹Stowers Institute for Medical Research,
 Kansas City, MO
- MP 327 Mass-MetaSite and WebMetabase: Tools for the Identification and Prediction of Protease Cleavage Sites in Peptide Drugs; Ismael Zamora^{1, 2}; Tatiana Radchenko^{1, 2}; Christopher Kochansky³; Alison Bateman³; Andreas Brink⁴;



MP 328 Systematic Evaluation of Filtering Algorithms for the Identification of Proteoforms with Multiple Alterations using Top-Down Tandem Mass Spectrometry; Qiang Kou¹; Si Wu²; Xiaowen Liu¹.³; ¹Indiana University-Purdue University Indianapolis, Indianapolis, IN; ²University of Oklahoma, Norman, OK; ³Center for Computational Biology and Bioinformatics, Indiana University School of Medicine, Indianapolis, IN

London, UK

- MP 329 Assembling the Community-Scale Discoverable Human Proteome; Mingxun Wang¹; Jian Wang¹; Nuno Bandeira¹-²; ¹UCSD, La Jolla, CA; ²Skaggs School of Pharmacy, University of California San Diego, La Jolla, CA
- MP 330 Pulsar: A Search Engine Integrated into Spectronaut using Dynamic PSM Stratification; Lynn Verbeke¹; Oliver M. Bernhardt¹; Tejas Gandhi¹; Roland Bruderer¹; Lukas Reiter¹; ¹Biognosys, Schlieren, Zurich
- MP 331 Workflow for Simultaneous Biotherapeutic Peptide Mapping and Host Cell Protein Analysis Utilizing Insilico Peptide Monitoring; Heather Anderson¹; Alyssa Spitznogle¹; Christopher A Bolcato¹; Matthew J Powell¹; K. Ilker Sen²; St John skilton²; Eric Carlson²; Matthew D Maust¹; **Protea Biosciences, Morgantown, WV; **Protein Metrics Inc., San Carlos, CA
- MP 332 Identification of Regulatory miRNAs Associated with Ethanol-Induced Microglial Activation Using Integrated Proteomic and Transcriptomic Approaches; Brandi Cook¹; Robert Hill²; Dale Chaput²; Bin Liu³; Stanley M. Stevens²; ¹University of South Florida, Tampa, Florida; ²University of South Florida, Tampa, FL; ³University of Florida, Department of Chemistry, Gainesville, FL
- MP 333 BUPID-XL for Identification of Cross-linked Peptides in LC-MS/MS Data; Christian F. Heckendorf¹; Deborah R. Leon¹; Alex J. McDonald¹; Catherine E. Costello¹; Mark E. McComb¹; *Boston University School of Medicine, Boston, MA
- MP 334 Towards a m/z Unlimited Algorithm for Peptide and Protein Structure Elucidation; Fabien Fontaine^{1, 2}; Ismael Zamora^{1, 3}; Christopher Kochansky⁴; ¹Lead Molecular Design, S.L., Sant Cugat del Valles, Spain; ²Molecular Discovery, London, UK; ³Pompeu Fabra University, Barcelona, Spain; ⁴Merck & Co., West Point, PA
- MP 335 Identifying Co-Eluting Peptides using MS Amanda and Elutator; Viktoria Dorfer¹; Sergey Maltsev²; Stephan Winkler¹; Karl Mechtler².³; ¹University of Applied Sciences Upper Austria, Hagenberg, AUT; ²Research Institute of Molecular Pathology (IMP), Vienna, Austria; ³Institute of Molecular Biotechnology, Vienna, Austria
- MP 336 PeptidePicker Version 2: Selecting Suitable
 Proteotypic Peptides for Targeted Proteomics
 Experiments; Yassene Mohammed^{1, 2}; Pallab Bhowmick¹;
 Christoph H. Borchers^{1, 3, 4}; ** **University* of Victoria Genome
 BC Proteomics Centre, Victoria, BC, Canada; ** **Center
 for Proteomics and Metabolomics, Leiden University,
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 University* of Victoria, Victoria, BC, Canada; **Dept. of
 Oncology, Segal Cancer Centre, Jewish General Hospital,
 McGill University, Montreal, QC, Canada
- MP 337 CONSTANd++: An Efficient Method for Quantitative Proteomics Data Analysis; Joris Van Houtven¹; Evelyne Maes²; Kris Laukens³; Geert Baggerman³.⁴; Jef Hooyberghs⁴; Dirk Valkenborg¹.³; ¹Hasselt University, Diepenbeek, Limburg; ²AgResearch, Christchurch, New Zealand; ³University of Antwerp, Antwerp, Belgium; ⁴VITO, Mol, Belgium

- MP 338 A Novel Machine Learning Approach to Calculate FDR for label Free Quantification; Johannes Doblmann¹; Frederico Dusberger¹; Richard Imre¹; Otto Hudecz²; David M Hollenstein³; Karl Mechtler¹.²; Gerhard Duernberger¹. 2.4; ¹IMP, Vienna, Vienna; ²IMBA Institute of Molecular Biotechnology, Vienna, Austria; ³MFPL-Max F. Perutz Laboratories, Vienna, Austria; ⁴GMI Gregor Mendel Institute for Molecular Plant Biology, Vienna, Austria
- MP 339 Building Peptide Tandem Mass Spectral Libraries of Consensus Spectra; Sergey L. Sheetlin¹; Dmitrii V. Tchekhovskoi¹; Yuri A. Mirokhin¹; Stephen E. Stein¹; ¹National Institute of Standards and Technology, Gaithersburg, MD
- MP 340 DeltaMass: Analysis and Viewer Software for Examining Wide Precursor Window Search Results in Proteomics; Dmitry M. Avtonomov¹; Andy Kong¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- MP 341 Improvements to Protein Prospector's MS-Viewer;

 Peter R Baker¹; Carolyn Chitty²; Robert J Chalkley²; ¹UCSF,

 Rokietnica; ²UCSF, San Francisco, CA

INSTRUMENTATION: NEW DEVELOPMENTS IN IONIZATION AND SAMPLING I 342 - 363

- MP 342 Identification of an Unknown Biocide by Vapor
 Atmospheric Pressure Chemical Ionization (vAPCI) and
 Compact Mass Spectrometry (CMS); Daniel Eikel¹; Simon
 J Prosser¹; ¹Advion Inc., Ithaca, NY
- MP 343 On-paper Sample Handling for Bottom-up Protein Analysis; Oeystein Skjaervoe¹; Trine Grønhaug Halvorsen¹; Léon Reubsaet¹; ¹School of Pharmacy, University of Oslo, Oslo, Norway
- MP 344 Molecular-beam Mass Spectrometric and Numerical Investigation of the Intrusive Flame Sampling Effect on Premixed Low-Pressure Flame Structure; Yasin Karakaya¹; Lei Deng¹; Irenäus Wlokas¹; Martin Höner¹; Tina Kasper¹; ¹University of Duisburg-Essen, Duisburg, Germany
- MP 345 Sample Flow Rate Scan in Mass Spectrometry; Gurpur Rakesh D. Prabhu¹; Pawel L. Urban¹; ¹National Chiao Tung University, Hsinchu, Taiwan
- MP 346 Glove Box Compatible Sampling and Characterization of Reactive Compounds by LIFDI MS; Mathias Linden¹; H. Bernhard Linden¹; ¹Linden CMS, Weyhe, Niedersachsen
- MP 347 Polymer Inclusion Membrane use with Condensed Phase Membrane Introduction Mass Spectrometry (CP-MIMS): Robust Membranes with Superior Analytical Performance Characteristics; Gregory W. Vandergrift^{1, 2}; Erik T. Krogh^{1, 2}; Christopher G. Gill^{1, 2, 3, 4}; ¹Appl. Env. Res. Labs. (AERL), Nanaimo, BC, Canada; ²Chemistry Department, University of Victoria, Victoria, BC, Canada; ³Chemistry Department, Simon Fraser University, Burnaby, BC, Canada; ⁴University of Washington, Department of Chemistry. Seattle. WA
- MP 348 Analytical Tool for the Study of Collection Efficiency of Explosives from Surfaces; Vladimir Romanov¹; Steven Watt¹; Thomas Hagerty¹; Hartwig Schmidt¹; Stefan Lukow¹; ¹Morpho Detection, Andover, MA
- MP 349 Accessing High Performance Microflow on a Chip-Based Platform; Helena Svobodova¹; Aaron Dewberry¹; Amanda Berg¹; Mike S. Lee²; Gary Valaskovic¹; ¹New Objective, Woburn, MA; ²Milestone Development Services, Inc., Newtown, PA
- MP 350 Open-Port Probe Sampling Interface for the Direct Coupling of Solid-Phase Microextraction to Atmospheric Pressure Ionization Mass Spectrometry; Chang Liu¹; Germán Gómez-Ríos²; Marcos Tascon²; Bradley B Schneider¹; Nathaly Reyes-Garcés²; Don W Arnold³; Thomas R. Covey¹; Janusz Pawliszyn²; ¹SCIEX, Concord, ON, Canada; ²University of Waterloo, Waterloo, Ontario; ³SCIEX, Redwood City, CA



- MP 351 Front-end Developments for Trace Analyte Collection,
 Desorption, and Ionization of Vapor and Particulate
 Species; Thomas P. Forbes¹; Matthew Staymates¹; Edward
 Sisco¹; ¹National Institute of Standards and Technology,
 Gaithersburg, MD
- MP 352 High-Throughput Mass Spectrometry: Direct Acoustic Ionization for Sub-Second Sample Processing in Biochemical Screens; Lucien Ghislain¹; Martin Bachman²; Ian Sinclair²; Jonathan Wingfield³; Daniel Addison²; Eric Hall¹; Rick Stearns¹; Lars Majlof¹; Richard Ellson¹; Gareth Rhys Jones⁴; Emmy Hoyes⁴; Steven Derek Pringle⁴; Sammy Datwani¹; ¹Labcyte Inc, Sunnyvale, CA; ²AstraZeneca R&D, Alderley Park, UK; ³Astrazeneca, Cambridge, UK; ⁴Waters Corporation, Wilmslow, UK
- MP 353 The T-probe: A Novel Device for Rapid MS Analysis of Non-Adherent Live Single Cells; Yanlin Zhu¹; Renmeng Liu¹; Zhibo Yang¹; ¹The University of Oklahoma, Norman, OK
- MP 354 High-throughput (sub-2.5 second) Direct Injection using a Modified RapidFire 365 HTMS System; Peter Rye¹; Arrin Katz²; William LaMarr²; Can Ozbal²; ¹Agilent, Lexington, MA; ²Pure Honey Technologies. Billerica. MA
- MP 355 Development of a Mass Spectrometry Cartridge for Plasma Protein Analysis with integrated Antibody Column and Spray Substrate; Chengsen Zhang¹; Nicholas E. Manicke¹; ¹Indiana University-Purdue University Indianapolis, Indianapolis, IN
- MP 356 Polymer-Coated Capillary Sampler for Direct Mass Spectrometry Quantitation of Fatty Acids in Biofluids; Wenpeng Zhang¹.²; Spencer Chiang¹; Yu Xia²; Zheng Ouyang¹.².³; ¹Weldon School of Biomedical Engineering, Purdue University, West Lafayette, Indiana; ²Department of Chemistry, Purdue University, West Lafayette, IN; ³Tsinghua University, Beijing, Beijing
- MP 357 Robotic Surface Analysis Mass Spectrometry (RoSA-MS); Anyin Li¹; Martin R. L. Paine¹; Rachel V Stryffeler¹; Jason Wu¹; Stephen Zambrzycki¹; Jake Huckaby²; Chu-yin Change²; Manoj Kumar²; Piyoosh Mukhija²; Alexander S Lambert¹; Ruffin J White¹; Henrik I Christensen¹; Facundo M Fernandez¹; ¹Georgia Institute of Technology, Atlanta, GA; ²Energid, Cambidge, MA
- MP 358 Droplet Based Sampling of RNA Hydrolysates by Induction Based Fluidics; Robert Ross¹; Manasses Jora¹; Andrew D. Sauter III²; Drew Sauter²; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH; ²Nanoliter, LLC, Henderson . NV
- MP 359 Atomic Force Microscope Mediated Thermal Microsampling with Atmospheric Pressure Temperature Ramped Thermal Desorption/Ionization Mass Spectrometry Analysis; William D. Hoffmann¹; Vilmos Kertesz¹; Gary J. Van Berkel¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- MP 360 Ambient Submicron Sampling of Biological Samples by Combining AFM with MS; Jonathan Brauer; Anasys Instruments, Santa Barbara, CA
- MP 361 Programmable Stage for Fluorescence-Guided Atmospheric Pressure Mass Spectrometry Imaging of Frozen Tissue Sections by Laser Ablation Electrospray Ionization; Rikkita Khattar¹; Sylwia A Stopka¹; Beverly J Agtuca²; Christopher R Anderton³; David W. Koppenaal³; Ljiljana Pasa-Tolic³; Gary Stacey²; Akos Vertes¹; ¹George Washington University, Washington, DC; ²University of Missouri, Columbia, MO; ³Pacific Northwest National Laboratory, Richland, WA
- MP 362 Liquid Chromatography-Plasma Assisted Reaction Chemical Ionization Mass Spectrometry for the Analysis of Chlorinated Compounds; Joseph Lesniewski¹; Kunyu Zheng¹; William McMahon¹; Hamid Badiei²; Heng Keang Lim³; Kaveh Jorabchi¹; ¹Georgetown Univ., Washington, DC; ²PerkinElmer Inc, Shelton, CT; ³Janssen Research&Development, Spring House, PA

MP 363 Application of an Acoustic Interface for Ultra-High-Throughput Mass Spectrometry in Drug Discovery; ian Sinclair¹; Martin Bachman²; Jonathan Wingfield³; mattias rohman⁴; Lucien Ghislain⁵; Eric Hall⁵; Gareth Rhys Jones⁶; Michael Morris⁶; Richard Ellson⁵; Rick Stearns⁵; ¹AstraZeneca, macclesfield, Cheshire; ²AstraZeneca R&D, Alderley Park, UK; ³Astrazeneca, Cambridge, UK; ⁴Astrazeneca, Mölndal, Mölndal; ⁵Labcyte Inc, Sunnyvale, CA; ⁶Waters Corporation, Wilmslow, UK

ION MOBILITY: APPLICATIONS I

- MP 364 Variable-velocity Traveling-wave Ion Mobility Separation Enhances Peak Capacity for Data-independent Acquisition Proteomics; Sarah E. Haynes¹; Daniel A. Polasky¹; Sugyan M. Dixit¹; Jaimeen D. Majmudar¹; Brandon T. Ruotolo¹; Brent R. Martin¹; ¹University of Michigan, Ann Arbor, MI
- MP 365 Impact of Ion Focusing Parameters on Transmission and Fragmentation of Coordination Driven Self-Assembly Product Ions; Christopher S. Mallis¹; Manik L. Saha²; Peter J. Stang²; David H. Russell¹; ¹Texas A&M University, College Station, TX; ²University of Utah, Salt Lake City, UT
- MP 366 Simulation of a Novel Annular Geometry Ion Mobility Trap and Separation Device with High Space Charge Capacity; <u>David Langridge</u>¹; Martin Green¹; Kevin Giles¹; **Waters Corporation, Wilmslow, UK
- MP 367 Measuring Precise Collision Cross Section Values from Liquid Chromatography Ion Mobility Tandem Mass Spectrometry Experiments; Charles M. Nichols¹; Sarah M. Stow²; Jaqueline A. Picache¹; Jody C. May¹; Stacy D. Sherrod¹; John Fjeldsted²; John A. McLean¹; ¹Vanderbilt University, Nashville, TN; ²Agilent Technologies, Santa Clara, CA
- MP 368 Ion Separation in Air Using a 3D Printed Ion Mobility Spectrometer; Adam Hollerbach¹; Zane Baird²; Graham Cooks¹; ¹Purdue University, West Lafayette, IN; ²Present address: Indiana Biosciences Research Institute, Indianapolis, IN
- MP 369 Ion Mobility Support in a Novel Compound-Centric Database and Accurate Mass Spectral Library; Emma E Rennie¹; Kristina L Milkovich¹; Norton Kitagawa¹; Mahsan Miladi¹; Crystal K Cody¹; Stephen Madden¹; Nagapadmini Pavuluri¹; John C Fjeldsted¹; ¹Agilent Technologies Inc., Santa Clara, CA
- MP 370 Quadrupole Wide Band Isolation Directed by Ion Mobility Drift Separation in Metabolomics Experiments;

 Teresa Mairinger¹; Ruwan Kurulugama²; Tim Causon¹;

 George Stafford³; John Fjeldsted³; Stephan Hann¹;

 ¹University of Natural Resources and Life Sciences BOKU,

 Vienna, Austria; ²Agilent Technologies Inc., Santa Clara,

 CA; ³Agilent Technologies, Inc., Santa Clara, CA
- MP 371 Synchronizing Ion Mobility with Quadrupole Mass Filtering for Highly Efficient Background Removal during Acquisition for Metabolite Identification; Jayne Kirk¹; Darren Hewitt¹; Martin Palmer¹; Jason wildgoose¹; Mark Wrona²; ¹Waters Corp., Wilmslow, UK; ²Waters Corp, Milford MA
- MP 372 The Use of SelexION to Increase Sensitivity for Trace Level Analysis of Small Molecules; Christopher Borton¹; Paul C. Winkler¹; Jay Jones²; ¹SCIEX, Framingham, MA; ²BASF, Research Triangle Park, NC
- MP 373 Building a Collision Cross Section Library of Pharmaceutical Drugs using an IMS QTof Platform;

 Yun Alelyunas¹; Kerri Smith²; Russell Mortishire-Smith²; Mark D. Wrona²; Nigel Ewing²; ¹, Milford, MA; ²Waters Corp, Milford, MA



MP 375 Influence of Ionization Source Conditions on Protomer, or Deprotomer Ratios of Multifunctional Gaseous Ions Demonstrated by Ion Mobility Mass Spectrometry;

Athula B. Attygalle; Stevens Institute of Technology, Hoboken, NJ

MP 376 High-throughput, Charge-multiplexed Collision-induced Unfolding Measurements for Rapid Biotherapeutic Analysis; Joseph D Eschweiler¹; Ruwan Kurulugama²; John Fjeldsted²; Brandon T Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Agilent Technologies, Santa Clara, CA

MP 377 Characterization of the Interaction Between microRNA
122 and Hepatitus C Viral RNA; Cesar Masitas¹; Jonathan
Trinidad¹; *Indiana University Bloomington, Bloomington, IN

MP 378 Separation of Isobaric Phospholipids and Fatty Acids Derived from Murine Adipose Tissue using Ion Mobility Coupled with High-Resolution Mass Spectrometry;

Christine Hinz¹; Sonia Liggi¹; Julia Denes¹; Antonio Murgia¹.
²; Zoe Hall¹; Ke-di Liu¹; John Fjeldsted³; Julian L. Griffin¹;
¹University of Cambridge, Cambridge, UK; ²Università degli Studi di Cagliari, Cagliari, Italy; ³Agilent Technologies, Santa Clara, CA

MP 379 Extractive Electrospray Ionization Coupled to Atmospheric Pressure DTIMS-MS for Real-Time Analysis of Aerosols; Paul S. Soma¹; Kenneth D. Swanson¹; Gary L. Glish¹; ¹University of North Carolina at Chapel Hill, Chapel Hill, NC

MP 380 Non-Enzymatic Stepwise Degradation of Substance P
Measured by Hybrid IMS-MS; Christopher R. P. Conant¹;
Daniel R Fuller¹; Alison E Holliday²; David H Russell³; David E Clemmer¹; ¹Indiana University Bloomington, Bloomington, IN; ²Moravian College, Bethlehem, Pennsylvania; ³Texas A&M University, College Station, TX

MP 381 Evidence for a Globule to Helix Gas-Phase Transition in an α-Synuclein Peptide Segment; Goran Tumbic¹; Michael Przybylski²; David E Clemmer¹; ¹Indiana University Bloomington, Bloomington, IN; ²Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim am Main, Germany

MP 382 Examining the Structural Influence of Site Specific Phosphorylation by Ion Mobility-Mass Spectrometry;

Rebecca S. Glaskin¹; Caroline S. Chu²; ¹Agilent

Technologies, Inc., Wilmington, DE; ²Agilent Technologies, Inc., Santa Clara, CA

MP 383 Large Scale Collision Cross Section (CCS) Profiling of Endogenous Neuropeptides by Ion Mobility Mass Spectrometry; Zichuan Tian¹; Zhengwei Chen²; Matthew Glover³; Qinjingwen Cao⁴; Lingjun Li⁴.⁵; ¹, Madison, WI; ²Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ³School of Pharmacy, University of Wisconsin-Madison, Madison, WI; ⁴Department of chemistry, University of Wisconsin Madison, Madison, WI; ⁵School of pharmacy, University of Wisconsin Madison, Madison, WI

MP 384 Simultaneous Tracking of Individual Protein Stabilities in a Mixture by Ion Mobility Spectrometry-Mass Spectrometry; Kyle Buckley¹; Tarick El-Baba¹; Daniel W Woodall¹; David E Clemmer¹; *Indiana University Bloomington, Bloomington, IN

MP 385 Assessment of Dimeric Metal-Glycan Adducts via Isotopic Labeling and Ion Mobility-Mass Spectrometry; Kelsey A. Morrison¹; Brad K. Bendiak²; Brian Clowers¹;

¹Washington State University, Pullman, WA; ²University of Colorado Health Sciences Center, Aurora, CO

MP 386 Visualizing and Conceptualizing Highly-Dimensional Metabolomics Data from LC-IM-MS/MS Analysis;

Jaqueline A. Picache¹; Charles M. Nichols¹; John C.

Fjeldsted²; Stacy D. Sherrod¹; Jody C. May¹; John A.

McLean¹; ¹Vanderbilt University, Nashville, TN; ²Agilent Technologies Inc., Santa Clara, CA

MP 387 **Probing Supramolecular Assembly Processes by Ion Mobility Mass Spectrometry**; Kevin J Endres¹; George R
Newkome¹; Chrys Wesdemiotis¹; The University of Akron,
Akron. OH

MP 388 Structural Database of Secondary Metabolites:
Conformational Mapping using Ion Mobility-Mass
Spectrometry as a Tool for Natural Product Discovery;
Andrzej Balinski¹; John A. McLean²; Jody C. May²; Brian
O. Bachmann²; Sarah M. Stow³; ¹Vanderbilt University,
Nashville, TN; ²Vanderbilt University, Nashville, TN; ³Agilent
Technologies Inc., Santa Clara, CA

MP 389 Differential Analysis of 4-dimensional LC-IMS-MS Data in the Analysis of Complex Samples; Niels Goedecke¹; Peter Sander¹; Sven Meyer¹; Klaus Meyer¹; *Bruker Daltonik GmbH, Bremen, Germany

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MP 390 SCX Contamination: A New Class of Pan-Assay Interference Compounds (PAINS)?; Kenneth Roth¹; Phillip Sanders¹; Brandon Margolis¹; ¹Eli Lilly & Co., Indianapolis, IN

MP 391 Analysis of Commercially Available Beta-Glucuronidase Enzymes and Optimum Hydrolysis Conditions in Urine for Licit and Illicit Drugs using In-Well Hydrolysis; Jillian Neifeld¹; Dan Menasco¹; Stephanie J Marin¹; Bruce Kempf¹; Helen Lodder²; Alan Edgington²; Adam Senior²; Paul Roberts²; Lee Williams²; Elena Gairloch¹; Claire Desbrow²; Steve Jordan²; ¹Biotage, Charlotte, NC; ²Biotage GB Limited, Cardiff

MP 392 Fractionation of Whole Gut Lavage Fluid by Affinity Immunoglobulin Alpha Depletion for Increased Proteomic Coverage; Joseph Otto¹; Jana M Rocker¹·²; Lewis K. Pannell¹; ¹Mitchell Cancer Inst, Mobile, AL; ²Mississippi Gulf Coast Community College, Gulfport, MS

MP 393 Evaluation of Recombinant, Chemically Treated Trypsin in Proteomics and Protein Characterization Assays;

Nicolas Caffarellii¹; Judy Boland¹; Jeff Turner¹; Gordon
Nicol¹; Amber Henry¹; Kevin Ray¹; ¹MilliporeSigma, St.
Louis. MO

MP 394 Factors Effecting the Quality of FASP-prepared Proteomics Samples; Shekufeh Zareian¹; Michael J Sweredoski¹; Sonja Hess¹; Annie Moradian¹; ¹Caltech, Pasadena, CA

MP 395 Analysis of Per/Polyfluoroalkyl Substances (PFASs) in Biological Fluid using a Novel Lipid Removing Sorbent and LC/MSMS; joan stevens¹; Xiaomi Xu¹; Tarun Anumol¹; Limian Zhao¹; ¹Agilent Technologies, Inc., Wilmington, DE

MP 396 Automated Peptide Desalting using Dispersive Pipette Extraction Tips for Increased Protein Identifications;
Sunil Hwang¹; Todd Mullis¹; Michael Mouridian²; Andrew Lee¹; ¹IMCS, Columbia, South Carolina; ²Hamilton Robotics, Reno, NV

MP 397 LC-MS/MS Method for the Determination of25hydroxyvitamin D2/D3from Serum Sample using CleanertSLE; Suzi Qin¹; Qun Wang¹; Wan Wang¹; Warren Chen¹; ¹Bonna Agela Technologies, Tianjin, China



MP 400 Operational Impact on the Correlation of Bioanalytical Results Generated by Dried Blood Spot and Whole Blood Lysate Sampling; Shenita Basdeo¹; Qin Ji²; ¹, Lawrenceville, NJ; ²BMS, Princeton, NJ

of Public Health, National Taiwan University, Taipei City,

- MP 401 A Recombinant Asp-Specific Protease for Bottomup Mass Spectrometry Workflows; Chris Hosfield¹; James Hartnett¹; Alba Katiria González Rivera^{1, 2}; Ethan Strauss¹; Sergei Saveliev¹; Michael Rosenblatt¹; Marjeta Urh¹; ¹Promega Corporation, Madison, WI; ²University of Wisconsin Madison, Madison, WI
- MP 402 A Novel Strategy for the In-Process Stabilization of N-Oxide Metabolites in Hemolyzed Plasma Determined by LC-MS/MS; Richard Lavallee¹; Georges Koudssi¹; Milton Furtado¹; Anahita Keyhani¹; ¹Altasciences, Laval, QC, Canada
- MP 403 Comparison of Commonly used Anti-adsorptive Agents to Identify an Optimal Strategy to Minimize Non-specific Binding in CSF Collection; Adam Amaral¹; Stanley I. Goldstein¹; Michael T Rooney¹; ¹Biogen, Cambridge, MA
- MP 404 Analysis of Free and Encapsulated Doxorubicin by LC-MS/MS; Roger Demers¹; Ying Ren²; Daria L Wentzel²;

 1 Tandem Labs, West Trenton, NJ; 2 Covance, West Trenton, NJ
- MP 405 Polymeric vs Diatomaceous Earth SLE Sorbents: A Comparison of Phospholipid Depletion, Matrix Effect and Recovery for Cortisol and 6β-Hydroxycortisol; Laurence Mayrand Provencher¹; Sylvain Latour¹; Jeff Plomley¹; Milton Furtado¹; Anahita Keyhani¹; ¹Altasciences, Laval , QC, Canada

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- MP 406 Phospholipid Characterization by a TQ-MS Dada Based Identification Scheme; Tsuyoshi Nakanishi¹; Masaki Yamada¹; Ningombam Sanjib Meitei².³; ¹Shimadzu Corporation, Kyoto, Japan; ²PREMIER Biosoft, Palo Alto, CA; ³PREMIER Biosoft, Indore, India
- MP 407 Using MALDI-Mass Spectrometry Imaging to Assess the Oxidative Damage to Lipids Induced by *in vivo* Hydroxyl Radical-Based Protein Footprinting; <u>Jessica A. Espino</u>¹; Claire L. Carter¹; Maureen A. Kane¹; Lisa M. Jones¹; 'University of Maryland School of Pharmacy, Baltimore, MD
- MP 408 Characterization of Cardiolipin and Monolysocardiolipin Acyl-Lipid Species in an Acute Myeloid Leukemia Cell Line; Juan J Aristizabal Henao¹; Ayesh K Seneviratne²; Richard W Smith¹; Aaron D Schimmer²; Ken D Stark¹; ¹University of Waterloo, Waterloo, Ontario; ²Princess Margaret Cancer Centre, Toronto, ON, Canada
- MP 409 Comparative Analysis of Plasma Lipid Alterations
 Associated with Age and Dietary Restriction using
 Targeted MS and Untargeted LC-MS Lipidomics
 Approaches; Kevin Contrepois¹; Salah Mahmoudi¹; Anne
 Brunet¹; Michael Snyder¹; Stanford University, Stanford, CA
- MP 410 Comparative Lipidomic Profiling of Four Shellfishes by UPLC-HRMS; Jie Xu^{1,2}; Yu Song³; Peixu Cong³; Changhu Xue³; ¹Ocean University of China, Qingdao, China; ²currently as a visiting professor at the School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA;

- ³College of Food Science and Engineering, Ocean University of China, Qingdao, China
- MP 411 An Integrated Strategy for Gangioside
 Lipidomics utilizing HRMS and Skyline Software; Asoka
 Ranasinghe¹; Eugene Ciccimaro²; Celia D'Arienzo²; Serhiy
 Hnatyshyn³; Timothy Olah Timothy Olah²; ¹Bristol-Myers
 Squibb Company, Princeton, NJ; ²Bristol-Myers Squibb,
 Princeton, New Jersey; ³Bristol-Myers Squibb, Princeton, NJ
- MP 412 LC-MSE-driven Discovery of Biomarkers for Identifying Heightened Risk of Developing Atherosclerotic Disease; Zifeng Song¹; Gerd Bobe^{1, 2}; Sahar Taqui³; Jan F. Stevens^{1, 2}; Johathan Lindner³; Claudia S. Maier^{1, 2}; ¹Oregon State University, Corvallis, OR; ²Linus Pauling Institute, Oregon State University, Corvallis, OR; ³Oregon Health & Science University, Portland, OR
- MP 413 Analyses of Lipid Hydroperoxides in HDL and LDL of Human using Orbitrap Mass Spectrometer; Shu-Ping
 Hui¹; Hitoshi Chiba¹; ¹Faculty of Health Sciences, Hokkaido University, Sapporo, Japan
- MP 414 Lipidomic Studies of Beta-2-Adrenergic Receptor
 Agonist-induced Hepatic Steatosis in Mice; Xiaoli Gao¹;
 Yun Shi¹; Dana M. Molleur¹; Susan T. Weintraub¹; Amrita
 Kamat¹; ¹UT Health San Antonio, San Antonio, TX
- MP 415 Differential Ion Mobility Coupled to a Multi-emitter Nanoelectrospray Ion Source for Improved Shotgun Lipidomics Applications; James E. Keating¹; Gary L. Glish¹; ¹University of North Carolina at Chapel Hill, Department of Chemistry, Chapel Hill, NC
- MP 416 Pilot Study of the Plasma Lipid Profile in Ebola Vaccinated Healthy Donors using Untargeted Lipidomics Approach; Manoj Khadka; Emory University School of Medicine, Atlanta, GA
- MP 417 Mass Spectrometry-Based Characterization of Milk Lipids Isolated from Murrah Buffalo; Kiran Ambatipudi¹; Aparna Verma¹; Sivaramaiah Nallapeta²; ¹Indian Institute of Technology Roorkee, Roorkee, UK; ²Bruker Daltonics India, Centre of Excellence, Bangalore, India
- MP 418 Automated Lipid Profiling of Malaria Samples Using Orbitrap Velos Pro Mass Spectrometer with LipidSearch and SimLipid Software; Ningombam Sanjib Meitei^{1, 2}; Arun Apte³; Fatima Rahlouni⁴; David J. Sullivan⁵; Vladimir Shulaev⁴; ¹PREMIER Biosoft, Palo Alto, CA; ²PREMIER Biosoft, Indore, India; ³PREMIER Biosoft, Indore, India; ⁴University of North Texas, Denton, TX; ⁵Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD
- MP 419 Investigating Current Limitations and Pitfalls in Lipidomics using the SRM 2378 series and Bovine Liver: A NIST Interlaboratory Study; Candice Z. Ulmer¹; John A. Bowden¹; Christina Jones¹; Alan Heckert²; Jeremy Koelmel³; ¹National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC; ²National Institute of Standards & Technology, NIST, Gaithersburg, MD; ³University of Florida, Department of Chemistry, Gainesville, FL
- MP 420 Lipid Metabolic Alterations Hallmark Pathological Processes in Human Lungs; Lars F. Eggers¹; Julia Müller²; Chakravarthy Marella¹; Verena Scholz¹; Henrik Watz³.⁴; Christian Kugler⁵; Klaus F. Rabe⁴.⁵; Torsten Goldmann².⁴; Dominik Schwudke¹.⁴; ¹Research Center Borstel, Division of Bioanalytical Chemistry, Borstel, Germany; ²Pathology of the University Hospital of Lübeck and the Research Center Borstel, Lübeck and Borstel, Germany; ³Pulmonary Research Institute at LungenClinic Großhansdorf, Großhansdorf, Germany; ⁴Airway Research Center North, German Center for Lung Research, Großhansdorf, Germany; ⁵LungenClinic Großhansdorf, Großhansdorf, Großhansdorf, Germany; ⁵LungenClinic Großhansdorf, Großhansdo
- MP 421 Sample-per-second Shotgun Lipidomics using Acoustically-induced Electrospray Ionisation; Martin Bachman¹; Ian Sinclair¹; Jonathan Wingfield²; Kerry



- Hallbrook¹; Sonia Houghton¹; ¹AstraZeneca R&D, Alderley Park, UK; ²AstraZeneca R&D, Cambridge, UK
- MP 422 MRM Based Phospholipid Profiling of Mouse Tissues by an Ultra-Fast Triple Quadrupole Mass Spectrometer;

 Masaki Yamada¹; Tsuyoshi Nakanishi²; ¹Shimadzu

 Corporation, Kyoto; ²Shimadzu Corporation, Nakagyo-ku,

 Japan
- MP 423 Robust and High Throughput Lipid Profiling in Dried Blood Spot Samples Using Automated FIA MSMSAII Technique; Kuldeep Ravivanshi¹; Narinder Sahni²; Akanksha Singh³; Dipanakar Malakar³; Manoj Pillai³; ¹Lipomic Healthcare Pvt. Ltd, New Delhi, India; ²Jawaharlal Nehru University, New Delhi, India; ³SCIEX, Gurugram, India
- MP 424 Phospholipid Ratios in Drosophila and the Effects on the Reintroduction of SWS/NTE Mutations Back into Neurons using UPLC-HRMS/MS and SWATH; Jeffrey Morre¹; Claudia S. Maier²; Brookelyn Long²; Elizabeth Sunderhaus³; Doris Kretzschmar³; ¹Oregon State University, Corvallis, OR; ²Oregon State University, Corvallis, OR; ³Oregon Health & Science University, Portland, OR
- MP 425 Increase Sensitivity and Selectivity for Quantification of Phospholipids Based on Phosphate Methylation and MRM-based LC-MS/MS in Only Positive Ionization Mode; Lili Niu¹; Tanxi Cai¹; Qingbo Shu¹; Xiaojing Guo¹; Xiang Ding¹; Zhensheng Xie¹; Fuquan Yang¹; ¹Institute of Biophysics, CAS, Beijing, China
- MP 426 Development of a Rapid Method for Quantification of Branched Chain Fatty Acids in Phospholipids using Ion-Mobility Q-TOF Mass Spectrometry; Peter S.

 Backlund¹; Glen W. Humphrey²; Paul S. Blank²; Alfred L. Yergey¹; Joshua Zimmerberg²; ¹NICHD, NIH, Bethesda, MD; ²Section on Membrane & Cellular Biophysics, NICHD, NIH, Bethesda, MD
- MP 427 Lipidomic Investigation of Fenclozic Acid and Sitaxentan Treated PXB-mice using a New Scanning Quadrupole UPLC-QTof MS Acquisition Mode; Adam King¹; Matthew Baginski²; Yoshio Morikawa²; Robert S Plumb¹; Ian D Wilson¹; ¹Imperial College, London, UK; ²PhoenixBio USA Corp., New York, NY
- MP 428 Untargeted RP-UPLC-QTOF- MS/MS based Shotgun Lipidomics Reveals Lipid Dynamics during High Carbohydrate or High Polyunsaturated Fatty Acid Diet; Thekkelnaycke Rajendiran¹; Tanu Soni²; Heidi Brigitte IglayReger²; Amy E Rothberg²; Charles F Burant²; ¹Dept. of Pathology, University Of Michigan, Ann Arbor, MI; ²University of Michigan Medical Center, Ann Arbor, MI
- MP 429 Systems Biology Approach to Define the Molecular Mechanisms of Galactic Cosmic Ray induced Hepatocellular Carcinoma; Brooke L. Barnette¹; Shinji K. Strain¹; Cheryl F. Lichti¹; Yu Yongjia¹; Robert L. Ullrich¹; Mark R. Emmett²; ¹University of Texas Medical Branch, Galveston, TX; ²University of Texas Medical Branch, Galveston, TX
- MP 430 Analysis of Lipids Extracted from Plant and Insect Tissues using a Chromatography Based HRMS

 Method with Automated Data Processing; Daniel

 Gachotte¹; Yelena Adelfinskaya²; Jeffrey R Gilbert²; Jesse
 L Balcer²; David A Peake³; Lyudmila LV Sidorenko²; ¹Dow AgroSciences, Indianapolis, IN; ²Dow AgroSciences, Indianapolis, IN; ³ThermoFisher, San Jose, CA
- MP 431 Lipid Profiling of Six Breast Cancer Cell Lines to Understand the Mechanism of Brain Metastatic Breast Cancer; Masoud Zabet Moghaddam¹; Ruchika Bhawal¹; Wenjing Peng¹; Susan San Francisco¹; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX

METABOLOMICS: GENERAL 432 - 463

- MP 432 Infrared Ion Spectroscopy Applied in Metabolomics and Drug Metabolism; Jonathan Martens1; Giel Berden1; Rianne E. van Outersterp¹; Leo A. J. Kluijtmans²; Udo F. Engelke²; Clara D. M. van Karnebeek^{3, 4}; Ron A. Wevers²; Valerie Koppen⁵; Filip Cuyckens⁵; Jos Oomens^{1, 6}; ¹FELIX Laboratory - Radboud University, Nijmegen, Netherlands; ²Translational Metabolic Laboratory - Radboud University Medical Center, Nijmegen, Netherlands; 3Department of Pediatrics - University of British Columbia, Vancouver, BC, Canada, Canada; 4Centre for Molecular Medicine -University of British Columbia, Vancouver, BC, Canada; ⁵Pharmacokinetics, Dynamics & Metabolism - Janssen R&D. Beerse. Belgium; ⁶van't Hoff Institute for Molecular Sciences - University of Amsterdam, Amsterdam, Netherlands
- MP 433 Merging Targeted and Non-Targeted Metabolomics via Anion-Exchange Chromatography Coupled to High Resolution Mass Spectrometry; Michaela Schwaiger¹; Yasin El Abiead¹; Evelyn Rampler¹; Gerrit Hermann¹.²; Gunda Koellensperger¹; ¹University of Vienna, Vienna, Austria; ²ISOtopic Solutions, Vienna, Austria
- MP 434 Redox State Alteration at the Onset of Development in D. melanogaster; Boryana Petrova¹; Maiko Kitaoka²; Elizaveta Freinkman¹; Iva Kronja¹; Terry Orr-Weaver^{1, 2};

 1 Whitehead Institute, Cambridge, MA; 2 Dept. of Biology, Massachusetts Institute of Technology, Cambridge, MA
- MP 435 Smart Data Dependent MS/MS: Toward Comprehensive MS/MS Feature Coverage in Non-Targeted Metabolomics; Corey D Broeckling¹; Emmy Hoyes²; Jeff Brown²; Jessica E. Prenni¹; ¹Colorado State University's Proteomics and Metabolomics Facility, Fort Collins, CO; ²Waters Corporation, Wilmslow, UK
- MP 436 Development of an Efficient Quantitative Assay for All Mevalonate Pathway Metabolites using Targeted LC-MS to Study Ovarian Cancer Metabolism; Hamid R Baniasadi¹; Aaron R. Goldman¹; Hsin-Yao Tang¹; David W Speicher¹; ¹Wistar Institute, Philadelphia, PA
- MP 437 Construction of Novel Calibration-Curve-Locking Database for Metabolomic Analysis by GC/MS; Yuki Soma¹; Toshiyuki Yamashita¹; Kosuke Hata¹; Masatomo Takahashi¹; Kuniyo Sugitate²; Takeshi Serino²; Hiromi Miyagawa³; Kenichi Suzuki³; Takatomo Kawamukai⁴; Teruhisa Shiota⁴; Kayoko Yamada⁴; Yoshihiro Izumi¹; Takeshi Bamba¹; ¹Kyushu University, Fukuoka, Japan; ²Agilent Technologies Co. Ltd, Hachioji, Japan; ³GL Sciences Inc., Shinjuku-ku, Japan; ⁴AMR Inc., Meguro-ku, Japan
- MP 438 Comprehensive Amino Acid and DBS Analysis with a Microchip Capillary Electrophoresis-ESI Miniature Mass Spectrometry Platform in 150 Seconds; Michael Goodwin¹; J. Scott Mellors¹; Erin A. Redman¹; Glenn A. Harris¹; Christopher Brown¹; 1908 Devices Inc., Boston, MA
- MP 439 Challenging the C1 Folate Cycle Paradigm with Probiotic Lactobacillus reuteri; Abby J Chiang¹; Daniel Röth¹; Gabriel Gugiu¹; James Versalovic²; Markus Kalkum¹; ¹City of Hope, Duarte, CA; ²Texas Children's Hospital, Houston. TX
- MP 440 Direct Analysis of Terpenes from Biologically Relevant Buffers using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI);

 Milad Nazari¹; Sean R. Lund¹; Gavin J. Williams¹; Jon D. Williams²; David C. Muddiman¹; ¹North Carolina State University, Raleigh, NC; ²AbbVie, North Chicago, IL
- MP 441 Metabolomics of Biofluids from Nonhuman Primate Exposed to Ionizing Radiation; Evan Pannkuk¹; Evagelia C Laiakis²; Simon Authier³; Karen Wong³; Albert J. Fornace¹. 2; ¹Tumor Biology Program, Lombardi Comprehensive



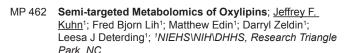
- Cancer Center, Georgetown University, Washington, DC;
 ²Department of Biochemistry and Molecular & Cellular Biology, Georgetown University, Washington, DC;
 ³CiToxLAB North America, Laval, QC, Canada
- MP 442 Integration of Volumetric Absorptive Microsampling with a Mass Spectrometry-Based Metabolomics Workflow; Giuseppe Paglia¹; Chiara Volani¹.²; Giulia Caprioli¹; Baldur Sigurdsson¹; Guenter Weiss²; Sigurdur Smarason¹; ¹EURAC Research, Bolzano, Italy; ²Medical University of Innsbruck., Innsbruck, Austria
- MP 443 **Metabolomics of Cotton Fiber**; <u>Manoj S. Ghaste</u>¹; Vladimir Shulaev¹; ¹Department of Biological Sciences, University of North Texas, Denton, TX
- MP 444 Combining Benzoyl Chloride Derivatization with Accurate Mass Qualitative and Quantitative Analysis to Increase Understanding of Neurological Systems;

 Stefan Thibodeaux¹; Kimberly Malesky¹; Madeline Weber¹;
 Clayton Springer¹; Shu Li¹; ¹Novartis, Cambridge, MA
- MP 445 Analysis of Non-Mevalonate (MEP) Pathway Standards and Metabolites in Cell Lysate Using a Novel LC-MS/MS Method; Allison Fabino Carr¹; Michael Lesslie¹; Darshan C. Patel²; Victor V. Ryzhov¹; Daniel W. Armstrong²; ¹Northern Illinois University, Dekalb, IL; ²University of Texas at Arlington, Arlington, TX
- MP 446 Evaluation of Different Cell Harvesting and Lysis
 Methods for Chemical Isotope Labeling LC-MS
 Metabolomics; Xinyun Gu¹; Xian Luo¹; Liang Li¹; ¹University
 of Alberta, Edmonton, AB, Canada
- MP 447 Metabolic Changes in Lung Tissue of Tuberculosis-Infected Mice using GC/Q-TOF; Ma Fernanda Rey-Stolle1; Vineel P Reddy2; Santiago Angulo1; Adrie JC Steyn2.3.4; Sofia Nieto5; Nathan Eno5; Coral Barbas1; **CEMBIO (Centro de Metabolómica y Bioanálisis), Facultad de Farmacia, Universidad CEU San Pablo, Madrid, Spain; **2Department of Microbiology, University of Alabama at Birmingham, Birmingham, AL; **3KRITH (KwaZulu-Natal Research Institute for TB and HIV), Durban, South Africa; **4UAB Center for Free Radical Biology, University of Alabama at Birmingham, Birmingham, AL; **5Agilent Technologies Inc., Santa Clara, CA
- MP 448 Metabolomic Approach for Carotenoids Analysis of Chrysanthemum Flower by Liquid Chromatograph Tandem Mass Spectrometry; Junichi Masuda¹; Satoshi Yamaki²; Yoshihiro Hayakawa²; Masaru Furuta²; Yuji Sawada³; Mami Okamoto³; Muneo Sato³; Masami Y. Hirai³; ¹Shimadzu Corporation, Hadano-city, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³RIKEN Center for Sustainable Resource Science, Yokohama, Kanagawa
- MP 449 Quantitative and Qualitative Metabolic Flux Analysis via a Novel Data Independent Acquisition Mode 'SONAR' using High Resolution Mass Spectrometry;

 Paul Rainville¹; Chris Beecher²; Jose Castro-Perez³; James Langridge⁴; David Heywood⁴; ¹Waters, Milford, MA; ²IROA Technologies, Gainesville, Florida; ³Waters Corp, Milford, MA; ⁴Waters Corp., Wilmslow, UK
- MP 450 Metabolomic Analysis of Microbiome Transplantation in Mice; <u>Jason Winnike</u>¹; David Kirchner¹; Kevin Knagge¹; Brian Bennett²; ¹David H. Murdock Research Institute, Kannapolis, NC; ²United States Department of Agriculture Agricultural Research Service, Davis, CA
- MP 451 Metabolomic Interrogation of the Mechanisms of Radiation-Induced Lung Injury; Jenna Alloush¹; Jace W. Jones²; Claire Louise Carter²; Isabel L Jackson³; Zeljko Vujaskovic³; Maureen A Kane²; ¹, Baltimore, MD; ²University of Maryland School of Pharmacy, Baltimore, MD; ³University of Maryland School of Medicine, Baltimore, MD
- MP 452 Application of Isotopically Nonstationary Flux Analysis for Nucleotides Metabolism Studies in Human Cells; Fedor Kryuchkov; University of Bergen, Bergen, Norway

- MP 453 Comprehensive Analysis of Hydrophilic Metabolites by Coupling Ion Chromatography and PFPP-based Liquid Chromatography Methods to High Resolution Mass Spectrometry; Yoshihiro Izumi¹; Takahiro Suzuki²; Masatomo Takahashi¹; Kohta Nakatani¹; Kiyotaka Oshikawa¹; Motokazu Kimura²; Takahara Kentaro²; Masaki Matsumoto¹; Takeshi Bamba¹; ¹Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan; ²Thermo Fisher Scientific Japan, Tokyo, Japan
- MP 454 Targeted LC-MS/MS Based Metabolomics Revealing Staphylococcus aureus Metabolic Reprograming, from Planktonic to Biofilm; Chen Wang¹; Jiangjiang Zhu¹;

 ¹Miami University, Oxford, Ohio
- MP 455 Mice Fecal Metabolomics by LC-MS/MS: Comparison between Young Mice and Old Mice; Takanari Hattori¹.²; Shuichi Kawana¹; Yoshihiro Hayakawa¹; Eiichiro Fukusaki³; Mitsuharu Matsumoto⁴; ¹Shimadzu Corporation, Kyoto, Japan; ²Osaka University Shimadzu Analytical Innovation Research Laboratory, Suita, Japan; ³Osaka University, Suita, Japan; ⁴Kyodo Milk Industry Co. Ltd., Nishitama, Japan
- MP 456 Steroid and Tricarboxylic Acid Cycle Isobar Separation and Quantitation using Ion Mobility-QTOF and LC/MS/MS; Sumankalai Ramachandran¹; Minas Sakellakis¹; Zahi Mitri²; Niki Millward³; Sriram Shanmuga Velandy³; Pratip Bhattacharya³; David Piwnica-Worms³; Christopher Logothetis¹; Mark Titus¹; ¹Koch Center, MD Anderson Cancer Center, Houston, TX; ²Oregon Health & Science University, Portland, OR; ³Cancer Systems Imaging, MD Anderson Cancer Center, Houston, TX
- MP 457 High-throughput Analysis of Xenobiotics by Automated Electrochemistry/Mass Spectrometry; Simon Gereon Scheeren¹; Uwe Karst¹; ¹University of Münster, Institute of Inorganic and Analytical Chemistry, Münster
- MP 458 Targeted and Untargeted Mass Spectrometry for Identification of Metabolomic Changes Associated with Chronic Defeat Stress in Mice; Constance A. Sobsey¹; Jun Han¹; Michael J. Meaney^{2, 3, 4}; Christoph H. Borchers^{1, 3, 5}; 'University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Oncology, Segal Cancer Centre, Jewish General Hospital, McGill University, Montreal, QC, Canada; ³Dept. of Oncology, McGill University, Montreal, QC, Canada; ⁴Depts. of Psychiatry and Neurology and Neurosurgery, McGill University, Montreal, QC, Canada; ⁵Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada
- MP 459 **Development of More Reproducible and Sensitive Polar Metabolomics Methods**; <u>Hardik Shah</u>¹; Steven M. Fischer²;
 Justin R. Cross¹; ¹Donald B. and Catherine C. Marron
 Cancer Metabolism Center at Memorial Sloan Kettering
 Cancer Center, New York, NY; ²Agilent Technologies, Santa
 Clara, CA
- MP 460 Same Sample Targeted and Untargeted Fecal Mass Spectrometry for Molecule Microbiome Wide Association Studies; Alexey V. Melnik¹; Ricardo Da Silva¹; Embriette R Hyde²; Fernando Vargas¹; Amina Bouslimani¹; Ivan Protsyuk³; Alan Jarmusch¹; Alexander Aksenov¹; Anupriya Tripathi¹.².⁴; Theodore Alexandrov¹.³. ⁵; Rob Knight².⁴; Pieter C. Dorrestein¹.²; ¹Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, La Jolla, CA; ²Department of Pediatrics, University of California San Diego, La Jolla, CA; ³EMBL, Heidelberg, Heidelberg; ⁴Center for Microbiome Innovation, University of California San Diego, La Jolla, CA; ⁵Department of Computer Science and Engineering, University of California San Diego, La Jolla, CA
- MP 461 Identification of Metabolite Markers of Mn2+
 Accumulation in Deinococcus radiodurans by Liquid
 Chromatography Mass Spectrometry; Jingyueh Jeng;
 Chia Nan Univ of Pharmacy & Science, Tainan, Asia



MP 463 LC-MS Metabolomic Serum Signatures Indicate Changes in Protein and Fatty Acid Metabolism Precede Retained Placenta in Dairy Cows; Fereshteh Zandkarimi¹; Gerd Bobe², ³; Claudia S. Maier¹, ³; ¹Chemistry Department, Oregon State University, Corvallis, OR; ²Department of Animal and Rangeland Sciences, Corvallis, OR; ³Linus Pauling Institute, Oregon State University, Corvallis, OR

METABOLOMICS: SAMPLE PREPARATION 464 - 474

- MP 464 Coupling Solid Phase Microextraction to Complementary Separation Platforms for Metabotyping of E. coli Metabolome in Response to Natural Antibacterial Agents; Fatemeh Mousavi¹; Emanuela Gionfriddo²; Eduardo Carasek³; Erica A Souza-Silva⁴; Janusz Pawliszyn²; ¹Donnelly Centre for Cellular and Biomolecular Research, University of Toronto, Toronto, ON, Canada; ²University of Waterloo, Waterloo, Ontario; ³Department of Chemistry, Federal University of Santa Catarina, Florianópolis, Brazil; ⁴Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
- MP 465 An Approach for Metabolomics Survey of the Extracellular Vesicles in Esophageal Carcinoma Serum;

 Yan Ren¹; Ju Wang¹; Jin Zi¹; Liang Lin¹; Siqi Liu¹; ¹BGl-Shenzhen. Shenzhen. China
- MP 466 Automated Sample Preparation for GC/MS and LC/MS-based Metabolomics: Analysis of Contamination Sources; Emily Davidson¹; Sarah-Marie A Lyons¹; Corey D. Broeckling¹; Jessica E. Prenni¹; **Proteomics and Metabolomics Facility; Colorado State University, Fort Collins, CO
- MP 467 A LC-MS Metabolomics Method Enabling Rapid Sample Preparation and Analysis of Polar and Unstable Metabolic Intermediates; Tony Karlsborn¹; Magesh Muthu¹; Anders Nordström¹; Department of Molecular Biology, Umeå University, Umeå, Sweden
- MP 468 Assessment of Rapid Heat Treatment for Pre-Analytical Stabilization of the Lipidome; Christina M Jones¹; Jeremy P Koelmel²; Tracey B Schock¹; Candice Z. Ulmer¹; John A. Bowden¹; ¹National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC; ²University of Florida, Department of Chemistry, Gainesville, Fl
- MP 469 Method Development for the Metabolomic Profile of Cyanobacteria with Altered Circadian Rhythms; Berkley Ellis¹; R. L. Gant-Branum²; Chi Zao³; Yao Zu³; Carl H Johnson²; John A. McLean²; ¹, Nashville, TN; ²Vanderbilt University, Nashville, TN; ³Vanderbilt University, Nashville, TN
- MP 470 Untargeted Metabolomic and Lipidomic Characterization of Brain Tissue using Solid Phase Microextraction; Ezel Boyaci¹; Nathaly Reyes-Garcés¹; German A Gómez-Ríos¹; Barbara Bojko¹.²; Dajana Vuckovic³; Janusz Pawliszyn¹; ¹University of Waterloo, Waterloo, ON, Canada; ²Nicolaus Copernicus University in Torun, Bydgoszcz, Poland; ³Concordia University, Montreal, QC, Canada
- MP 471 Automation of Sample Preparation Procedure for Hydrophilic Metabolomic and Lipidomic Analysis using a Robotic Platform; Yuki Soma¹; Toshiyuki Yamashita¹; Masatomo Takahashi¹; Kuniyo Sugitate²; Takeshi Serino²; Hiromi Miyagawa³; Kenichi Suzuki³; Takatomo Kawamukai⁴; Teruhisa Shiota⁴; Kayoko Yamada⁴; Yoshihiro Izumi¹; Takeshi Bamba¹; ¹Kyushu University, Fukuoka, Japan; ²Agilent Technologies Co. Ltd, Hachioji, Japan; ³GL Sciences Inc., Shinjuku-ku, Japan; ⁴AMR Inc., Meguro-ku, Japan

- MP 472 Improving Metabolite Extraction in Metabolomics with Crosslinkers; Kevin Y Cho¹; Liz Llufrio¹; Xiangfeng Niu¹; Gary J. Patti¹; ¹Washington University School of Medicine, St. Louis. MO
- MP 473 Extraction and Quantitation of NAD(P)(H); Wenyun Lu¹; Li Chen¹; Sheng Hui¹; Joshua D Rabinowitz¹; ¹Princeton Universitry, Princeton, NJ
- MP 474 Evaluation of an Automated LC-MS/MS System for Analyzing Hydrophilic Blood Metabolites; Shin Nishiumi¹; Keisuke Shima²; Hidekazu Saiki²; Takeshi Azuma¹; Masaru Yoshida¹.³; ¹Kobe University Graduate School of Medicine, Kobe, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³AMED, Kobe, Japan

METABOLOMICS: TARGETED AND QUANTITATIVE ANALYSIS I 475 - 495

- MP 475 Liquid Chromatography Tandem Mass Spectrometric Analysis of Bile Acids in Biological Samples; Jaeman Byun¹; Anna V. Mathew¹; Adil Jadoon¹; Subramaniam Pennathur¹; ¹University of Michigan, Ann Arbor, MI
- MP 476 N-omics: Metabolomics for N-containing Metabolites;

 Ryo Nakabayashi¹; Kei Hashimoto¹; Tetsuya Mori¹; Kiminori
 Toyooka¹; Kazuki Saito¹,²; ¹RIKEN Center for Sustainable
 Resource Science, Yokohama, Kanagawa; ²Chiba
 Univevrsity, Chiba, Japan
- MP 477 Multivariate Approach to Optimize a Novel Diagnostic One-Pot Derivatization Kit for Biomarkers of BTEX;

 Yehia Baghdady¹; Kevin A. Schug¹; ¹The University of Texas at Arlington. Arlington. TX
- MP 478 Identification and Quantitation of Long Chain Fatty
 Acids byTargeted Metabolomics; Chandra Shekar R
 Ambati¹; Nagireddy Putluri¹; Arun Sreekumar¹; Vivekananda
 Shetty¹; ¹Baylor College of Medicine, Houston, TX
- MP 479 Human Plasma Targeted-Metabolomics Using an Amine Derivatization Reagent; <u>Kazutaka Shimbo</u>; *Ajinomoto CO., INC, Kawasaki-Shi, Kanagawa*
- MP 480 Using Metabolomics to Characterize Marine Organic Matter Cycling by Microbes; Melissa C. Kido Soule¹; Krista Longnecker¹; Cara L. Fiore²; Jamie W. Becker³; Rogier Braakman³; Keven Dooley³; Allison Coe³; Sallie W. Chisholm³; Elizabeth B. Kujawinski¹; ¹Woods Hole Oceanographic Ins, Woods Hole, MA; ²Appalachian State University, Boone, North Carolina; ³Massachusetts Institute of Technology, Cambridge, MA
- MP 481 An Isotope-Labeling Chemical Derivatization UPLC/
 MRM-MS Method for Accurate Quantitation and
 Stability Testing of Carnitines in Dried Blood Spots; Jun
 Han¹; Rehan Higgins¹; Juncong Yang¹; Karen Lin¹; Kieran
 Atkinson¹; Christoph H. Borchers¹.²; ¹University of Victoria
 Genome BC Proteomics Centre, Victoria, BC, Canada;
 ¹Dept. of Biochemistry and Microbiology, University of
 Victoria, Victoria, BC, Canada
- MP 482 A Targeted LC-MS/MS Method for Separation and Quantification of Numerous Vitamin D Metabolites including 1α,25(OH)2D, 3-EPI-25OHD3, and 25OHD3;

 <u>Brian C Defelice</u>^{1, 2}; Oliver Fiehn^{1, 2}; ¹West Coast Metabolomics Center, Davis, CA; ²University of California, Davis, Davis, CA
- MP 483 Collaborative Cross Founder Mouse Strain Profiling via Targeted Metabolomic Library; Dorothy Ahlf Wheatcraft¹; Rob Wilpan²; Ruth Saxl²; ¹Jackson Laboratory, Bar Harbor, ME; ²The Jackson Laboratory, Bar Harbor, ME
- MP 484 Evaluation of High Speed, High Resolution Data Independent Acquisition for Simultaneous Identification and Quantitative Metabolomic Flux Analysis; Loren Olson¹; Emile Plise²; Baljit Ubhi¹; ¹SCIEX, Redwood City, CA; ²Genentech, Inc, South San Francisco, CA



- MP 485 Validation and Characterization of the iROA Standard Library using High Resolution Mass Spectrometry;

 Vilinh Tran¹; Ken Liu¹; Dean P Jones¹; ¹Emory School of Medicine. Atlanta. GA
- MP 486 Detection and Quantitation of Sugar Phosphate
 Metabolite Markers in Femto Molar Concentration using
 6500+ QTRAP LCMS/MS System; Manoj Pillai¹; Dipankar
 Malakar¹; Faraz Rashid¹; ¹ABSCIEX, Gurgaon, Haryana
- MP 487 Separation, Identification and Quantification of Peptidoglycan Fragments by Zwitterionic Hydrophilic Interaction Chromatography and Capillary Electrophoresis Coupled to Mass Spectrometry;

 Madeleine Boulanger¹, ²; Alice Raymackers²; Cédric Delvaux¹; Johann Far¹; Loïc Quinton¹; Edwin De Pauw¹; Bernard Joris²; ¹Mass Spectrometry Laboratory, Liège, Belgium; ²Center for Protein Engineering, Liège, Belgium
- MP 488 Quantitative Profiling of Central Carbon Metabolites by Liquid Chromatography-Mass Spectrometry; Yan-Ping Lin¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia. PA
- MP 489 Nano LC-MS/MS Method Development for the Analysis of Steroids in Whale Blubber for Reproductive Fitness and Stress Assessments; Ruchika Bhawal¹; Mary Hayden¹; John Escobedo¹; Clinton Harmon¹; David Klein¹; Susan San Francisco¹; Masoud Zabet Moghaddam¹; Celine Godard-Codding¹; Texas Tech University, Lubbock, TX
- MP 490 Targeting the Long Game: Assessing Longitudinal Precision and Bias of Two Targeted Metabolomics Platforms in the Context of Clinical Metabolomics;

 J. Will Thompson 1; Lisa St. John-Williams1; M. Arthur Moseley1; 1Duke University School of Medicine, Durham, NC.
- MP 491 Quantification of Amino Acids using Isotopic Ratio Outlier Analysis (IROA) and LC-MS/MS; Vanessa Y. Rubio¹; Chris Beecher².³; Richard A. Yost¹; Timothy J. Garrett⁴; ¹University of Florida, Department of Chemistry, Gainesville, FL; ²IROA Technologies, Gainesville, Florida; ³University of Florida, Gainesville, FL; ⁴University of Florida, Department of Immunology, Pathology, and Laboratory Medicine. Gainesville. FL
- MP 492 Quantitative LC-MS/MS Analysis of 100 Intracellular Metabolites of Clostridium autoethanogenumusing Multiple Uniformly 13C-labelled Internal Standards; Laudina Safo¹; Alex Grosse-Honebrink²; Salah Abdelrazig²; Bart Pander²; Anne M. Henstra²; Rupert Norman²; Thomas Millat²; Neil R Thomas²; Klaus Winzer²; Dong-Hyun kim²; Nigel Minton²; David A. Barrett²; ¹University of Nottingham, nottingham; ²University of Nottingham, School of Pharmacy, Nottingham, UK
- MP 493 Determination of TCA Metabolites by Ion
 Chromatography HR/AM Mass Spectrometry; Terri T
 Christison¹; Shen Hu²; Ralf Tautenhahn¹; Reiko Kiyonami¹;
 Jeffrey S Rohrer¹; ¹Thermo Fisher Scientific, San Jose, CA;
 ²University of California, Los Angeles, Los Angeles, CA
- MP 494 Targeted Metabolomics using LC-QqQLIT, Data-Dependent Acquisition, and Scheduled SRM; Michel Wagner¹; Marc Turgeon¹; George Poulogiannis¹; ¹The Institute of Cancer Research, London
- MP 495 Solvent-compensation liquid Chromatography System Coupled with Multiple Detectors in the Analysis of Metabolites Related to the Quality of Tea; Che-I Liao¹; Zong-Yi Wu¹; Kuo-Lung Ku¹; ¹National Chiayi University, Chiayi City, Taiwan

METABOLOMICS: UNTARGETED METABOLITE PROFILING I 496 - 519

- MP 496 Comparative Metabolic Profiling of Metastatic and Primary Melanoma Cell Lines; Zhihao Yu¹; Ming Huang²; Brian Clowers¹; ¹Washington State University, Pullman, WA; ²University of California, Riverside, Riverside, CA
- MP 497 Separating Metabolites Basing on Their Structural Properties: A Metabolomics Case Study, and Potential Path to Molecular Structure Digitization; Gang Xing¹; Michelle F. Clasquin¹; Meihua Tu¹; Thomas V. Magee¹;

 1 Pfizer, Cambridge, MA
- MP 498 Molecular Biogeography of the Heart Identifies

 Determinants of Chagas Disease Progression; LauraIsobel McCall¹; James T. Morton¹; Jair Lage de SiqueiraNeto¹; Rob Knight¹; Pieter C. Dorrestein¹; James H.

 McKerrow¹; ¹University of California San Diego, San Diego, CA
- MP 499 Multiplatform Metabolomics Reveals Predictive Prostate Cancer Recurrence Phenotypes Following Radical Prostatectomy; Chaevien S. Clendinen¹; David A. Gaul¹; Rebecca S. Arnold²; Arthur S. Edison³; John A. Petros².
 ¹; ¹Georgia Institute of Technology, Atlanta, GA; ²Emory University, Atlanta, Georgia; ³University of Georgia, Athens, GA; ⁴Atlanta VA Medical Center, Atlanta, GA
- MP 500 Metabolomic Signatures in Urine from Renal Cell Carcinoma Patients; David A. Gaul¹; Chaevien S. Clendinen¹; Rebecca S. Arnold²; John A. Petros²; Facundo M. Fernandez¹; ¹Georgia Institute of Technology, Atlanta, GA; ²Emory University, Atlanta, GA
- MP 501 Proteomics and Metabolomics Profiles of Endothelial Cells under High and low Shear Stress: Understanding the Atherosclerosis Onset at Molecular Level; Gabriela Venturini Silva¹; Rafael Dariolli¹; Kallyandra Padilha¹; Pamella Araujo Malagrino¹; Tamiris Gois¹; Valdemir Melechco Carvalho²; Jessica Silva Salgueiro²; Karina Morais Cardozo²; Jose Eduardo Krieger¹; Alexandre Costa Pereira¹; ¹Incor FMUSP, Sao Paulo, Brazil; ²Fleury Group, Sao Paulo, Brazil
- MP 502 Curatr: A Browser Based Platform for Building High Quality Spectral Libraries; Andrew Palmer¹; Prasad Phapale¹; Dominik Fay¹; Theodore Alexandrov^{1,2}; ¹EMBL, Heidelberg, Baden-Wuerttemberg; ²Skaggs School of Pharmacy, University of California San Diego, La Jolla, CA
- MP 503 A Pilot Multiplatform Metabolomic Fingerprinting Study of Plasma Metabolic Alterations in Breast Cancer;

 Mónica Cala¹; Julian Aldana¹; Jessica Medina²; Julian Sanchez³; Jose Guio³; Julien Wist²; Roland Meesters¹;

 ¹Universidad de los Andes, Bogotá, D.C., Colombia;
 ²Universidad del Valle, Cali, Colombia; ³Liga contra el Cancer Seccional Bogotá, Bogotá, D.C., Colombia
- MP 504 Intra- and Inter-Lab LC-MS Data Comparison for Studying Portability of a Metabolite Library for Rapid Metabolite Identification in Metabolomics; Shuang Zhao¹; Xian Luo¹; Ulrike Schweiger Hufnagel²; Aiko Barsch²; Liang Li¹; ¹University of Alberta, Edmonton, Alberta; ²Bruker Daltonik GmbH, Bremen, Germany
- MP 505 Metabolomic Profile of Tambaqui Fish (Colossoma macropomum, Cuvier 1818) under Hypoxia; Clécio
 Fernando Klitzke¹; Marcos N. Eberlin²; Adalberto L Val¹;

 ¹Laboratory of Ecophysiology and Molecular Evolution,
 Brazilian National Institute for Research of the Amazon,
 Manaus, Brazil; ²ThoMSon Mass Spectrometry Laboratory,
 Institute of Chemistry, University of Campinas, Campinas,
 Brazil
- MP 506 Development of Chemical Isotope Labeling Liquid Chromatography Mass Spectrometry for Profiling the Carbonyl Submetabolome; Shuang Zhao¹; Margot Dawe¹; Kevin Guo¹; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada, Canada



- MP 508 Profiling of Polyphenols in Fruits and Vegetables by UPLC-(ESI)-QToF-MS with UNIFI-based Data
 Processing; Dasharath Pandurang Oulkar¹; Zareen Khan¹;
 Kaushik Banerjee¹; ¹National Referral Laboratory, ICAR-National Research Centre for Grapes, Manjri Farm, Pune, India
- MP 509 Determining Impacts of a Natural Product Biosynthetic Pathway on Streptomyces Metabolomes by Isotopic Ratio Outlier Analysis (IROA) Global Metabolomics; Amy L Lane¹; Elle D James¹; Felice A de Jong²; Chris Beecher³; ¹University of North Florida, Jacksonville, FL; ²IROA Technologies LLC, Bolton, MA; ³University of Florida, Gainesville, FL
- MP 510 MALDI-MSI Allows Identification and Semi-Quantification of Endogenous Cardenolides Associated with Glioblastoma Cells Death under ZIKV Infection;

 Estela de Oliveira Lima¹; Tatiane Melina Guerreiro¹; Carlos Fernando O. R. Melo¹; Diogo Noin de Oliveira¹; Daisy Machado²; Marcelo Lancellotti²; Rodrigo Ramos Catharino¹;

 ¹Innovare Biomarkers Laboratory, Campinas, Brazil;
 ²Laboratory of Biotechnology, Campinas, Brazil
- MP 511 Global Metabolomic Investigation of Tissues from Melanoma Patients with HRMS Using a Yeast Standard for Isotopic Ratio Outlier Analysis (IROA); Taylor M.

 Domenick¹; Chris Beecher².³; Louis Searcy¹; Peter A.

 Kanetsky⁴; Richard A. Yost¹; Nicholas Taylor⁵; Timothy J.

 Garrett⁶; ¹University of Florida, Department of Chemistry, Gainesville, FL; ²IROA Technologies, Gainesville, Florida; ³University of Florida, Gainesville, FL; ⁴H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL; ⁵Texas A&M University, College Station, TX; ⁵University of Florida, Department of Immunology, Pathology, and Laboratory Medicine, Gainesville, FL
- MP 512 Metabolomic Studies of Pyrazinamide in Mycobacterium Tuberculosis Using an Ion-pairing Reverse Phase Q-TOF LC/MS Approach; Yuqin Dai¹; Travis E Hartman²; Steve M Fischer¹; Kyu Y Rhee².³; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Division of Infectious Diseases, Department of Medicine, Weill Cornell Medical College, New York, NY; ³Department of Microbiology and Immunology, Weill Cornell Medical College, New York, NY
- MP 513 Global Plasma Metabolic Profiles in Term and Preterm Birth; Brittany Lee-McMullen¹; Kevin Contrepois¹; Martin Angst¹; Brice Gaudillere¹; Stephen Quake¹; David A. Relman¹; Gary M. Shaw¹; David K. Stevenson¹; Mike Snyder¹; ¹Stanford University, Stanford, CA
- MP 514 Metabolic Effects in Atorvastatin-Treated Liver Cells; Gabriela Venturini¹; Kallyandra Padilha¹; Rafael Dariolli¹; Pamella Araujo Malagrino¹; Jose Eduardo Krieger¹; Alexandre Costa Pereira¹; ¹Heart Institute. Sao Paulo. SP
- MP 515 Untargeted Investigation of Non-alcoholic Fatty
 Liver Disease Using Effective Multiplatform GC-MS
 Instrumentation; David Alonso¹; Xiang Zhang²; Joe
 Binkley³; ¹LECO Corporation, St. Joseph, MI; ²University of
 Louisville, Louisville, KY; ³LECO Corporation, St Joseph, MI
- MP 516 The Effect of Sleep and Circadian Disruption on the Human Metabolome; Fernando Vargas¹; Christopher Depner²; Antonio González Peña³; Kenneth Wright²; Rob Knight³; Pieter C. Dorrestein¹; ¹Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, La Jolla, CA; ²University of Colorado, Boulder, CO; ³Department of Pediatrics, University of California San Diego, San Diego, CA

- MP 517 Untargeted Metabolomics Reveals Novel Metabolites within the Coastal and Open Ocean; Elizabeth

 Kujawinski¹; Winifred Johnson¹; Melissa C. Kido Soule¹;

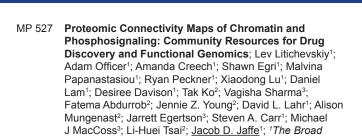
 Krista Longnecker¹; ¹Woods Hole Oceanographic Inst.,

 Woods Hole, MA
- MP 518 Utilizing an Untargeted Ion Mobility-Mass Spectrometry
 Method to Profile Changes in the Gut Metabolome;

 James Poland¹; Alexandra C Schrimpe-Rutledge¹; Charles
 Robb Flynn¹; John A. McLean¹; ¹Vanderbilt University,
 Nashville, TN
- MP 519 Metabolic Reprogramming by ETHE1, a Mitochondrial Persulfide Dioxygenase; Changyuan Lu¹; Joshua Benjamin Zuk¹; Steven Gross¹; ¹Weill Medical College of Cornell, New York, NY

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- MP 520 Novel Capillary Flow LC HRAM MS Platform for Fast Targeted Analysis and Robust Profiling of Complex Samples; Alexander Boychenko¹; Martin Ruehl¹; Peter Bults²; Stephan Meding¹; Mike Baynham³; Wim Decrop¹; Alexander Harder⁴; Nico Van De Merbel²; Rainer Bischoff²; Remco Swart¹; *Thermo Fisher Scientific, Germering, Germany; *2University of Groningen, Groningen, Netherlands; *3Thermo Fisher Scientific, Runcorn, UK; *Thermo Fisher Scientific, Bremen, Germany
- MP 521 An HS-MRM Assay for Quantification of Host Cell Proteins in Therapeutic Monoclonal Antibodies; Catalin Doneanu¹; Jing Fang²; Yun Alelyunas²; Ying Qing Yu²; Mark Wrona²; Weibin Chen²; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Milford, MA
- MP 522 An Open-Source Tool for the Creation of Multiplexed,
 Targeted Proteomic Instrument Methods Utilizing
 Isobaric Labels; Christopher Rose^{1, 2}; Brian K Erickson²;
 Steven Gygi²; Donald Kirkpatrick¹; ¹Genentech, Inc., South
 San Francisco, CA; ²Harvard Medical School, Boston, MA
- MP 523 Building ProteomeTools Based on a Complete Synthetic Human Proteome; Daniel P. Zolg¹; Mathias Wilhelm¹; Karten Schnatbaum²; Johannes Zerweck²; Tobias Knaute²; Bernard Delanghe³; Hans-Christian Ehrlich⁴; Peng Yu¹; Siegfried Gessulat¹.⁴; Maximilian Weiniger¹; Tobias K Schmidt¹; Patroklos Samaras¹; Karl Kramer¹; Judith Schlegl⁵; Holger Wenschuh²; Thomas Moehring³; Stephan Aiche⁴; Andreas F. Huhmer⁶; Ulf Reimer²; Bernhard Kuster¹. 7′; ¹Technical University of Munich, Freising, Germany; ²JPT Peptide Technologies GmbH, Berlin, Germany; ³Thermo Fisher Scientific, Bremen, Germany; ⁴SAP SE, Potsdam, Germany; ⁵SAP SE, Walldorf, Germany; 6ThermoFisher, San Jose, CA; ¹Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany
- MP 524 A Highly Effective Workflow for the Targeted Detection of Peptides in Complex Biological Sample Matrices from Discovery to Quantitation; David Sarracino¹; Susan E Abbatiello¹; Scott Peterman¹; Amol Prakash²; Shen Luan¹; Claudia Martins³; Mary Blackburn³; ¹Thermo Scientific, Cambridge, MA; ²Optys Technologies, Boston, MA; ³Thermo Fisher Scientific, San Jose, CA
- MP 525 DesigningTargeted Detection of Peptides in Complex Matrices combining the MIDAS™ Workflow with the Skyline Software; Jenny Albanese¹; Christie Hunter²; Kaipo Tamura³; Brendan MacLean⁴; ¹Jenny Albanese, Redwood City, CA; ²Christie L. Hunter, Redwood City, CA; ³Kaipo Tamura, Seattle, WA 98105; ⁴Brendan, Seattle, WA
- MP 526 Optimized Peptide Retention Time Standards for Targeted Proteomics; Lawrence Eckler¹; Karsten Schnatbaum¹; Daniel Zlog²; Tobias Knaute¹; Mathias Wilhelm³; Bernhard Kuster⁴; ¹JPT Peptide Technologies, Berlin; ²Technical University of Munich, Freising, Germany; ³Center for Integrated Protein Science Munich, Freising, Germany; ⁴Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany



Institute, Cambridge, MA; 2Massachusetts Institute of

Technology, Cambridge, MA; 3University of Washington,

Seattle, WA

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Scout-MRM Simplifies Targeted Assay Development from Public Proteomic Dataset: A Yeast Proteome
Case Study; Lény Garcia¹; Romain Carriere¹; Eric
Testet²; Pathy Laquel³; François Doignon³; Yves LeBlanc⁴; Ayciriex Sophie¹; Jérôme Lemoine⁵; ¹Institut des Sciences
Analytiques, Université de Lyon, Université Lyon 1, Ens
de Lyon, CNRS, Lyon, France; ¹Institut Polytechnique de
Bordeaux, Bordeaux, France; ³Université de Bordeaux,
Bordeaux, France; ⁴SCIEX, Concord, ON, Canada, ON,

MP 529 Towards Accurate Multiplexed Protein Mass Spectrometry for the Masses; Martin Wühr¹; Graeme McAlister²; Matthew Sonnett¹; ¹Princeton University, Princeton, NJ; ²ThermoFisher, San Jose, CA

Canada; 5Université de Lyon, Villeurbanne

MP 530 Trends in Disulfide Bond Formation in Cysteine Containing Small Peptides; Michael D. Browne¹; LeRoi de-Souza¹; Ekram Hossain¹; Jianhua Ren¹; ¹University of the Pacific, Stockton, CA

MP 531 Selective Capture and Analysis of Azido Compounds Using aPropargyl-based Cleavable Linker; Michael

GJ Doyle¹; Baylie Gigolyk¹; Michelle Mclellan¹; Vinith
Yathindranath¹; Edward D Bodnar²; Helene Perreault³;

¹University of Manitoba, Winnipeg, MB; ²Agilent
Technologies, Inc., Wilmington, DE; ³University of Manitoba,
Winnipeq, MB

MP 532 Bioanalytical Method Development for Therapeutic Peptides: Strategies for Overcoming LC/MS/MS-based Assay Hurdles; Moucun Yuan¹; Eric Ma¹; William Mylott¹; Rand Jenkins¹; *PPD Laboratories, Richmond, VA

MP 533 Targeted Neuropeptidomics: Parallel Reaction Monitoring or Data-Independent Acquisition for the Analysis of Neuropeptides using High-Resolution Mass Spectrometry; Mouna Saidi¹; Soufiane Kamali¹; Francis Beaudry¹; ¹Université de Montréal, St-Hyacinthe, QC, Canada

MP 534 Implementation of Capillary Zone Electrophoresis
Methods in Quantitative Proteomics; Simion Kreimer¹;
Benjamin C Orsburn²; Robert N. O'mealy¹; Robert N. Cole¹;

¹Mass Spectrometry and Proteomics Facility, Johns Hopkins
School of Medicine, Baltimore, Maryland; ²Thermo Fisher
Scientific, Baltimore, Maryland

MP 535 Using Electrokinetic Injection to Increase Throughput and Improve Sensitivity in the Detection of Basic Neuropeptides by Capillary Electrospray Ionisation (CESI); Stephen J. Lock¹; Jim Thorn¹; Edna Betgovargez²; Bryan Fonslow²; ¹SCIEX, Warrington, UK; ²Sciex, Brea, CA

MP 536 A Standard Assessment of the Extracellular Vesicles' Purification Methods by Targeted Mass Spectrometry; Tingting Wang^{1, 2}; Kyle W Anderson^{1, 2}; Illarion V. Turko^{1, 2}; 'NIST, Gaithersburg, MD; ²Institute for Bioscience and Biotechnology, Rockville, MD

MP 537 A Carrier-Assisted Targeted Mass Spectrometry
Approach for Proteomics Analysis of Single Cells;
Tujin Shi¹; Matthew J. Gaffrey¹; Thomas L. Fillmore¹; Song
Nie¹; Carrie D. Nicora¹; H. Steven Wiley¹; Karin D. Rodland¹;
Tao Liu¹; Richard D. Smith¹; Wei-Jun Qian¹; ¹PNNL,
Richland. WA

MP 538 An Objective Cross-Platform Comparison between MRM and PRM Based Quantitative Plasma Proteomic Workflows Reveals Similar Sensitivity and Reproducibility; Vincent R. Richard¹; Andre M. LeBlanc¹; Christoph H. Borchers¹.².3.⁴; ¹JGH Proteomics Centre, Lady Davis Institute, McGill University, Montreal, QC, Canada; ²University of Victoria - Genome BC Proteomics Centre, Victoria, BC, Canada; ³Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada; ⁴Dept. of Oncology, Segal Cancer Centre, Jewish General Hospital, McGill University, Montreal, QC, Canada

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MP 539 Multi-omic Approach for Characterizing Plant Peptide Hormone Signaling Pathways That Regulate Cell Expansion; Greg Sabat¹; Gregory A. Barrett-Wilt¹; Michael R. Sussman¹; ¹University of Wisconsin, Madison, WI

MP 540 Engineered Resistance to a Bean Fungal Disease against Proteins Found by Mass Spectrometry; Bret. Cooper; USDA-ARS, Beltsville, MD

MP 541 Analysis of Canadian Wheat Varieties Low Molecular Weight Glutenin Subunits Relative to Gluten Strength: A Genotype x Environment Study; Dave Hatcher¹; Raymond Bacala¹; ¹Grain Research Lab, Canadian Grain Commission, Winnipeg, MB

MP 542 Investigation of Kinase-Substrate Networks in Photosynthetic Organisms; Megan M. Ford¹; Alex Chao¹; Chris A. Broberg¹; Leslie M. Hicks¹; ¹University of North Carolina, Chapel Hill, NC

MP 543 The Proteomic Profile of Rice Mitosis under Drought Stress; Paul A. Haynes¹; Yunqi Wu¹; Mehdi Mirzaei¹; Dana Pascovici²; Brian J. Atwell³; ¹Dept of Chemistry and Biomolecular Sciences, Macquarie University, North Ryde, Sydney, Australia; ²Australian Proteome Analysis Facility, Macquarie University, North Ryde, Sydney, Australia; ³Dept of Biological Sciences, Macquarie University, North Ryde, Sydney, Australia

MP 544 Global Analysis of Native Protein Complexes inCyanothecesp. ATCC 51142 using Label-Free Quantitative Proteomic Profiling; Uma Aryal¹; Victoria Hedrick¹; Tiago José Paschoal Paschoal Sobreira¹; Christina R Ferreira¹; Ding Ziyun²; Daisuke Kihara²; Louis Sherman³; ¹Bindley Bioscience Center, Purdue University, West Lafayette, IN; ²Department of Computer Science, Purdue University, West Lafayette, United Arab Emirates; ³Department of Biological Sciences, Purdue University, West Lafayette, IN

MP 545 Leaf Spray Mass Spectrometry for Soybean Metabolomics; <u>Troy Wood</u>¹; Kevin Zemaitis¹; Daniel Szczepankiewicz¹; ¹University at Buffalo, Buffalo, NY

MP 546 Ion Mobility and High Resolution Mass Spectrometry of Centella asiatica Extracts – Characterization and Quantification of Phytochemical Constituents; Armando Alcazar Magana¹; Maya Caruso²; Amala Soumyanath²; Joseph Quinn².³; Jan F. Stevens⁴.⁵; Claudia S. Maier¹; ¹Department of Chemistry, Oregon State University, Corvallis, OR; ²Department of Neurology, Oregon Health & Science University, Portland, OR; ³Department of Neurology and Parkinson's Disease Research Education and Clinical Care Center, Portland, Or; ⁴Department of Pharmaceutical Sciences, Oregon State University, Corvallis, OR; ⁵Linus Pauling Institute, Oregon State University, Corvallis, OR

MP 547 Evaluation of ETD, HCD and CID Fragmentation for Phosphoproteomics of Grape (Vitis viniferal.) Berries; Liping Yang¹; Satyanarayana Gouthu²; Laurent G. Deluc²; Claudia S. Maier¹, ³; ¹Department of Chemistry, Oregon State University, Corvallis, OR; ²Department of Horticulture, Oregon State University, Corvallis, OR; ³Linus Pauling Institute, Oregon State University, Corvallis, OR

- MP 548 Using Metabolomics to Uncover Metabolic Pathways Utilized in Nitrogen Stress and Plant-Microbe Interactions in Energy Sorghum; Amy M. Sheflin1; Jessica E. Prenni¹; Daniel P. Schachtman²; Rebecca Bart³; Thomas Brutnell3; Daniel Chitwood3; Asaph Cousins4; Jeffrey Dangl⁵; Ismail Dweikat²; Andrea Eveland³; Maria Harrison⁶; Stephen Kresovich⁷; Peng Liu⁸; Todd Mockler³; Susannah Tringe⁹; Arthur Zygielbaum²; ¹Colorado State University's Proteomics and Metabolomics Facility, Fort Collins, CO; ²University of Nebraska-Lincoln, Lincoln, NE; 3Donald Danforth Plant Science Center, St. Louis, MO; 4Washington State University, Pullman, WA; 5UNC-Chapel Hill, Chapel Hill, NC; Boyce Thompson Institute, Ithaca, NY; ⁷Clemson University, Clemson, SC; ⁸Iowa State University, Ames, IA; 9Joint Genome Institute-DOE, Walnut Creek, CA
- MP 549 Proteomic Identification of BIK1 Direct Substrates that Mediate the Arabidopsisinnate Immunity; Peipei Zhu¹; Chuan-Chih Hsu¹; Pengchang Wang¹; Yanyan Du¹; Jian-Kang Zhu¹; W. Andy Tao¹; ¹Purdue University, West Lafavette. IN
- MP 550 Paterno-Buchi (PB) Reaction Coupled with Tandem Mass Spectrometry for the Analysis of Plant Lipids and Their Isomers; Leelyn Chong¹; Zheng Ouyang².³; Yu Xia².³; ¹Purdue University, West Lafayette, IN; ²Purdue University, West lafayette, Indiana; ³Tsinghua University, Beijing, Beijing
- MP 551 Investigation of Natural Products in Symbiotic
 Nitrogen-Fixing Root Nodules of Datisca glomerata
 by LC-MSn and Ion Tree Analysis using iTree; Arpana
 Vaniya^{1, 2}; Sajjan S. Mehta²; Kai Battenberg³; Alison Berry³;
 Oliver Fiehn²; ¹UC Davis Department of Chemistry, Davis,
 CA; ²West Coast Metabolomics Center, Davis, CA; ³UC
 Davis Department of Plant Sciences, Davis, CA
- MP 552 Advances in the Use of *in vivo* Crosslinking and Immunoaffinity Purification-Mass Spectrometry to Provide Insights into Unconventional Protein Secretion; Tricia C. Ho¹; Kevin Blackburn¹; John D. Williamson¹; Michael B. Goshe¹; ¹NC State University, Raleigh, NC
- MP 553 Proteomic Analysis of H2S Induced Protein
 S-Sulfhydration in Arabidopsis thaliana; Yixiang
 Zhang^{1, 2}; Xuhong Yu³; Hui Peng^{1, 4}; David P. Giedroc^{1, 4};
 Scott D. Michaels³; Jonathan Trinidad^{1, 2}; ¹Department of
 Chemistry, Indiana Univeristy, Bloomington, IN; ²Laboratory
 for Biological Mass Spectrometry, Indiana University,
 Bloomington, IN; ³Department of Biology, Indiana University,
 Bloomington, IN; ⁴Department of Molecular and Cellular
 Biochemistry, Indiana University, Bloomington, IN
- MP 554 GC-MS and UHPLC-HRMS Analysis of Aechmea Magdalenae Rhizome against E. coli and S. aureus;

 Mirna Giron¹; Quintin Ferraris¹; Anima Ghosal¹; Dil Ramanathan²; ¹Kean University, Union, NJ; ²Kean University, Union, NJ
- MP 555 **Detecting the "Un-natural" in Natural Products**; Jimmy Yuk¹; Dhavalkumar Narendrabhai Patel²; <u>Sukhdev Bangar</u>³; Yun Wang Alelyunas¹; Jayne Kirk⁴; Giorgis Isaac¹; Mark Wrona¹; ¹Waters Corporation, Milford, MA; ²Waters Pacific Private Ltd, Singapore, Singapore; ³Waters Corporation, Beverly, MA; ⁴Waters Corporation, Wilmslow, UK
- MP 556 Chemical Fingerprinting of Essential Oils from Conifer Needles by ESI/APPI FT-ICR Mass Spectrometry;
 Omolara Mofikoya¹; Marko Mäkinen¹; Janne Jänis¹;
 ¹Department of Chemistry, University of Eastern Finland, Joensuu, Finland
- MP 557 Divergence in Phenolic Secondary Metabolites and Tyrosine Hyperaccumulation among Populations in the Inga umbellifera clade (Fabaceae), a Tropical Tree; Gordon C. Younkin¹; Dale L. Forrister¹; Gabrielle Ghabash¹; Phyllis D. Coley¹.²; Maria-Jose Endara¹; James A. Nicholls³; R. Toby Pennington⁴; Kyle G. Dexter³; Graham N. Stone³; Catherine A. Kidner⁴; Thomas A. Kursar².⁵; ¹University of

- Utah, Salt Lake City, UT; ²Smithsonian Tropical Research Institute, Panama City, Panama; ³University of Edinburgh, Edinburgh, UK; ⁴Royal Botanic Garden Edinburgh, Edinburgh, UK; ⁵University of Utah, Salt Lake City, UT
- MP 558 Temporal Proteome and Metabolome Profiling of Water-Deficit Stress Responses in Populus Leaves; Paul E. Abraham¹; Daniel A. Jacobson¹; Robert L. Hettich¹; Gerald A. Tuskan¹; Timothy J. Tschaplinski¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- MP 559 Identifying and Characterizing Plant-Derived Cyclic Peptides via High Resolution LC-MS/MS; Nicole C Parsley¹; Christine L Kirkpatrick¹; Leslie M Hicks¹; ¹University of North Carolina at Chapel Hill, Department of Chemistry, Chapel Hill, NC
- MP 560 Comparison of Different Offline Fractionation
 Techniques for Label Free Proteome Profiling of
 Arabidopsis Leaf Tissue; Julia Mergner¹; Lucia Guettler¹;
 Bernhard Kuster¹; ¹Chair of Proteomics and Bioanalytics,
 Technical University of Munich, Freising, Germany
- MP 561 Proteome Analysis of Brachypodium distachyon
 Leaves under Drought Stress with Timewise Variation;
 Ozge Tatli¹; Bahar Sogutmaz Ozdemir²; Gizem Dinler
 Doganay¹; ¹Istanbul Technical University, Istanbul, Turkey;
 ²Yeditepe University, Istanbul, Turkey

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- MP 562 Evidence that the Polyglutamine Aggregation Inhibitor QBP1 Interacts with Monomeric Ataxin-3 at a Novel Site; Patrick Knight¹; Theodoros Karamonos¹; Sheena E Radford¹; Alison E Ashcroft¹; ¹University of Leeds, Leeds, Yorkshire</sup>
- MP 563 Assessing Conformational Heterogeneities of Beta-2 Microglobulin Pre-Amyloid Oligomers using Ion Mobility Mass Spectrometry; <u>Tyler Marcinko</u>¹; Richard W Vachet¹; 'University of Massachusetts-Amherst, Amherst, MA
- MP 564 Time-Resolve Mass Spectrometry with A Micromixing Tee Applied to Kinetic Studies of Cd2+ Binding to Methallothionein-2A; Shiyu Dong¹; Nicole Wagner¹; David H Russell¹; ¹Texas A&M University, College Station, TX
- MP 565 Characterization of Biotherapeutics by Native SEC-MS: from Cysteine-linked Antibody Conjugates to Megadalton Protein Assembly; Jia Dong¹; Suprit Deol¹; Feng Wang¹; Bryant Chau¹; Karla Henning¹; David Passmore¹; ¹Bristol-Myers Squibb, Redwood City, CA
- MP 566 Interaction Proteomics on Glycine Receptor Interactome Reveal Novel Interactors: Implication in Inhibitory Neurotransmission in Brain Stem and Spinal Cord; Sophie J.F. van der Spek¹; Frank Koopmans¹; Miguel A. Gonzalez-Lozano¹; Roel van der Schors¹; Ka Wan Li¹; August B. Smit¹; ¹CNCR, VU Amsterdam, Amsterdam, Noord Holland
- MP 567 Investigating Additional Functions of BMV Capsid Protein by Mass Spectrometry; Alexander D. Jacobs¹; Haley S. Hoover²; C. Cheng Kao²; David E. Clemmer²; ¹Indiana University, Bloomington, IN; ²Indiana University, Bloomington, IN
- MP 568 Determining Ligand Interactions of Parvovirus with Fragment Antibodies and Transferrin Receptors using Charge Detection Mass Spectrometry; Carmen Dunbar¹; Heather Callaway²; Colin Parrish²; Martin Jarrold¹; ¹Indiana University, Bloomington, IN; ²Cornell University, Ithaca, NY
- MP 569 Separation and Quantification of Amyloid Beta Oligomers and Monomers Using a 2D-LC-MS/
 MS System; Farid Jahouh¹; Herman Borghys²; Filip Cuyckens¹; Rob J Vreeken¹.³; ¹Discovery Sciences, Janssen Pharmaceutica, Beerse, Belgium; ²Neurosciences Department, Janssen Pharmaceutica, Beerse, Belgium; ³M4I Institute Maastricht University, Maastricht, Netherlands



- MP 570 Novel Protein-Protein Interactions with Specific Functional Domains of RNA Polymerase II; Whitney Smith-Kinnaman¹; Asha Boyd¹; Nada Alakhras¹; Gabriela Mazur²; Lynn Bedard³; Amber Mosley¹; ¹Indiana University School of Medicine, Indianapolis, IN; ¹Indiana University-Purdue University Indianapolis, Indianapolis, IN; ³DePauw University, Greencastle, IN
- MP 571 Using Native Top-Down nESI FTICR-MS to Characterize the Interaction of Tau Protein with Assembly Modulator CLR01; Michael Nshanian¹; Joseph A Loo¹; Piriya Wongkongkathep¹; Gal Bitan¹; ¹UCLA, Los Angeles, CA
- MP 572 Anti-apoptotic Bag-1S is Involved in Ubiquitin-Dependent Proteasomal Degradation by Forming a Complex with AAA ATPase, p97/VCP; Sevilay Acar¹; Nisan Can¹; Tugba Kizilboga¹; Ozge Tatli¹; Gizem Dinler Doganay²; ¹Istanbul Technical University, Istanbul, Turkey; ²Istanbul
- MP 573 Analysis of Oxygen Sensitive Nitrogenase Complexes using Native Mass Spectrometry; Monika Tokmina-<u>Lukaszewska</u>¹; Natasha Pence¹; Rhesa Ledbetter²; Zhiyong Yang²; John Peters³; Lance Seefeldt²; Brian Bothner¹;

 ¹Montana State University, Bozeman, MT; ²Utah State University, Logan, UT; ³Washington State University, Pullman. WA
- MP 574 The Effect of Protein Concentration and Metal Content on Calprotectin Oligomerization as Revealed by Native Electrospray Ionization Mass Spectrometry; Boone M Prentice¹; Benjamin A Gilston²; Kevin L. Schey²; Walter J Chazin²; Richard M. Caprioli²; ¹Vanderbilt University, Nashville, TN; ²Vanderbilt University, Nashville, TN
- MP 575 Identification of Interaction Partners of Protein Phosphatase 2A in Human Skeletal Muscle using Label Free Mass spectrometry; divyasri damacharla¹; Zhengping Yi²; Xiangmin Zhang²; Danjun ma¹; Yue Qi¹; berhane seyoum¹; Abdullah mallisho¹; sorin Dragichi¹; Michael Caruso¹; ¹Wayne State University, Detroit, MI; ²Wayne State University, Detroit, MI
- MP 576 Limited Charge Reduction Coupled IM-MS Reveals
 Distinct Models of Biopolymers Interaction between
 Protamine and Heparin; Yunlong Zhao¹; Igor A. Kaltashov²;

 ¹University of Massachusetts Amherst, Amherst, MA;
 ²University of Massachusetts-Amherst, Amherst, MA
- MP 577 Identification of the 'Readers' of Histone Modification by Combination of DNA-templated Peptide Probe and Mass Spectrometry Analysis; Xue Bai¹; Congcong Lu²; Shanshan Tian¹; Guijin Zhai¹; <u>Kai Zhang¹,²; ¹Tianjin Medical University, Tianjin, Tianjin; ²Nankai University, Tianjin</u>
- MP 578 Comparative Interactome Analysis of Multidrug-Resistant and Sensitive Pathogenic Bacteria Strains of Acinetobacter baumannii; Xuefei Zhong¹; Xia Wu¹; Juan D. Chavez¹; Devin K Schweppe¹; Arti T Navare¹; Jimmy K Eng¹; James E Bruce¹; ¹University of Washington, Seattle, WA
- MP 579 Screening and Characterization of Nanobody-ABC-transporter Complexes using High-Mass Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry; Martin Köhler¹; Camilo Perez²; Kaspar Locher²; Renato Zenobi¹; ¹ETH Zurich, Department of Chemistry and Applied Biosciences, Zurich, Switzerland; ²ETH Zurich, Institute of Molecular Biology and Biophysics, Zurich, Switzerland
- MP 580 Investigation of GTP-Dependent K-Ras Oligomerization Using Native Top-Down Ultraviolet Photodissociation Mass Spectrometry; M. Rachel Mehaffey¹; Michael B. Cammarata¹; Christopher L. Schardon²; Walter Fast³; Jennifer S. Brodbelt¹; ¹Department of Chemistry, University of Texas at Austin, Austin, TX; ²Graduate Program in Biochemistry, University of Texas at Austin, Austin, TX; ³Division of Chemical Biology and Medicinal Chemistry, College of Pharmacy, University of Texas at Austin, Austin, TX

- MP 581 Interaction of Transcription Factor TEAD and Its DNA Response Element from C-MYC Promoter Studied by Structural Mass Spectrometry; Ruzena Liskova^{1, 2}; Lukas Slavata^{1, 2}; Daniel Kavan^{1, 2}; Karel Valis^{1, 2}; Petr Man^{1, 2}; Petr Novak^{1, 2}; *

 Novak^{1, 2}; *

 *IBIOCEV, Institute of Microbiology of the CAS, v.v.i., Vestec, Czech Republic; *

 *Faculty of Science, Charles University, Prague, Czech Republic
- MP 582 **Determination of the Heparin-Binding Sites of RPTP- LARS Via HRFP-FPOP and LC-MS/MS**; <u>Charles Mobley</u>¹;

 Pradeep Prabhakar²; Chelsea Suppinger¹; Kelley Moremen²;

 Joshua Sharp¹; ¹University of Mississippi, Oxford, MS;

 ²University of Georgia, Athens, GA
- MP 583 Quantifying the Effects of Membrane Composition on Protein-Glycolipid Interactions Using Nanodiscs and Proxy Ligand ESI-MS; Ling Han¹; Elena Kitova¹; John Klassen¹; ¹University of Alberta, Edmonton, AB, Canada
- MP 584 Native Mass Spectrometry to Identify Stoichiometries and Stability of Protein-Ligand Complexes; Sabine Wittig1; Marius Rutkauskas2; Ralf Seidel2; Carla Schmidt1; 1/WE ZIK HALOmem Martin-Luther-Universität Halle-Wittenberg, Halle (Saale), Germany; 2/Institute of Experimental Physics I Universität Leipzig, Leipzig, Germany
- MP 585 Elucidating Cellular Locales by Crosslinking Mass Spectrometry; Richard A. Scheltema^{1, 2}; Fan Liu^{1, 2}; Oleg Klykov^{1, 2}; Sibel Bayrak^{1, 2}; Barbara Steigenberger^{1, 2}; Domenico Fasci^{1, 2}; Albert J. R. Heck^{1, 2}; ** **Utrecht University, Utrecht, Netherlands; **2Netherlands Proteomics Center, Utrecht, Netherlands
- MP 586 Dynamic Protein Interactions and Post-Translational Modifications in Monocytes; Annika Frauenstein¹; Matthias Mann¹; Felix Meißner¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany
- MP 587 MS Study of Zinc-Binding to Mutant Forms of Amyloid-Beta Provide an Insight on the Early Mechanisms of Familial Alzheimer's Disease; Maria I. Indeykina^{1, 2, 3}; Alexey S. Kononikhin^{1, 2, 3}; Igor A. Popov^{1, 2, 3}; Aleksandra A. Kulikova⁴; Sergey A. Kozin⁴; Eugene (Evgeny) Nikolaev^{2, 3, 5}; *1Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow, Russia; *2Institute for Energy Problems of Chemical Physics of RAS, Moscow, Russia; *3Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia; *4Engelhardt Institute of Molecular Biology, Moscow, Russia; *5Kolkovo institute of science and technology, Skolkovo, Russia
- MP 588 Analysis of a Reconstituted, Non-Covalent Type III-A CRISPR-Cas Complex using Native Mass Spectrometry; Tina Y. Liu^{1, 2}; Anthony T lavarone^{3, 4}; Jennifer A. Doudna^{1, 2, 3, 5, 6}; ¹Department of Molecular and Cell Biology, University of California, Berkeley, CA; ²Howard Hughes Medical Institute, University of California, Berkeley, CA; ³California Institute for Quantitative Biosciences, University of California, Berkeley, CA; ⁴Department of Chemistry, University of California, Berkeley, CA; ⁵Innovative Genomics Initiative, University of California, Berkeley, CA; ⁶MBIB Division, Lawrence Berkeley National Laboratory, Berkeley, CA
- MP 589 **Mapping the HLA Antibody Interaction with Blue Paint**; William Hildebrand¹; Virginie Sjoelund¹; OUHSC, Oklahoma City, OK
- MP 590 Development of an MS Approach for Characterizing Intracellular Proteins Interacting with a G Protein-Coupled Receptor Captured using Laser-Induced Photo-Activation; Chen Qian^{1, 2}; Melinda Hauser²; Tyler King²; Jeffrey Becker²; Robert Hettich¹; ⁷Oak Ridge National Laboratory, Oak Ridge, TN, ²University of Tennessee, Knowille, TN
- MP 591 High Throughput, Label- and Immobilization-Free Screening of Human Milk Oligosaccharides against Lectins; Amr El-Hawiet^{1, 2}; Yajie Chen¹; Km Shams-Ud-Doha¹; Elena N. Kitova¹; John S. Klassen¹; **Alberta Glycomics Centre and Department of Chemistry,



MP 592 Native Mass Spectrometry Reveals Endogenous Stoichiometric Control Governing Protein Complexation in Metabolism: A Case Study of Glycolytic Enzyme Triosephosphate Isomerase; Luis F. Schachner¹; Benjamin Des Soye²; Nicole A Haverland²; Josiah Hutton²; Owen Skinner²; Michael Jewett²; Philip Compton²; Neil L Kelleher²; **Northwestern University, Evanston, IL; **Northwestern University, Evanston, IL

PROTEOMICS: NEW APPROACHES 593 - 632

- MP 593 Large-scale Characterization and Quantitation of Citrullinated Proteins Involved in Restenosis by HCD Product Ion Triggered EThcD Mass Spectrometry;

 Yatao Shi¹; Zhengwei Chen²; Qing Yu³; Bowen Wang⁴; Matthew Glover⁵; Xudong Shi⁵; Lian-wang Guo⁴; Craig K. Kent⁴; Lingjun Li⁵.7; ¹, Madison, Wisconsin; ²Chemistry Department, University of Wisconsin Madison, Madison, WI; ³Pharmacy School, University of Wisconsin-Madison, Madison, WI; ⁴Davis Heart and Lung Research Institute, The Ohio State University, Columbus, OH; ⁵School of pharmacy, University of Wisconsin Madison, Malison, Maison, WI; ⁵Department of Surgery, University of Wisconsin-Madison, Madison, WI; ¹Department of chemistry, University of Wisconsin Madison, Madison, Madison, Madison, Madison, MI
- MP 594 MS-compatible Subcellular Fractionation Protocol based on Phase Transfer Surfactants; Takeshi Masuda¹; Naoyuki Sugiyama²; Sumio Ohtsuki¹; Yasushi Ishihama²; ¹Kumamoto University, Kumamoto, Japan; ²Kyoto University, Kyoto, Japan
- MP 595 A Proteomics Approach to Characterize Trace Host Cell Protein Impurities in Drug Substance and Guide Purification Process Development; Yu Zhou¹; Sushmita Mimi Roy¹; ¹BioMarin Pharmaceutical Inc.. Novato, CA
- MP 596 Proteomic Analysis Identifies Novel Regulators of the ade6-M26 Meiotic Recombination Hotspot; Aaron Storey¹; Stephanie Byrum¹; Mari K. Davidson¹; Alan J Tackett¹; Sam Mackintosh¹; Wayne P. Wahls¹; ¹University of Arkansas for Medical Sciences, Little Rock, AR
- MP 597 Microfluidic Nanoliter Sample Preparation Enables
 Deep Proteome Analysis of 10 Cells; Ying Zhu¹; Paul D
 Piehowski²; Rui Zhao²; Yufeng Shen²; Ronald J Moore²;
 Weijun Qian²; Richard D. Smith²; Ryan Kelly²; ¹Pacific
 Northwest National Laboratory, Richland, WA; ²Pacific
 Northwest National Laboratory, Richland, WA
- MP 598 Epitope Identification and Affinity Quantification of ßAmyloid Specific Antibodies using Online SPR-Biosensor-ESIMS; Loredana Mirela Lupu^{1, 2}; Hendrik Rusche^{3, 4}; Zdenek Kukacka³; Yannick Baschung^{2, 3}; Marry Murphy⁵; Jeff Bornheim⁵; Michael Przybylski^{3, 4};

 1 Steinbeis Center for Biopolymer Analysis & Biomedical Mass Spectrometry, Ruesselsheim am Main, Germany;
 2 Proteom Zentrum Röstock, Institut für Immunologie, Universitätmedizin Röstock, Rostock, Germany;
 3 Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim am Main, Germany;
 4 University of Konstanz, Department of Chemistry, Konstanz, Germany;
 5 Reichert-Ametek Technologies, Buffalo, NY
- MP 599 Database Independent Protein Sequencing (DiPS)
 Enables Full-Length de-novo Protein and Antibody
 Sequence Determination; Alon Savidor¹; Rotem Barzilay¹;
 Dalia Elinger¹; Yosef Yarden²; Moshit Lindzen²; Alexandra
 Gabashvili¹; Ophir Adiv Tal¹; Yishai Levin¹; ¹The Nancy and
 Stephen Grand Israel National Center for Personalized
 Medicine, Weizmann Institute of Science, Rehovot, Israel;

 2Department of Biological Regulation, Weizmann Institute of

- Science, Rehovot, Israel
- MP 600 Optimization of a Promising Sample Preparation Protocol, Tube-Gel, for High Throughput Quantitative Proteomics; Leslie Muller¹; Luc Fornecker¹; Alain Van Dorsselaer¹; Sarah Cianferani¹; Thierry Rabilloud²; Christine Carapito¹; ¹Laboratoire de Spectrométrie de Masse BioOrganique, University of Strasbourg, Strasbourg, France; ²Laboratoire de Chimie et Biologie des Métaux, UMR 5249, iRTSV/LCBM, CEA, Grenoble, France
- MP 601 'Boxcar' Method Enables Single Shot Proteomics at a Depth of 10,000 Proteins in 100 Minutes on a Hybrid Quadrupole-Orbitrap Instrument; Florian Meier¹; Philipp E Geyer¹.²; Juergen Cox¹; Matthias Mann¹.²; ¹Max-Planck Institute of Biochemistry, Martinsried, Germany; ²NNF Center for Protein Research, Copenhagen, Denmark
- MP 602 Ion 'Supercharging' for Improving Bottom-Up
 Protein Analysis by Liquid-Chromatography Mass
 Spectrometry; Muhammad Zenaidee¹; William A. Donald²;
 Mark J. Raftery³; Sydney Liu Lau³; ¹, Kensington, NSW;

 ²University of New South Wales, Sydney, Australia;

 ³Bioanalytical Mass Spectrometry, Sydney, NSW
- MP 603 Scanning the Human Proteome for Multi-cistronic Genes; Samuel Smukowski¹; Xiaofei Du²; Daniel PH Pastor²; Jack D Godfrey²; Eshaan Rao²; Christopher M Gomez²; Jeffrey N Savas³; ¹Northwestern University, Chicago, IL; ²University of Chicago, Chicago, IL; ³Northwestern University, Chicago, IL
- MP 604 Isolated Pseudomonas aeruginosa from Mining Site:
 Proteome Changes Due to the Copper; Cristiano
 José de Andrade^{1, 2}; Meriellen Dias^{1, 2}; Lidiane Maria de
 Andrade^{1, 2}; Camila Delarmelina³; Marta Cristina Teixeira
 Duarte³; Maria Anita Mendes^{1, 2}; Claudio Augusto Oller do
 Nascimento^{1, 2}; ¹Universidade de São Paulo USP, Sao
 Paulo, South America; ²Dempster Mass Lab- POLI- USP,
 Sao Paulo, Brazil; ³Chemical, Biological and Agricultural
 Pluridisciplinary Research Center (CPQBA); University of
 Campinas Brazil. Campinas. Brazil
- MP 605 Diethylaminoethyl Sepharose (DEAE-Sepharose)
 Microcolumn for Glycopeptides Enrichment; He Zhu¹;
 Cheng Ma²; Peng George Wang²; ¹, Atlanta, GA; ²Georgia
 State University, Atlanta, GA
- MP 606 Analysis of Specific Synaptic Proteomes in Rodent Models of Autism Spectrum Disorder; Yi-Zhi Wang¹; Samuel N Smukowski¹; Kira A Cozzolino¹; Jeffrey N Savas¹; ¹Northwestern University, Chicago, IL
- MP 607 Proteome-wide Characterization of Metabolic Drugs AlCAR and Metformin by Thermal Shift Assays;

 Katherine A Overmyer¹; Harald Marx¹; Alex S Hebert¹;

 Michael S Westphall¹; Joshua J. Coon¹; ¹University of Wisconsin Madison, Madison, WI
- MP 608 Comparison of Proteomic Profile of the Aspergillus niger Fungus (ATCC 11414 and Savage) Growing in Presence of Copper.; Meriellen Dias^{1, 2}; Lidiane Maria de Andrade^{1, 2}; Enrique Eduardo Rozas Sanchez^{1, 2}; Maria Anita Mendes^{1, 2}; *1Universidade de São Paulo USP, Sao Paulo, South America; *2Dempster Mass Lab- POLI- USP, Sao Paulo, Brazil
- MP 609 SAVControl: A Computational Framework for Quality Control of Variant Peptide Detection in Shotgun Proteomics; Xinpei Yi¹; Bo Wang²; Zhiwu An¹; Fuzhou Gong¹; Jing Li²; Yan Fu¹; ¹Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China; ²Department of Bioinformatics and Biostatistics, School of Life Sciences and Biotechnology, Shanghai Jiao Tong University, Shanghai, China
- MP 610 Automated Reproducible High-Throughput Proteome Analysis using Magnetic HILIC Microparticles;

 Stoyan Stoychev¹; Previn Naicker¹; Isak Gerber¹; Sipho Mamputha¹; Justin Jordaan²; ¹CSIR Biosciences, Pretoria, Gauteng; ²ReSyn Biosciences, Pretoria, South Africa



- MP 611 Trinity P1 Mixed Mode Chromatography Enables
 Streamlined MS Compatible Orthogonal Peptide
 Fractionation; Peng Yu¹; Mathias Wilhelm¹; Daniel P
 Zolg¹; Xuefei Sun²; Andreas Huhmer³; Bernhard Kuster¹·
 4.5; ¹Technical University of Munich, Freising, Germany;
 ²Thermo Fisher Scientific, Sunnyvale, CA; ³Thermo Fisher
 Scientific, San Jose, CA; ⁴Center for Integrated Protein
 Science Munich, Freising, Germany; ⁵Bavarian Center for
 Biomolecular Mass Spectrometry, Freising, Germany
- MP 612 Project Julienne: Improved Quantitative Detection of Protein Isoforms, Post Translational Modifications and Total Proteome Coverage; Thomas Clark¹; Greg Stacey¹; Nikolay Stoynov¹; Leonard Foster¹; ¹UBC, Vancouver, BC, Canada
- MP 613 High-throughput Orthogonal Validation of Plasma
 Membrane-Associated Networks by Differential
 Centrifugation; Emmanuel E Ojefua¹; Vincent C Chen¹;

 ¹Brandon University, Department of Chemistry, Brandon, MB
- MP 614 The Loss-Less and Nano-Flow SPIDER Fractionator for High Sensitivity, High Coverage Proteomics; Nils A. Kulak¹; Philipp E Geyer²; Garwin Pichler¹; Matthias Mann²; ¹PreOmics, Planegg/Martinsried, Bavaria; ²Max Planck Institute of Biochemistry, Martinsried, Germany
- MP 615 Progress in Electrochemical Reduction of Disulfide Bonds in MS Proteomics; <u>Jean-Pierre Chervet</u> 1; Pablo Sanz de la Torre¹; Hendrik-Jan Brouwer¹; Nico Reinhoud¹; Martin Eysberg²; ¹Antec Scientific, Zoeterwoude, Netherlands; ²Antec Scientific (USA), Boston, MA
- MP 616 Highly Selective and Large Scale Mass Spectrometric Analysis of 4-Hydroxynonenal Modification via Fluorous Derivatization and Fluorous Solid-Phase Extraction; Haojie Lu; , Shanghai, Shanghai
- MP 617 Creation and Improvement of Software Tools for Kinetic Proteomics Analysis; Bradley Naylor¹; Richard H Carson²; Marcus Hadfield²; John C Price²; 'Brigham Young University, Provo, UT; 'Brigham Young University, Provo, UT
- MP 618 Infrared Laser Desorption Capture Coupled with Ion Mobility-Mass Spectrometry and Chemometric Deconvolution for Analysis of Biological Tissues; Michael E. Pettit¹; Raul A. Villacob¹; Matthew R. Brantley¹; Fabrizio Donnarumma²; Kermit K. Murray²; Touradj Solouki¹;

 *Baylor University, Waco, TX; *Louisiana State University, Baton Rouge, LA*
- MP 619 Affi-BAMS: A High Throughput Immunoaffinity Enrichment Assay with Detection by LAESI MS and MALDI MS; Callee Walsh¹; Erin H. Seeley¹; Vladislav Bergo²; ¹Protea Biosciences, Morgantown, WV; ²Adeptrix Corp, Beverly, MA
- MP 620 Evaluating the Performance of an Automated, Inexpensive Hood Robot by Developing an Open-Source, Python-Scripted In-Gel Digestion Workflow for Bottom-Up Proteomics; Roasa Mehmood¹; Ryan D. Leib¹; Allis S. Chien¹; Christopher M. Adams¹; ¹Stanford University Mass Spectrometry, Stanford, CA
- MP 621 Reference Materials for Proteomic Investigations; <u>David M Bunk</u>¹; Ashley Beasley-Green²; Candice Johnson²; Lisa E. Kilpatrick²; Mark S. Lowenthal²; Karen W. Phinney²;

 ¹NIST, Gaithersburg, MD; ²National Institute of Standards and Technology, Gaithersburg, MD
- MP 622 Proteome Signal Amplification Using TMT Multiplexing and a Carrier/Reference Strategy; Paul M. Stemmer¹; Nicholas J. Carruthers²; Joseph A. Caruso¹; D. Randy Armant¹; Sascha Drewlo¹; ¹Wayne State University, Detroit, MI; ²Wayne State University, Detroit, MI
- MP 623 A Synergistic Approach: Combining Label-Free Proteomics and MRM Techniques in a Single Method to Advance Health Care; Bruce E. Wilcox¹; Ryan W. Benz¹; Phong Cun¹; William F. Smith¹; ¹Applied Proteomics, San Diego, CA

- MP 624 Investigating Protease Multiplexing to Improve Sequence Coverage in Bottom-Up Proteomics; Jan Schrader¹; Assa Yeroslaviz¹; Anja Wehner¹; Juergen Cox¹; Nagarjuna Nagaraj¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany
- MP 625 Identification of High pl-High Charge Peptides Using Capillary Electrophoresis Mass Spectrometry; Tatiana

 N. Boronina 1; Robert N. Cole²; Robert N. O'Meally¹; ¹Johns Hopkins School of Medicine, Baltimore, MD; ²Johns Hopkins University School of Medicine, Baltimore, MD
- MP 626 **Mapping of T-Cell Surface N-Glycosylation**; Paul Kodama¹; Mirna Mujacic¹; Tom Kowski¹; <u>Ken Prentice</u>¹; *¹Juno Therapeutics, Seattle, WA*
- MP 627 Capillary Electrophoresis Mass Spectrometry
 Analysis of Histatin 5 and Its Analogs; Yan Wang¹;
 Svetlana P. Ikonomova²; Amy J. Karlsson²; Fahim C.
 Zarrin³; James Xia³; ¹Proteomics Core Facility, University of
 Maryland, College Park, MD; ²Department of Chemical and
 Biomolecular Engineering, University of Maryland, College
 Park, MD; ³CMP Scientific, Corp., Brooklyn, NY
- MP 628 An Automated Online Sample Preconcentration
 Platform for Bottom-Up Proteomics by Capillary
 Electrophoresis-Mass Spectrometry; Zhenbin Zhang¹;
 Elizabeth Peuchen¹; Norman J Dovichi¹; ¹University of Notre
 Dame, Notre Dame, IN
- MP 629 Open Sesame: Proteomics and Lipidomics of Oil and Fat Illuminants from Archaeological Lamps; Anna Shevchenko¹; Yimin Yang²; Andrea Schuhmann¹; Bo Wang³; Changsui Wang²; Andrej Shevchenko¹; ¹MPI of Mol Cell Biology and Genetics, Dresden, Saxony; ²University of Chinese Academy of Sciences, Beijing, China; ³Xinjiang Uygur Autonomous Region Museum, Ürümchi, China
- MP 630 Characterizing the Inhibitory Postsynaptic Proteome Directly from Mouse Brain Tissue using *in vivo* BiolD Proximity Labeling and label Free Quantitation; Erik J. Soderblom¹; Akiyoshi Uezu²; M. Arthur Moseley¹; Scott H. Soderling²; **Proteomics and Metabolomics Shared Resource, Duke University School of Medicine, Durham, NC; **Department of Cell Biology, Duke University School of Medicine. Durham. NC
- MP 631 Proteomic of microalgaeChlorella kessleri Cultivation under Stressed Condition Induced by Copper Ions;

 <u>Lidiane Maria Andrade</u>^{1, 2}; Meriellen Dias^{1, 2}; Cristiano José Andrade^{1, 2}; Maria Anita Mendes^{1, 2}; Claudio Augusto Oller do Nascimento^{1, 2}; *¹Universidade de São Paulo USP, Sao Paulo, South America; ²Dempster Mass Lab- POLI- USP, Sao Paulo, Brazil*
- MP 632 Evaluation of a Modified Q Exactive HF for Shotgun Proteomics; Christian Kelstrup¹; Dorte B Bekker-Jensen¹; Tabiwang Arrey²; Alexander Harder²; Jesper V. Olsen¹;

 ¹CPR, University of Copenhagen, Copenhagen, Denmark;
 ²Thermo Fisher Scientific, Bremen, Germany

PROTEOMICS: QUANTITATIVE I 633 - 652

- MP 633 Utilizing an Accurate Mass and Retention Time Library to Facilitate Bio-Marker Discovery in the Human Cerebrospinal Fluid Proteome; Cole Michel¹; Richard Reisdorph¹; Enrique Alvarez¹; Vadiraja Bhat²; Paul Goodley³; Nichole Reisdorph¹; ¹University of Colorado Anschutz Medical Campus, Aurora, CO; ²Agilent Technologies, Inc., Wilmington, DE; ³Agilent Technologies, Inc., Wilmington, DE
- MP 634 Relative Protein Quantification of a Contrived Mixture with Fusion MS2 and MS3-SPS TMT10-Plex Data;
 Candace R. Guerrero¹; Todd W. Markowski²; Alan J.
 Zimmerman²; Kristin L. M. Boylan¹; Susan K. Van Riper¹;
 Leeann Higgins ²; Amy P. N. Skubitz¹; Timothy Griffin¹;
 ¹University of Minnesota, Minneapolis, MN; ²University of Minnesota, St. Paul, MN



- MP 636 Post Immuno-Enrichment On-Bead Digestion for Protein Quantification using immuno-MALDI (iMALDI);

 Huiyan Li¹; Robert Popp¹; Bjorn Frohlich¹; Christoph H.

 Borchers¹.²; ¹University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada
- MP 637 Absolute Quantification using Targeted Mass Spec Assays with Panorama and Skyline; Nicholas Shulman¹; Josh Eckels²; Vagisha Sharma¹; Daniel S. Spellman³; Kristin Wildsmith⁴; Shadi Toghi Eshghi⁴; Jacob D Jaffe⁵; Michael J MacCoss¹; Brendan MacLean¹; ¹University of Washington, Department of Chemistry, Seattle, WA; ²LabKey, San Diego, CA; ³Merck & Co., West Point, PA; ⁴Genentech, Inc, South San Francisco, CA; ⁵Broad Institute, Cambridge, MA
- MP 638 SPEAQ: A Software Tool for Absolute Protein
 Quantitation Based on Peptide Quantitative Efficiency
 Learning; Qiang Zhi Gao¹; Cheng Chang²; Yan Fu¹;
 Hong Xiao Qian²; Ping Yun Zhu²; ¹National Center for
 Mathematics and Interdisciplinary Sciences, Key Laboratory
 of Random Complex Structures and Data Science,
 Academy of Mathematics and Systems Science, Chinese
 Academy of Sciences, Beijing, China; ²State key Laboratory
 of Proteomics, National Center for Protein Sciences Beijing,
 Beijing Proteome Research Center, National Engineering
 Research Center for Protein Drugs, Beijing, China
- MP 639 Elaboration towards the Regulatory Mechanism of Phase Shift in Clostridium acetobutylicum with a Combinational Strategy of Omics; Nannan Kong^{1, 2}; Jingjing Zhao³; Qingfei Pan¹,²; Xiaomin Lou¹; Jin Zi²; Lin Wu¹; Yan Ren²; Quanhui Wang¹; Siqi Liu²; ¹Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China; ²BGI-Shenzhen, Shenzhen, China; ³Diabetes and Obesity Center, U of L, Louisville, KY
- MP 640 A Silk Road to Modern Translational Proteomics SOPs based Comprehensive Proteome Profiling and Reproducible Quantitation; Yue Xuan¹; David Sarracino²; Sebastien Gallien³; Scott Peterman²; Pedro Navarro¹; Heather Sumner⁴; ¹Thermo Fisher Scientific, Bremen, Germany; ²Thermo Fisher Scientific BRIMS Center, Cambridge, MA; ³Thermo Fisher Scientific, Courtaboeuf, France; ⁴Thermo Fisher Scientific, San Jose, CA
- MP 641 **Dual and Triple Reporter Ion Combinatorial Isobaric Reagents: 16-Plex and Beyond**; <u>Craig Braun</u>^{1, 2}; Brian K Erickson^{2, 3}; Gregory H Bird⁴; Steve P Gygi³; <u>1Havard Medical School, Boston, MA</u>; <u>2IQ Proteomics, LLC, Brookline, MA</u>; <u>3Harvard Medical School, Boston, MA</u>; <u>4Dana Farber Cancer Institute, Boston, MA</u>
- MP 642 Isobaric Tag-Based Multi-Dimensional Quality
 Assessment Standards for SPS-MS3 Analyses:
 Maximizing Quantifications, while Minimizing
 Interference; Joao A Paulo¹; Steven P. Gygi¹; ¹Harvard
 Medical School, Boston, MA
- MP 643 Multiplex Quantitative Analysis using NeuCode SILAC Metabolic Labeling of Signaling Protein Targets; Ryan Bomgarden¹; Kratika Singhal¹; Bhavin Patel¹; Rosa Viner²; Seema Sharma³; Juergen Cox⁴; Joshua Coon⁵; JOHN C. ROGERS¹; ¹Thermo Fisher Scientific, Rockford, IL; ²Thermo Fisher Scientific, San Jose, CA; ⁴Max Planck Institute of Biochemistry, Martinsried, Germany; ⁵University of Wisconsin, Madison, WI
- MP 644 Combined Proteomic and RNA Expression Analysis of Laser Ablation Extracted Tissue; Chao Dong¹; Kelin Wang¹; Fabrizio Donnarumma¹; Scott W. Herke¹; Michael E.

University, Baton Rouge, LA; ²Baylor University, Waco, TX

MP 645

Optimization of Multi-notch MS3 Technique for Accurate
Quantification with Dimethyl Amino Acid-based Isobaric
Tags; <u>Yusi Cui</u>¹; Qing Yu²; Lingjun Li^{1,2}; ¹Department of
Chemistry, University of Wisconsin-Madison, Malison, WI;
²School of Pharmacy, University of Wisconsin-Madison,
Madison, WI

Pettit²; Touradj Solouki²; Kermit K. Murray¹; ¹Louisiana State

- MP 646 A Rapid Digestion Protocol for the Preparation of Complex Proteomic Samples; Kevin Cook¹; Sergei Saveliev¹; Marjeta Urh¹; Michael M Rosenblatt¹; ¹Promega Corporation, Madison, WI
- MP 647 Active Enzyme Characterization using a Two-Dimensional IsobaricLabeling Activity-Correlated Quantitative Proteomics Platform(2D-TMT-ACPP); Hongyan Ma¹; Toni Woodard²; Si Wu²; ¹Oklahoma University, Norman, OK; ²University of Oklahoma, Norman, OK
- MP 648 IonStar-Mine: Reproducible, Fractionation-Free Measurement of 8000+ Unique Proteins in 100
 Biological Samples with High Accuracy, Precision and <1% Missing Data; Shichen Shen¹; Jun Li¹; Xiaomeng Shen²; Chengjian Tu¹; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Amgen, South San Francisco, CA
- MP 649 Measuring Mitochondrial Protein Expression by Repeated Reinterrogation of LC-High Resolution Full Scan MS Datasets; Caroline Kinter¹; Zachary Young¹; Luke Szweda¹; Michael Kinter¹; Oklahoma Medical Research, Oklahoma City, OK
- MP 650 MIKE: A Peptide-Terminal Labeling Strategy for Precision Quantitative (meta)Proteomics; <u>Jacob</u> <u>Waldbauer</u>¹; Lichun Zhang¹; Adriana Rizzo¹; ¹University of Chicago, Chicago, IL
- MP 651 Novel Tagging Strategies for a Modified cPILOT Workflow with Higher Sample Multiplexing Capabilities;

 Bushra Amin¹; Renã A.S. Robinson¹; ¹University of Pittsburgh, Pittsburgh, PA
- MP 652 **Method for Measuring Protein Digestion Efficiency**; <u>Carmen Fernandez-Metzler</u>¹; Bonnie Baker¹; Richard King¹; ¹PharmaCadence Analytical Services, LLC, Hatfield, PA

PROTEOMICS: TOP DOWN ANALYSIS I 653 - 665

- MP 653 Online nano-2DLC Meets Top-Down MS: WCX/a×m/
 RPLC UVPD-HRMS Analysis of Histone Proteoforms;

 Andrea Gargano¹; Jared B Shaw²; Mowei Zhou²; Nikola
 Tolic²; Thomas Fillmore²; Ronald J Moore²; Ljiljana PasaTolic²; ¹Center for Analytical Chemistry Amsterdam,
 Amsterdam, Netherlands; ²Environmental Molecular
 Sciences Laboratory, Pacific Northwest National Laboratory,
 Earth and Biological Sciences Directorate. Richland. WA
- MP 654 Characterization of Histone Proteoforms Using Linear and Nonlinear Ion Mobility Separations with Electron Transfer Dissociation; Pavel Shliaha¹; Matthew Baird²; Mogens Nielsen¹; Vladimir Gorshkov¹; Andrew P. Bowman²; Julia L. Kaszycki²; Gordon A Anderson³; Todd D. Williams⁴; Ole N. Jensen¹; Alexandre A. Shvartsburg²; ¹University of Southern Denmark, Odense, Denmark; ²Wichita State University, Wichita, KS; ³GAA Custom Engineering, LLC, Benton City, WA; ⁴University of Kansas, Lawrence, KS
- MP 655 Automatic Selection of Discriminative Top-Down
 Mass Spectra with Diagno-Top: Application to the
 Differentiation of Bacterial Pathogens; Diogo Borges
 Lima¹; Mathieu Dupré¹; André R F Silva²; Paulo Costa
 Carvalho²; Julia Chamot-Rooke¹; ¹Structural Mass
 Spectrometry and Proteomics Unit CNRS USR2000 Mass
 Spectrometry for Biology, Paris, France; ²Computational
 Mass Spectrometry & Proteomics Group, Carlos Chagas
 Institute, Curitiba, Paraná, Brazil, Curitiba, Brazil
- MP 656 "Active" Fungal Classification Utilizing Top-Down Proteomics; Toni Woodard¹; Zhe Wang¹; Hongyan Ma¹;



- Monica Stevenson¹; Si Wu¹; ¹University of Oklahoma, Norman. OK
- MP 657 **Top-down Proteomics of Sarcomeres in Muscle- related Diseases**; <u>Wenxuan CAI</u>¹; Zachery R Gregorich¹;
 Ziqing Lin¹; Zachary L Hite¹; Takushi Kohmoto¹; Ying Ge¹;

 ¹University of Wisconsin-Madison, Madison, WI
- MP 658 High-Throughput Screening of Proteoform-Specific Binding of a Chemical Library Using a 24-plex Emitter Array Chip; Geuncheol Gil¹; Pan Mao¹; Daojing Wang¹; ¹Newomics Inc., Emeryville, CA
- MP 659 Increasing Dynamic Range and Sample Insight for Top-Down Proteoform Profling Analysis Using Data-Dependent MS/MS Experiments; Pierre-Olivier Schmit¹; Hans J.C.T. Wessels²; Marshall W. Bern³; Stephanie Kaspar-Schoenefeld⁴; Gary Kruppa⁵; ¹Bruker France, Wissembourg, France; ²Radboud Proteomics Center, Radboud University, Nijmegen, Netherlands; ³Protein Metrics Inc., San Carlos, CA; ⁴Bruker Daltonik GmbH, Bremen, Germany; ⁵Bruker Daltonics, Billerica, MA
- MP 660 A Multi-Modal Proteomics Strategy for Characterizing in vitro and in vivo p53 Modforms; Caroline J DeHart¹; Luca Fornelli¹; Deepesh Agarwal²; Jacek W Sikora¹; Dan Lu²; Philip D Compton¹; Paul M Thomas¹; Galit Lahav²; Jeremy Gunawardena²; Neil L Kelleher¹; ¹Proteomics Center of Excellence, Northwestern University, Evanston, IL; ²Harvard Medical School, Boston, MA
- MP 661 Top-down Online Electrospray Nano-Liquid Chromatography Orbitrap tandem Mass Spectrometry for Large Protein Identification in Cell Lysates; Atim Atte Envenihi¹; Jason Neil²; Mark Fisher¹.³; ¹ARUP Laboratories, Salt Lake City, UT; ²Thermo Fisher Scientific, Cambridge, Massachusetts; ³University of Utah, Salt Lake City, UT
- MP 662 Simultaneous Label-free Quantitation of Proteoforms, Proteoform Ratios, and Total Protein up to 80kDa Split across Physiochemical Multidimensional Space; John R Corbett^{1, 2}; Daniel A Plymire¹; Casey E Wing¹; William S Phipps¹; Steven M Patrie^{1, 2}; ¹UT Southwestern, Dallas, TX; ²UT Dallas, Richardson, TX
- MP 663 Higher Resolution in Top-Down Proteomics of Histones using Submicrometer Particles and Slip Flow; Yiyang Zhou¹; Ximo Zhang¹; Luca Fornelli²; Philip Compton²; Neil L Kelleher²; Mary Wirth¹; ¹Purdue University-Department of Chemistry, West Lafayette, IN; ²Northwestern University, Evanston, IL
- MP 664 Intelligent Data Acquisition Strategies to Generate a Comprehensive Map of Intact Proteoforms in Budding Yeast using Deep Top-Down Sequencing; Luca Fornelli¹; Kristina Srzentio¹; Timothy K. Toby¹; Bryan P. Early¹; Peter F. Doubleday¹; Ryan T. Fellers¹; Philip D. Compton¹; Neil L. Kelleher¹; *Northwestern University, Evanston, IL
- MP 665 Elucidation of Experimental Fragmentation Parameters
 Required for High-Throughput Proteoform Interrogation
 of Myelin Basic Protein; William S Phipps¹; John R
 Corbett¹; Casey E Wing¹; Lacey Purdue¹; Daniel A Plymire¹;
 Steven M Patrie¹; **Inniversity of Texas Southwestern
 Medical Center, Dallas, TX

SMALL MOLECULES: QUANTITATIVE ANALYSIS I 666 - 689

- MP 666 Chemical Analysis of ENDS vapor by LC/MS/MS-based Methodology; Berk Oktem¹; Charles A. Moran¹; Samanthi I Wickramasekara¹; ¹US FDA, Silver Spring, MD
- MP 667 Evaluation of THERMAL HISTORY of THERMOPLASTIC RESINS by THERMAL DESORPTION and PYROLYSIS COMBINED with DART-MS (TDP/DART-MS); Chikako Takei'; Kenichi Yoshizawa'; 'BioChromato, Inc., Fujisawa, Japan
- MP 668 A Novel Approach to Minimize the Matrix Effect in the LC-MS/MS Method for Quantitation ofN-(2-Hydroxyethyl) succinimide in HumanUrine; Dawei Zhou¹; Shaoting

- Zhang¹; Mohamed Osman¹; Xinping Fang¹; ¹WuXi AppTec, Plainsboro, NJ
- MP 669 HPLC Tandem Mass Spectrometric Quantitation of DNA-binding Polyamides in Cell Lysate; Shanshan Guan¹; Maria José Scuderi¹; Benjamin J. Bythell¹; James K. Bashkin¹; ¹University of Missouri-St. Louis, St. Louis, MO
- MP 670 Selective Derivatization of Penicillamine Using DTNB: Improved Matrix Stability and LC-MS/MS Sensitivity;

 <u>Laurence Mayrand Provencher</u>¹; Vinicio Vasquez¹; Milton Furtado¹; Anahita Keyhani¹; **IAltasciences, Laval, QC, Canada
- MP 671 Screening and Quantification of Unapproved Dietary Supplements using Liquid Chromatography with Quadrupole-Orbitrap Mass Spectrometry; Flavia

 Morales-Garcia¹; Douglas M. Monroe¹; Judith Hillegas¹;

 Tracy A. Majkol¹; Joan M. Nandrea¹; Fenhong Song²; Aref El-Demerdash¹; ¹FDA, Lenexa, KS; ²FDA, Rockville, MD
- MP 672 Quantitative Analysis of Antiarrhythmic Drugsin Human PlasmaUsing a High Performance Triple Quadrupole Mass Spectrometer; Keeley Murphy 1; Claudia Martins2; Jonathan Josephs2; 1Thermo Fisher Scientific, San Jose, CA; 2ThermoFisher, San Jose, CA
- MP 673 Simultaneous Analysis of Emtricitabine, Tenofovir, and Efavirenz in Mouse Plasma, Amniotic Fluid, and Fetus Homogenate by UPLC-MS/MS; Brenda L. Fletcher¹; Melanie A. Rehder Silinski¹; Reshan A. Fernando¹; Veronica G. Robinson²; Suramya Waidyanatha²; ¹RTI International, Research Triangle Park, NC; ²Division of National Toxicology Program, NIEHS, Research Triangle Park, NC
- MP 674 Tenofovir and Emtricitabine Quantification in Cervicovaginal Fluid: Collection Device Considerations in Support of Clinical Trials; Teresa L. Parsons¹; Lauren A. Seserko¹; Mark A. Marzinke¹; ¹Johns Hopkins University School of Medicine, Baltimore, MD
- MP 675 Resin-Coated Proppant Analysis for Formaldehyde Content by GC-MS Headspace, GC-VUV, and HPLC; Jamie Schenk¹; Doug D. Carlton Jr. ¹.²; Jonathan Smuts³; Ty Hanna⁴; Danny Durham⁴; Kevin A. Schug¹; ¹University of Texas at Arlington, Arlington, TX; ²CLEAR, Arlington, TX; ³VUV Analytics, Inc., Austin, TX; ⁴Apache Corporation, Houston. TX
- MP 676 Method Conversion Tool between Instruments for Huge-Multiple MRM Transitions in LC-MS/MS Adopting the Conversion Factor of Collision Energy Voltage;

 Akane Yamamoto¹; Kazutaka Ikeda²; Yoshiki Tainaka¹; Jun Watanabe¹; ¹Shimadzu Corporation, Kyoto, Japan; ²RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
- MP 677 Highly Sensitive Simultaneous Quantitative Analysis of Estrone and Equilin from Plasma using LC/MS/MS;

 Ashutosh Shelar¹; Shailendra Rane¹; Shailesh Damale¹;
 Rashi Kochhar¹; Purushottam Sutar¹; Deepti Bhandarkar¹;
 Anant Lohar¹; Ajit Datar¹; Pratap Rasam¹; Jitendra Kelkar¹;

 ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India
- MP 678 Analysis of Glucosamine in Functioal Foods by LC-MS/MS; Shin Yong Woon; Ministry of Food & drug Safety, Cheongju, Chungcheongbuk-do
- MP 679 LC/MS/MS Analysis of Fentanyl and Related Analogs Using Biocompatible Solid Phase Microextraction;

 <u>Candace Price</u>¹; Craig Aurand¹; Sara Smith¹; Emily Barrey¹;

 **Image: Millipore Sigma, Bellefonte, PA*
- MP 680 Validation of a LC-MS/MS Method for Quantification of Digoxin in Triton X-100 Fortified Human Urine; Damon Papac¹; Brian M Murray¹; James Vannicola¹; Eugene F Miller¹; Debra J Beck¹; Kristine Wagner-Caruso¹; ¹/con Plc, Whitesboro, NY
- MP 681 Bionalysis of Fluticasone Propionate in Rabbit Plasma and Nasal/Sinus Tissue using Sensitive LC/MS/MS

 Methods; Patrick Lin¹; Bih-Hsiung Hsu¹; ¹PHARMout Lab, Sunnyvale, CA

MP 682	and Its Metabolites in Mouse Sera by LC-MS/MS with Chemical Derivatization; Shashank Gorityala¹; Shuming Yang²; Monica M Montano³; Yan Xu¹.²; ¹Department of Chemistry, Cleveland State University, Cleveland, OH; ²Case Comprehensive Cancer Center, Case Western Reserve University, Cleveland, OH; ³Department of
	Pharmacology, Case Western Reserve University, Cleveland. OH

- MP 683 Methods for the Determination of Drugs of Abuse in Oral Fluids Using an Automated Sample Preparation and uHPLC-MS/MS; Larry M Mallis¹; Brenna Espelien¹; Erich Valenzuela¹; Benjamin Moeller¹; Yongquan Lai¹; Jacob Jantzi¹; Ryan Sheeler¹; Philip Kuehl¹; Jacob McDonald¹; ¹Lovelace Biomedical, Albuquerque, NM
- MP 684 Capture Efficiency and Separation Performance of Dynamic pH Junction Focusing with Two On-Column Electrolyte Configurations in Capillary Electrophoresis Mass Spectrometry; Lingyu Wang¹; David D. Y. Chen¹;

 1 University of British Columbia, Vancouver, BC, Canada
- MP 685 A High Throughput UPLC-MS/MS Method for the Simultaneous Determination of Pravastatin and Rosuvastatin in Human Urine; Feng-Ming James Chang¹; Yuan-Shek Chen¹; T. Ben Hsu¹; ¹QPS, LLC, Newark, DE
- MP 686 Development of Combined LC-MS/MS Analysis for Citric Acid Cycle Intermediates, Acylcarnitines and Amino Acids; Rohan R Shah¹; Alisha House¹; Erica M Fatica¹; Yana Sandlers¹; ¹Cleveland State University, Department of Chemistry, Cleveland, OH
- MP 687 Quantitation of 25OH Vitamin D2/D3 in Serum by a New SLE Method Coupled with LC-MS/MS; Guotao Lu¹; Warren Chen¹; Wan Wang²; Suzi Qin²; Lei Yin²; ¹Bonna-Agela Technologies, Wilmington, DE; ²Bonna-agela Technologies Inc., Tianjin, China
- MP 688 Analysis of GSK525762 and Its Major Oxidative Metabolites in Human Plasma using Liquid Chromatography with Tandem Mass Spectrometric Detection; Zhilong Gong¹; Chineta Barksdale²; Kelly Connelly³; Omobola Oladipupo²; Eric Thomas²; ¹Covance Bioanalytical Svc, Indianapolis, IN; ²Covance, Indianapolis, IN; ³GlaxoSmithKline, Ware, UK
- MP 689 A Special Preparation to Improve Phosphocholine Determination in Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS); jing Tan¹; Chunyan Zhang¹; Jason Gek Leong Neo¹; Tania Setiawati¹; ¹Abbott Nutrition, Singapore

SYSTEMS BIOLOGY I 690 - 706

- MP 690 Web-Based Implementation of Kinase-Substrate Enrichment Analysis (KSEA) for Phosphoproteomics-Derived Kinase Activity Inference; Danica Wiredja^{1, 2}; Mehmet Koyutürk^{1,3}; Mark R. Chance^{1,2}; ¹Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH; ²Department of Nutrition, Case Western Reserve University, Cleveland, OH; ³Department of Electrical Engineering and Computer Science, Case Western Reserve University, Cleveland, OH
- MP 691 Protein Expressional Changes of Pseudomonas aeruginosa in Lactate-Supplemented Media; Yeni P.
 Yung¹; S Lee McGill²; Stephanie M. Cologna¹; Hui Chen¹;
 Ross P. Carlson²; Luke Hanley¹; ¹University of Illinois at Chicago, Chicago, IL; ²Montana State University, Bozeman, MT
- MP 692 Quantitative Proteomics of the Host-Pathogen Interplay duringSalmonellaTyphimurium Infection; Jennifer

 Geddes-McAlister¹; Felix Meissner¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany
- MP 693 Proteogenomic Landscape of Squamous Cell Lung
 Cancer; Paul A Stewart¹; Robbert JC Slebos¹; Eric A
 Welsh¹; Ling Cen¹; Yonghong Zhang¹; Zhihua Chen¹; Chia-

- Ho Cheng¹; Fredrik Pettersson¹; Anders Berglund¹; Guolin Zhang¹; Bin Fang¹; Victoria Izumi¹; Sean Yoder¹; Katherine Fellows¹; Yian Ann Chen¹; Jamie K Teer¹; Steven A Eschrich¹; John M Koomen¹; Eric B Haura¹; ¹Moffitt Cancer Center, Tampa, FL
- MP 694 Pharmacoproteomic Characterisation of Human Colon and rectal Cancer; Martin Frejno^{1, 2}; Riccardo Zenezini Chiozzi^{1, 3}; Mathias Wilhelm¹; Heiner Koch^{1, 4, 5, 6}; Runsheng Zheng¹; Susan Klaeger^{1, 5, 6}; Benjamin Ruprecht^{1, 7}; Chen Meng¹; Karl Kramer¹; Anna Jarzab¹; Stephanie Heinzlmeir¹, ^{5, 6}; Elaine Johnstone²; Enric Domingo^{2, 8}; David Kerr⁹; Moritz Jesinghaus¹⁰; Julia Slotta-Huspenina¹⁰; Wilko Weichert¹⁰; Stefan Knapp¹¹; Stephan M Feller^{12, 13}; Bernhard Kuster^{1,} ^{5, 7, 14}; ¹Chair of Proteomics and Bioanalytics, Technical University of Munich, Freising, Germany; 2Department of Oncology, University of Oxford, Oxford, UK; 3University of Rome, La Sapienza, Rome, Italy; 4Max Planck Institute of Biochemistry, Martinsried, Germany; 5German Cancer Consortium (DKTK), Munich, Germany; 6German Cancer Research Center (DKFZ), Heidelberg, Germany; ⁷Center for Integrated Protein Science Munich. Freising. Germany: 8Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, UK; 9Nuffield Division of Clinical Laboratory Sciences, University of Oxford, Oxford, UK; 10 Institute of Pathology, Technical University of Munich, Munich, Germany; 11 Institute of Pharmaceutical Chemistry, Goethe University, Frankfurt am Main, Germany; 12 Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, UK: 13 Institute of Molecular Medicine, Martin-Luther-University, Halle (Saale), Germany; 14Bavarian Center for Biomolecular Mass Spectrometry, Freising, Germany
- MP 695 Integration of Metabolomics Data with Kinetic Models for Dynamic Flux Analysis and the Inference of Biochemical Mechanisms; Zhen Qi; , Lexington, KY
- MP 696

 12-week Aerobic, Resistance, and Combined Training Shows Posttranslational Regulation of Skeletal Muscle in Younger and Older Adults; Matthew M. Robinson¹; Surendra Dasari²; Adam R. Konopka³; Matthew L. Johnson⁴; S. Manjunatha²; Raul R. Esponada⁵; Rickey E. Carter²; Ian R. Lanza²; K. Sreekumaran Nair²; ¹Oregon State University, Corvallis, OR; ²Mayo Clinic, Rochester, MN; ³Colorado State University, Fort Collins, CO; ⁴Dexcom, San Diego, CA; ⁵Sanford Health, Fargo, ND
- MP 697 Longitudinal Metaproteomics Analysis of Premature Infant Intestinal Microbiota Reveals Early-Life Microbial and Host Metabolic Functions; Weili Xiong¹; Chris T Brown²; Matthew B Rogers³; Michael J Morowitz³; Jillian F Banfield²; Robert L Hettich¹; *10ak Ridge National Laboratory, Oak Ridge , TN; *2Department of Earth and Planetary Science, UC, Berkeley, CA; *3School of Medicine, University of Pittsburgh, Pittsburgh, PA
- MP 698 Infrared Laser Ablation Sample Transfer with Conserved Biological Function; Kelin Wang¹; Matthew D. Baldone¹; Fabrizio Donnarumma¹; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA
- MP 699 Inferring Metabolic Function across Wildly Variable Gut Metaproteomes Derived from Crohn's Disease Patients Post Resection Surgery; J. Alfredo Blakeley-Ruiz¹; Alison R Erickson²; Weili Xiong³; Claire M. Fraser⁴; Robert L Hettich³; ¹University of Tennessee, Knoxville, TN; ²Harvard Medical School, Boston, MA; ³Oak Ridge National Laboratory, Oak Ridge, TN; ⁴University of Maryland School of Medicine, Baltimore, MD
- MP 700 **ProHits-viz: A Suite of Web-Tools for Visualizing**Interaction Proteomics Data; James D R Knight¹;
 Hyungwon Choi²; Brian Raught³; Alexey I Nesvizhskii⁴;
 Anne-Claude Gingras^{1, 5}; ¹Lunenfeld-Tanenbaum Research
 Institute, Toronto, Ontario; ²National University of Singapore,
 Singapore, Singapore; ³Princess Margaret Cancer Centre,
 Toronto, ON, Canada; ⁴Department of Pathology, University



- of Michigan, Ann Arbor, MI; ⁵Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada
- MP 701 Diagnosis of Ecosystem Adaptive Responses by Analysis of Hundreds of Peptide Biomarkers in the North Atlantic Ocean using Targeted Metaproteomics;

 Mak Saito¹; Matthew McIlvin¹; Dawn Moran¹; Luis Valentin¹; Romain Huguet²; Shannon Eliuk²; Graeme McAlister²; Rod Johnson³; ¹Woods Hole Oceanographic Inst., Woods Hole, MA; ²ThermoFisher, San Jose, CA; ³Bermuda Institute of Ocean Sciences, St. George's, Bermuda
- MP 702 An Integrated Omics Approach to Characterize Complex Microbial Phenotype Behavior: Characterizing Bacterial Swarming; Robert Hettich¹; Richard J Giannone¹; James Elkins¹; Jenny Morrell-Falvey¹; Abigail Tester²; Shawn R Campagna²; ¹Oak Ridge National Laboratory, Oak Ridge, TN; ²University of Tennessee, Knoxville, TN
- MP 703 Leveraging Transcriptomic and Phosphoproteomic Data of Perturbed MCF10A Cells to Identify Downstream PTEN Events of Breast Cancer; Chenwei Lin 1; Richard Ivey1; Jacob J Kennedy1; Ping Yan1; Jeffery R. Whiteaker1; Julia Voytovich1; Travis Lorentzen1; Regine Schoenherr1; Amanda G. Paulovich1; Pei Wang2; Fred Hutchinson CRC, Seattle, WA; Icahn Institute for Genomics and Multiscale Biology, New York, NY
- MP 704 A Systems Toxicology Approach to Predict Disease-Like Phenotypes in Human Lung Tissue Models; Joseph Caruso¹; Paul Stemmer¹; ¹Institute of Environmental Health Sciences, Wayne State University, Detroit, MI
- MP 705 A Label-Free Informatics Framework for Automated Top-Down Proteoform Relationship Determination and Protein Identification across Multidimensional Chromatographic Space; Steven Patrie¹; Casey E Wing¹; John R Corbett¹; William S Phipps¹; Daniel A Plymire¹; ¹UT Southwestern Med. Center, Dallas, TX
- MP 706 Mass-Spectrometry of Single Mammalian Cells
 Quantifies Proteome Heterogeneity during Cell
 Differentiation; Bogdan Budnik¹; Ezra Levy²; Harrison
 Specht²; Nikolai Slavov³; ¹Harvard University, Cambridge,
 MA; ²Northeastern University, Boston, MA; ³Northeastern
 University, Boston, MA

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- MP 707 An Ultrafast, Dilute and Shoot-Flow Injection/ MRM method for Quantification of Phenobarbital and Ethyl-D-Glucuronide (EtG) in Urine; Ravali Alagandula; Cleveland State University, Cleveland, OH
- MP 708 Determination of cis-Permethrin, Trans-Permethrin in Rat Plasma and Brain using Gas Chromatography—Negative Chemical Ionization Mass Spectrometry;

 Shirin Hooshfar¹; Darren Gullick¹; Michael Linzey¹; Tanzir Mortuza¹; James V. Bruckner¹; Catherine A. White¹; Michael G. Bartlett¹; ¹Department of Pharmaceutical and Biomedical Sciences, College of Pharmacy, The University of Georgia, Athens, GA
- MP 709 Development of multi-Residue LC-MS/MS Method for Determination of Mycotoxins in Animal Feed; Renat Selimov¹; Pavel Metalnikov²; Alexander Komarov²; ¹VGNKI, Moscow, Russia; ²VGNKI, Moscow, Moscow
- MP 710 Development of an Analytical Method for 2,2'-Dimorpholinodiethyl Ether (DMDEE), in Rat Plasma, Amniotic Fluid, and Fetus Homogenate by UPLC-MS/MS; Teruyo Uenoyama¹; Melanie A. Rehder Silinski¹; Reshan A. Fernando¹; Veronica G. Robinson²; Georgia K. Roberts²; Suramya Waidyanatha²; ¹RTI International, Research Triangle Park, NC; ²Division of National Toxicology Program, NIEHS, Research Triangle Park, NC
- MP 711 Combined Screening and Quantitative Confirmation of 110 Drugs in Urine by LDTD-MS/MS Using a Generic SPE Procedure; John D. Laycock¹; Serge Auger²; Pierre

- Picard²; Philip Dimson¹; Karsten Liegmann¹; David Hall¹; Jean Lacoursiere²; ¹Tecan-SP, Baldwin Park, CA; ²Phytronix Technologies, Québec, QC, Canada
- Point-of-Care Identification of Ingested Household Pesticides in Gastric Lavage Content by Laser Desorption-Electrospray Ionization Mass Spectrometry in the Emergency Department; Chi-Wei Lee¹; Hung Su²; Yang-Kuang Pan²; Jentaie Shiea ²; ¹Kaohsiung Medical University, Kaohsiung, Taiwan; ²National Sun Yat-Sen University, Kaohsiung, Taiwan
- MP 713 Toxicological Screening for over 1000 Compounds in an MRM Based Acquisition for Library ID in Whole Blood Samples; Alan Barnes¹; Tiphaine Robin²; Sylvain Dulaurent²; Souleiman Elbalkhi²; <u>Stéphane Moreau</u>³; Neil Loftus¹; Pierre Marquet²; Franck Saint-Marcoux²; ¹Shimadzu Corporation, Manchester, UK; ²CHU Limoges, Limoges, France; ³Shimadzu Europa GmbH, Duisburg, Germany
- MP 714 Automatic, Simultaneous and Rapid Analysis of 22
 Drugs of Abuse in Saliva by on Line SPE and UHPLCMS/MS.; Toinon Doriane¹; Jaffuel Aurore²; Huteau Alban²;

 ¹Shimadzu. Noisiel: ²Shimadzu France. Paris. France
- MP 715 Analysis of the Chemical Warfare Agent VX Isomers in Guinea Pig Blood Following an IV Exposure Utilizing Normal Phase LC-MS/MS; Christopher E Byers¹; Michael W Busch²; Paul S Demond²; Linnzi K. Wright¹; Ronald A Evans¹; ¹US Army ECBC, Aberdeen Proving Ground, MD; ²Excet, Inc., Springfield, VA
- MP 716 Analysis of Genital Abnormalities Induced by Fetal Exposure to Endocrine Disrupting Chemicals via Shotgun Proteomics; Tara Nash¹; Ciro M Amato²; Josua Mogus²; Krista McCoy²; Michael S Bereman¹; ¹North Carolina State University, Raleigh, NC; ²East Carolina University, Greenville, NC
- MP 717 Comparison of Genetic and Environmental Mechanisms of Motor Neuron Death by Contemporary Proteomics;

 Joshua Beri¹; Tara Nash¹; Micheal Bereman¹; **North Carolina State University, Raleigh, NC
- MP 718 Data Dependent or Data Independent Acquisition: Evaluation of SWATH for Clinical and Forensic Drug Screening; Kara L. Lynch¹; Jeffrey D. Whitman¹; ¹University of California, San Francisco, San Francisco, CA
- MP 719 Elucidation of the Epiproteomic Landscape at the Arsenic Response Locus in S. cerevisiaeby CRISPR-ChAP-MS; <u>Kirk L West</u>¹; Zachary J Waldrip²; Stephanie Byrum²; Ricky D Edmondson²; Sam G Mackintosh²; Sean D Taverna³; Alan J Tackett²; ¹Univ. of Arkansas for Medical Sciences, Little Rock, AR; ²UAMS, Little Rock, AR; ³Johns Hopkins School of Medicine, Baltimore, MD
- MP 720 Investigation of Saliva as an Alternative Matrix for General Unknown Screening of Drugs of Abuse and Medication; Michael Boettcher¹; Markus Meyer²; ¹MVZ Labor Dessau GmbH, Dessau-Rosslau, Germany; ²Bruker Daltonik GmbH, Bremen, Germany
- MP 721 Quantitative Clinical Toxicological Screening
 Comparing Library ID from Product Ion Scan MS/MS to
 MRM Spectrum Mode ID; Alan Barnes¹; Tiphaine Robin²;
 Sylvain Dulaurent²; Souleiman Elbalkhi²; Neil Loftus¹; Pierre
 Marquet²; Franck Saint-Marcoux²; ¹Shimadzu Corporation,
 Manchester, UK; ²CHU Limoges, Limoges, France

Set up all Tuesday posters	10:30 am – 1:00 pm
Even-numbered posters present	•
Remove all Tuesday posters	7:30 – 8:00 pm
Ambient Ionization: Applications I	001 - 025
Antibodies & Antibody Drug Conjugates II	026 - 089
Biomarkers: Quantitative Analysis I	090 - 111
Carbohydrates II	112 - 137
Data-Dependent Acquisition	138 - 145
Drug Metabolism: Quantitative Analysis	146 - 156
Environmental: Pharmaceuticals and Pesticides	157 - 183
Food Safety II	184 - 215
Forensics II	216 - 241
Fundamentals: Ion Spectroscopy	242 - 269
GC/MS: Instrumentation and Applications II	270 - 297
Glycoproteins I	298 - 324
Imaging MS: Small Molecules	325 - 350
Informatics: Multiomics Integration	351 - 369
Informatics: Protein ID and Quantification	370 - 378
Instrumentation: General	379 - 401
Instrumentation: New Developments in Ionization and Sampling II	
LC/MS: Sample Preparation II	
Lipids: General	
MALDI: Sample Preparation	
Metabolomics: Untargeted Metabolite Profiling II.	
Nanomaterials	
Nucleic Acids and Oligonucleotides I	
Proteins: General and Membrane	
Proteins: PTMs	569 - 601
Proteomics: Quantitative II	
Proteomics: Top Down Analysis II	
Small Molecules: Qualitative Analysis	
Small Molecules: Quantitative Analysis II	

AMBIENT IONIZATION: APPLICATIONS I

	001 - 025
TP 001	in situ Mass Spectrometry for Chemical Identification
	of Live Cells with Milliseconds Level Ultrafast
	Electrophoresis; Guangming Huang ¹ ; Hongying Zhu ¹ ;
	Gongyu Li ¹ ; ¹ USTC, Hefei, Anhui
TP 002	Screening of Skin Lightening Products for the
	Corticosteroid Clobetasol Propionate using Direct
	Analysis in Real Time (DART) and Mass Detection ;
	Marian Twohig ¹ ; Oliver Burt ² ; Chris Stumpf ¹ ; ¹ Waters
	Corporation, Milford, MA; 2Waters Corporation, Stamford
	Avenue, Altrincham Road, Wilmslow, UK
TP 003	Ultra-fast Screening of Pesticides in Foods and
	Agricultural Products with Desorption Corona Beam
	Ionization (DCBI) Tandem Mass Spectrometry; Jing
	Dong ¹ ; Satoshi Yamaki ² ; Yuki Hashi ³ ; Naoki Hamada ¹ ;
	¹ Shimadzu China, Beijing, China; ² Shimadzu Corporation,
	Kanagawa, Japan; 3Shimadzu China, Shanghai, China
TP 004	Open Probe Fast GC-MS for Medical Diagnostics and
	Drug Pills Real Time Analysis; Uri Keshet1; Ramesh
	Bokka ¹ ; Alexander B. Fialkov ¹ ; Tal Alon ¹ ; Aviv Amirav ¹ ; ¹ Tel
	Aviv University, Tel Aviv, Israel
TP 005	A Novel Universal and Direct SPME-MS Interface Based
	on Capillary APPI for Simultaneous Quantitation of
	Polar and Nonpolar Compounds; Mario Francesco

Mirabelli¹; Renato Zenobi¹; ¹ETH Zurich, Zurich, ZH

Cleavable Isobaric Peptides as Mass Reporters for

	Mass Spectrometry-based Immunoassays; Tatiana
	Vélez-Burgos ¹ ; Jay Kim ¹ ; Yosef Maher ¹ ; Abraham K. Badu-
	Tawiah ¹ ; ¹ The Ohio State University, Columbus, OH
TP 007	Detection and Quantification of Atomic Ions with
	Flowing Atmospheric-Pressure Afterglow Mass
	Spectrometry; Garett M. MacLean ¹ ; Jacob T. Shelley ¹ ;
	¹ Rensselaer Polytechnic Institute, Troy, New York
TP 008	Extractive Atmospheric Pressure Photoionization
	(EAPPI) Mass Spectrometry: Rapid Analysis of
	Chemicals in Complex Matrices; chengyuan liu1; Yang
	Pan¹; ¹University of Science and Technology of China,
TD 000	Hefei, China
TP 009	Molecular Characterization of Exhaust Particulate Matters Using Internal Extractive Electrospray
	IonizationMass Spectrometry; Hua Zhang ^{1, 2} ; Yi Li ² ;
	Liang Zhu²; Huanwen Chen²; ¹State Key Laboratory of
	Inorganic Synthesis and Preparative Chemistry, College of
	Chemistry, Jilin University, Changchun, China; ² East China
	University of Technology, Jiangxi Key Laboratory for Mass
	Spectrometry and Instrumentation, Nanchang, China
TP 010	Rapid Classification of Medulloblastoma Subgroups
	for Optimal Treatment Planning Using a Hand Held
	Cold Laser Ablation Mass Spectrometry Probe; Michael
	Woolman ¹ ; Jing Zou ¹ ; Megan Wu ² ; Semra Isik ² ; Claudia
	M Kuzan-Fischer ² ; Isabelle Ferry ² ; Sunit Das ² ; Michael D
	Taylor ² ; James T Rutka ² ; Howard Ginsberg ¹ ; <u>Arash Zarrine</u>
	Afsar ³ ; ¹ University of Toronto, Toronto, ON; ² Hospital for Sick Children, Toronto, Ontario; ³ Toronto, ON
TP 011	Rapid Molecular Analysis and Comparison of Canine,
11 011	Feline and Human Tumour Samples with REIMS;
	Metastasis based Identification of Primary Tumour; Julia
	Balog ^{1, 2} ; Richard Schaffer ¹ ; Steven Derek Pringle ^{2, 3} ; Zoltan
	Takats ² ; ¹ Waters Research Center, Budapest; ² Imperial
	College London, London; 3Waters Corporation, Manchester
TP 012	Thermal Desorption Combined with Flame Atmospheric
	Pressure Chemical Ionization Mass Spectrometry to
	Rapidly Determine Chemical Compounds; Hung Su ¹ ;
	Shih-Hsi Chen ¹ ; Sy-Chyi Cheng ¹ ; Jentaie Shiea ¹ ; ¹ National
TD 0.10	Sun Yat-Sen University, Kaohsiung, Taiwan
TP 013	Utilizing Solid Phase Extraction Technologies to
	Facilitate DART-basedHigh-ThroughputAmbient
	Ionization-MS Analysis of Biological Samples; Brian D. Musselman 1; Fredrick Li1; Joseph Tice1; 1IonSense, Inc.,
	Saugus, MA
TP 014	A Comparative Study of Nitrogen Versus Helium Direct
017	Analysis in Real Time Mass Spectrometry for the

TP 014 A Comparative Study of Nitrogen Versus Helium Direct Analysis in Real Time Mass Spectrometry for the Analysis of Polar Compounds; Liguo Song¹; Wei Chean Chuah¹; Edward Remsen²; John E Bartmess³; ¹Western Illinois University, Macomb, IL; ²Bradley University, Peoria, IL; ³University of Tennessee, Knoxville, TN

TP 015 Analysis of Degraded Polybutylene Terephthalate (PBT) Products by Thermal Desorption and Pyrolysis Combined with DART-MS (TDP/DART-MS); Chikako Takei¹; Yasuyuki Semba¹; Kenichi Yoshizawa¹; ¹BioChromato, Inc., Fujisawa, Japan

TP 016 Analysis of Macrolides Antibiotics by Direct Analysis in Real-Time Mass Spectrometry with Glycerin as Dopant;
Qing Yang¹; Jiyuan Guo¹; Bin Xu²; Weihong Zhang²;
Xiaokun Duan²; Charles C. Liu²; ¹Department of Quality
Inspection, New Hope Liuhe Co., Ltd, Qingdao, China;
²ASPEC Technologies LTD, Beijing, China

TP 017 Analysis of Tea Aroma by Direct Analysis in Real-Time Mass Spectrometry; Li Zhang¹; Bin Xu²; Xiaokun Duan²; Charles C. Liu²; ¹Suzhou Vocational University, Suzhou, China; ²ASPEC Technologies LTD, Beijing, China

TP 018 Analysis of Weakly Interacting Dicopper Formamidinate Complexes by Direct Analysis in Real Time (DART)

Mass Spectrometry; Michael Pastor¹; O. David

Sparkman¹; Qinliang Zhao¹; ¹University of the Pacific,

TP 006



- Stockton, California
- TP 019 Chemotaxonomy of Astyanax and Drosophila by DART-MS Analysis of fatty acids and Ozonolysis-Derived Fatty Acyl Fragments; Joanne Y. Yew¹; Masato Yoshizawa²; Robert B. Cody³; ¹Pacific Biosciences Research Center, University of Hawaii at Manoa, Honolulu, HI; ²Department of Biology, University of Hawaii at Manoa, Honolulu, HI; ³JEOL USA Inc., Peabody, MA
- TP 020 Comparison of Portable near-IR and Laboratory mid-IR Sources for Laser Ablation Atmospheric Pressure Photoionization MS; Raveendra C. Wickramasinghe¹; Yeni P. Yung¹; Anu Vaikkinen²; Tiina J. Kauppila²; Luke Hanley¹; ¹University of Illinois at Chicago, Chicago, IL; ²University of Helsinki, Helsinki, Finland
- TP 021 Dark Discharge Assisted Direct Analysis in Real Time Ionization using Argon; Motoshi Sakakura¹; Teruhisa Shiota¹; Mitsuo Takayama²; Kanako Sekimoto².³; ¹AMR Inc., Meguro-ku, Japan; ²Yokohama City Univ., Yokohama, Japan; ³NOAA Earth System Research Laboratory, Boulder, CO
- TP 022 MS/MS Applications of the iKnife in Breast Surgery: Towards Triple-Quadrupole Based Real-Time Tissue Identification; Zsolt Bodai¹; Edward St John¹; Emma White¹; April Covington¹; James McKenzie¹; Francesca Rosini¹; Hui-Yu Ho¹; Julia Balog²; Daniel Leff¹; Zoltan Takats¹; ¹Imperial College London, London; ²Waters Research Center, Budapest
- TP 023 Rapid Detection of Explosives using Thermal Desorption DART-MS and Reverse Library Search; Frederick Li¹; Joseph Tice¹; Stephen Shrader²; Brian Musselman¹; ¹IonSense Inc., Saugus, MA; ²Shrader Software Solutions, Grosse Pointe Park, MI
- TP 024 Rapid Screening of Explosives in Ambient Environment by Aerodynamic Assisted Thermo Desorption Mass Spectrometry; Jianli Liu¹; Qiang Zhao¹; Wei Xu¹; ¹Beijing Institute of Technology, Beijing, China
- TP 025 Real-Time Organic Aerosol Analysis via Vacuumassisted Plasma Ionization (VaPI) Ion Mobility-Mass Spectrometry.; Sandra L. Blair¹; Stephen C. Zambrzycki¹; Anyin Li¹; Masayuki Takeuchi¹; Charles L. Liotta¹; Nga L. Ng¹; Facundo M. Fernández¹; ¹Georgia Institute of Technology, Atlanta, GA

ANTIBODIES & ANTIBODY DRUG CONJUGATES II 026 - 089

- TP 026 Elimination of ADE-induced Dengue Virus Infection by a Novel Reagent DCAF; Shan Feng; Tsinghua University, Beijing, Beijing; University of Notre Dame, Notre Dame, IN
- TP 027 Investigating Product Quality of HIV Monoclonal Antibody by LC-MS Analysis; Vera B. Ivleva¹; Nicole A. Schneck¹; Q. Paula Lei¹; K. C. Cheng¹; ¹NIH/NIAID/VPPL, Gaithersburg, MD
- TP 028 Evaluation of Protein Aggregation in Biopharmaceutical using Chemical Cross-linking MS and Quantitative Laser diffraction; Yuzo Yamazaki¹; Kenji Saito²; Hiroki Maeda¹; Yuji Shoya²; Masayoshi Toyoura²; ¹Shimadzu Corporation, Kyoto, Japan; ²Biomedical R&D Department, Pharma Foods International, Japan
- TP 029 Factors Affecting Spectral Quality of Monoclonal Antibodies from Time-of-Flight Mass Spectrometers;

 Jeff Brown¹; Jonathan Williams¹; Emmy Hoyes¹; Dale Cooper-Shepherd¹; Francesco Lanucara¹; Laetitia Denbigh¹;

 Michael Morris¹; ¹Waters Corporation, Wilmslow, UK
- TP 030 Characterization of a Cysteine-conjugated ADC on a Hybrid Quadrupole-Orbitrap Mass Spectrometer; Xiaoxi Zhang¹; Jun Lin²; ¹ThermoFisher Scientific, Shanghai, China; ²Genor Biopharma Co., Ltd., Shanghai, China
- TP 031 Characterizing and Quantitating Therapeutic
 Antibody and Drug Conjugate Biotransformation
 using High Throughput On-Tip Affinity Capture Mass
 Spectrometry; John C. Tran¹; Ke Sherry li²; Jianyong

- Wang²; Phillip Y Chu²; Aimee Fourie²; Robert Tchelepi²; Katherine R Kozak²; Yichin Liu²; ¹Genentech, South San Francisco, CA; ²Genentech, Inc, South San Francisco, CA
- TP 032 Qualitative Analysis of Antibody-Drug Conjugates (ADCs): An Experimental Evaluation of Common Analytical Techniques for Direct Comparison; Malin Källsten^{1,2}; Rafael Hartmann^{1,2}; Konstantin Artemenko¹; Fredrik Lehmann²; Jonas Bergquist¹; ¹Uppsala University, Uppsala, Sweden; ²Recipharm OT Chemistry AB, Uppsala. Sweden
- TP 033 Understanding the Limits of Quantitation for Intact Proteins using Microfluidic LC-MS; Gregory Roman¹; James Murphy¹; Waters Corp, Milford, MA
- TP 034 Comprehensive Characterization on Monoclonal Antibody using a Newly Developed Q-TOF/
 MS Instrument; David Wong¹; Jing Chen²; ¹Agilent
 Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Madison, WI
- TP 035 Gas-phaserearrangement byCIDof Calicheamicinbased LP with Cleavable Linker Containing Aminobenzylcarbamate Group; Xidong Feng¹; Dahui Zhou¹; Kenneth Dirico¹; Russell Dushin¹; Chakrapani Subramanyam¹; Christopher J O'Donnell¹; ¹Pfizer, Groton. CT
- TP 036 Development of Native and Denaturing LC-MS Methods for Characterization of Cysteine-Linked Antibody Drug Conjugates Using a Non-Toxic Mimic; Kevin Ray¹; Nicolas Caffarelli¹; Gordon NicoL¹; Ben Cutak¹; Brian Gau¹; Jeff Turner¹; ¹MilliporeSigma, St. Louis, MO
- TP 037 **Hybrid-MS Analyses of IgG1 Antibodies: Confirmation of Conformation**; Rosie Upton¹; Kamila J Pacholarz¹; Lukasz Migas¹; Amy Campbell²; Perdita E Barran¹; David Firth³; ¹University of Manchester, Manchester, UK; ²University of Liverpool, Liverpool, Merseyside; ³Covance Laboratories Ltd., Harrogate, UK
- TP 038 Native Ion Mobility Mass Spectrometry for the Characterization of Biotherapeutics; Dale A. Cooper-Shepherd¹; Jakub Ujma¹; Kevin Giles¹; Laetitia F. Denbigh¹; Nick Tomczyk¹; ¹Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- TP 039 Insights from Native Mass Spectrometry Approaches for Top- and Middle- Level Characterization of Site-Specific Antibody-Drug Conjugates; Thomas Botzanowski'; Stephane Erb¹; Oscar Hernandez Alba¹; Anthony Ehkirch¹; Olivier Colas²; Elsa Wagner-Rousset²; David Rabuka³; Penelope Drake³; Alain Beck²; Sarah Cianferani¹; ¹Laboratoire de Spectrométrie de Masse BioOrganique, University of Strasbourg, Strasbourg, France; ²Centre d'Immunologie Pierre-Fabre, Saint-Julien-en-Genevois, France; ³Catalent Biologics West, Emeryville, CA
- TP 040 Characterizing Trastuzumab-Drug Conjugates by High Resolution Native Mass Spectrometry, Ion Mobility, and Molecular Dynamics Simulations; Liuqing Shi¹; Bernadette V. Marquez-Nostra²; Suzanne E. Lapi³; Weidong Cui⁴; Michael L. Gross¹; ¹Washington University, St Louis, MO; ²Washington University School of Medicine, St. Louis, MO; ³University of Alabama at Birmingham, Birmingham, AL; ⁴Washington University, St. Louis, MO
- TP 041 Higher Order Structural Analysis of Biotherapeutics Exposed to Sample Handling Stress Conditions;
 Richard A Kerr¹; Hongping Ye¹; ¹FDA Department of Pharmaceutical Analysis, St Louis, MO
- TP 042 Intact Mass Analysis and DAR Calculation for Antibody-Drug Conjugates; Marshall W. Bern¹; Yong J. Kil¹; Eric Carlson¹; K. Ilker Sen¹; St John Skilton¹; Michael Peddicord²; Wei Ding²; ¹Protein Metrics Inc., San Carlos, CA; ²Bristol-Myers Squibb, New Brunswick, NJ
- TP 043 Evaluation of an ADC's DAR in Rat Serum by Affinity



- TP 044 How to Tailor Holistic Analytical Solutions for Therapeutic Bioconjugates to Reveal Previously Unknown Conjugatable Modifications; Wesley Zmolek¹; Qiuting Hong¹; William E Haskins¹; ¹Redwood Bioscience (Catalent Biologics-West), Emeryville, CA
- TP 045 A Mass Spectrometric Method for Readily Identifying Peptides Modified with vcMMAE in Antibody-Drug Conjugate Enzyme Digests; Ioannis A Papayannopoulos¹; Shannon Renn-Bingham¹; Jarrod M Womble¹; ¹Celldex Therapeutics, Inc., Fall River, MA
- TP 046 Analysis of Monoclonal Antibodies in Human Serum for Monoclonal Gammopathy Diagnosis by 21 Tesla FT-ICR Top-Down and Middle-Down MS/MS; Lidong He¹; Lissa Anderson²; David R. Barnidge³; David L. Murray³; Christopher L Hendrickson¹.²; Alan G. Marshall¹.²; ¹Florida State University, Tallahassee, Florida; ²National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ³Mayo Clinic, Rochester, MN
- TP 047 Kinetics of Intracellular Dolastatin Accumulation in EGFR Expressing Cell Lines after Antibody-drug Conjugate Dosing; Ken Durbin; AbbVie, North Chicago, IL
- TP 048

 De-conjugation Coupled with LC-MS for Investigating the Stability of Small Molecule Drugs in Antibody-Drug Conjugates; Tao Chen¹; Dian Su¹; Jason Gruenhagen¹; Yi Li¹; Peter Yehl¹; Nik Chetwyn¹; Colin Medley¹; ¹Genentech, Inc., South San Francisco, CA
- TP 049 Application of ETD to the Characterization of ADC Product Attributes That Are Challenging to the Traditional Approach; Zhiqi Hao¹; Qiuting Hong².³; Michael Kim¹; Diana Liu¹; William Haskins¹.³; Yan Chen¹; ¹Genentech, Inc, South San Francisco, CA; ²Eurofins Lancaster Laboratories, Inc., Lancaster, PA; ³Catalent Pharma Solutions, Emeryville, CA
- TP 050 Characterization of a Degradation Product of an IgG1 Monoclonal Antibody by Tandem Mass Spectrometry and Other Biophysical Techniques; Ekaterina G.

 Deyanova¹; Yun Wang²; Yuan Cheng²; Jun Dai²; Brent Meengs³; Jason Chen²; Jonathan Wert³; Yingru Zhang²; Olafur Gudmundsson²; Susan Julien³; Guodong Chen²; ¹Bristol-Myers Squibb, Princeton, NJ; ¹Bristol-Myers Squibb, Princeton, NJ; ³Bristol-Myers Squibb, Seattle, WA
- TP 051 A Direct Comparison of Top-Down and Bottom-Up HDX-MS for Antibody Characterization; Jingxi Pan^{1,2}; Suping Zhang³; Christoph H. Borchers¹.⁴; ¹University of Victoria Genome BC Proteomics Centre, Victoria, BC; ²Division of Medical Sciences, University of Victoria, Victoria, BC; ³MRM Proteomics, Victoria, BC; ⁴Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC
- TP 052 Antibody Sequence Validation by Peptide and Disulfide Bridge Mapping; Yi Liu¹; Lei Xin²; Baozhen Shan²; Kaizhong Zhang¹; ¹University of Western Ontario, London, ON; ²Bioinformatics Solutions Inc, Waterloo, ON
- TP 053 ImmunocaptureLC-HRMS for the Quantitation of Therapeutic Monoclonal Antibody Ipilimumab Using Light Chain Approach; Yongxin Zhu¹; John Mehl¹; France Landry¹; Srikanth Kotapati²; David Passmore²; Haiqing Wang¹; Eugene Ciccimaro Jr.¹; Timothy Olah¹; ¹Bristol-Myers Squibb, Princeton, NJ; ²Bristol-Myers Squibb, Redwood City, CA
- TP 054 Quantitative HPLC-MS/MS Analysis of DM1 and DM1-MCC Extracted from Whole Blood Dried onto a Mitra Microsampling Device; Chad D. Christianson¹; Michael D. Williams¹; Natalie C. Garcia²; Katherine M. Yahvah¹; **IAlturas Analytics, Moscow, ID; **2Neoteryx, LLC, Torrance, CA
- TP 055 High-Resolution Accurate-Mass LC-MS enables In-

- Depth Characterization of *in vivo* Biotransformations for Intact Antibody-Drug Conjugates; Jintang He¹; Dian Su¹; Carl Ng¹; Luna Liu¹; Shang-Fan Yu¹; Thomas Pillow¹; Geoffrey Del Rosario¹; Surinder Kaur¹; Keyang Xu¹; ¹Genentech, Inc, South San Francisco, CA
- TP 056 Application of Non-Reduced Peptide Mapping by Mass Spectrometry (MS) for the Characterization of Site-Specific Cysteine Antibody-Drug Conjugates; Andrew W. Dawdy¹; Jason C. Rouse²; Olga V. Friese¹; ¹Pfizer Inc, St Louis, MO; ²Pfizer Inc., Andover, MA
- TP 057 Assessing Biosimilarity of Eight Different Batches of Commercial Herceptin with Similarity Index Derived from Comprehensive Biophysical Data; Mowei Zhou¹; Alejandro Heredia-Langner¹; David Bush²; Erika Zink¹; Xueyun Y Zheng¹; Ernesto Nakayasu¹; Erin S Baker¹; Charles Ansong¹; John Cort¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²Genedata, Lexington, MA
- TP 058 Evaluation of Factors Affecting Detection of Host Cell Proteins in Biotherapeutic Proteins using an Orbitrap Fusion Lumos Tribrid Mass Spectrometer; Stephane Houel¹; Michael Blank¹; Romain Huguet¹; Seema Sharma¹; Martin Samonig²; Vlad Zabrouskov¹; Jonathan Josephs¹;

 1 Thermo Fisher Scientific, San Jose, California; Thermo Fisher Scientific, Bremen, Germany
- TP 059 Highly Automated Analysis of Antibody Chain Shuffling in Bispecific Antibodies; Marshall Bern¹; Yong J. Kil¹;
 Eric Carlson¹; Brian D. Soriano²; Stone D.-H. Shi²; ¹Protein Metrics Inc., San Carlos, CA; ²Amgen, Thousand Oaks, CA
- TP 060 Full Validation of Therapeutic Antibody Sequences by Middle-Up Mass Measurements and Middle-Down Protein Sequencing as a Routine Task; Anja Resemann¹; Wolfgang Jabs²; Elsa Wagner³; Olivier Colas³; Waltraud Evers¹; Jason S. Wood⁴; Eckhard Belau¹; Lars Vorwerg¹; Alain Beck³; Detlev Suckau¹; ¹Bruker Daltonics, Bremen, Germany; ²Beuth University of Applied Sciences Berlin, Berlin, Germany; ³Laboratories Pierre Fabre, Paris, France; ⁴Bruker Daltonics. Billerica, MA
- TP 061 Pilot Study Regarding Automated Comparative Fdand Fc-Domain MS-Based Glycoprofiling for High-Throughput Online Process Monitoring of Therapeutic Antibody Production; Sven Bahrke¹; Robert Wilmanowski¹; Martin Hedström²; Dag Erlandsson²; Fredrik Olsson²; Detlev Suckau³; Wolfgang Jabs⁴; ¹Glycotope GmbH, Berlin, Germany; ²CapSenze Biosystems AB, Lund, Sweden; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴Beuth University of Applied Sciences Berlin, Berlin, Germany
- TP 062 Use Information Independent SWATH Acquisition for Biotherapeutic Peptide Mapping; Ji Luo; Shanghai AB Sciex Analytical Instrument Trading Co., Ltd, Shanghai, China
- TP 063 BiopharmaViewTM Software as a Robust Tool for Automated Quantitation of Oxidation Sites in Monoclonal Antibody Characterization; Kerstin Pohl¹; Annu Uppal²; Amandine Boudreau³; ¹SCIEX, Darmstadt, Germany; ²SCIEX, Gurgaon, India; ³SCIEX, Concord, ON
- TP 064 Rapid Method for IgG Met-255 Oxidation Level Determination by LC-MS. Method Development and Qualification; Tomasz Welerowicz¹; Tomasz Gozdziewicz¹; Radoslaw Obuchowicz¹; Marianna Sztolpa¹; Krystian Siten¹; Pawel Socha¹; Michael Safinowski¹; Piotr Zien¹; ¹Polpharma Biologics, Gdansk, Poland
- TP 065 HRAMS Monitoring of in-vivo Protein
 Biotransformation's: Quantitative Determination of
 Trastuzumab and Deamidation Products in Human
 Plasma by MRMHR and SWATH®; Jason Causon¹; Kees
 Bronsema²; Nico Van De Merbel²; Peter Bults²; Edwin
 Hooijschuur²; Martijn Hilhorst²; Milla Neffling¹; Neil Walsh¹;
 ¹SCIEX, Warrington, Cheshire; ²PRA HealthSciences,
 Assen, Netherlands
- TP 066 Antibody Verification by Protein Immunoprecipitation



- and Mass Spectrometry (IP-MS) Characterizes Antibody Performance and Identifies Protein-Protein Interactions; Gregory K. Potts¹; Bhavin Patel¹; Leigh Foster¹; John C. Rogers¹; ¹Thermo Fisher Scientific, Rockford, IL
- TP 067 Controlled, In-membrane Protein Digestion for Antibody Characterization and Assessment of Structural Changes; Merlin Bruening¹; Yongle Pang²; Weijing Liu¹; Wenjing Ning²; Nitin Patel³; Gia Jokhadze³; ¹University of Notre Dame, Notre Dame, IN; ²Michigan State University, East Lansing, MI; ³Takara Bio, Mountain View, CA
- TP 068 Evaluation of a Microfluidic Electrophoresis Device Coupled to an Orbitrap Mass Spectrometer for the Characterization of Biotherapeutics Proteins; Stephane Houel¹; Erin Redman²; Scott Mellors²; Aaron Bailey¹; Chris Petty³; Aran Paulus¹; Kai Zhou⁴; Jonathan Josephs¹; ¹Thermo Fisher Scientific, San Jose, California; ²908 Devices, Inc., Carrboro, NC; ³908 Devices Inc., Boston, MA; ⁴Thermo Fisher Scientific, Cambridge, MA
- TP 069 Evaluation of the Arginine Specific Protease RgpB for LC-MS Based Antibody Analysis; Sheila Maibom-Thomsen^{1,2}; Peter Højrup²; Jakob Bunkenborg¹; Malin Mejare³; Ejvind Mørtz¹; Fredrik Olsson³; Thomas Kofoed¹; Maria Nordgren³; 'Alphalyse, Odense, Fyn; ²University of Southern Denmark, Odense, Denmark; ³Genovis, Lund, Sweden
- TP 070 Physicochemical Characterization of an Original and Biosimilar Omalizumab by Mass Spectrometry Methods; Maksim Degterey¹; Rakhim Shukurov¹; Alexander Vishnevskiy¹; Igor Fabrichniy¹; ¹IBC Generium, Vol'ginskiy
- TP 071 Mass Spectrometry as an Orthogonal Technique to Quality Control and Sequencing in Recombinant mAb Production; Scott A Robotham¹; Jason Hogan²; Nicole Bracy-Johson¹; Holly Palme¹; Aarti Jashnani²; Jia Dong²; Billy Akinsanya¹; Adela Buzescu¹; Andy Deng²; Meaghan Happer²; Jonathan R Haulenbeek¹; ¹Bristol-Myers Squibb, Princeton, NJ; ²Bristol-Myers Squibb, Redwood City, CA
- TP 072 Establishing Translation of a Whole-Molecule LC-MS Assay for *in vivo* Quantitation of mAbs: From Pharmacokinetic Analyses to Critical Quality Attributes; John F. Kellie¹; Robert A. Biddlecombe²; Sarah Childs²; Molly Z. Karlinsey¹; ¹GSK, King of Prussia, PA; ²GSK, Stevenage, UK
- TP 073 Mapping the Effects of UV Irradiation on Monoclonal Antibody Drugs; J. Larry CampbelL¹; Chris Lock¹; Brendon Seale².³; J.C. Yves Leblanc²; Suya Liu²; Xu Guo²; Wen Jin²; Michael Sasges⁴; Michelle Gabriel⁴; Mark Schofield⁵; Marc Aucoin⁶; Emma Dare⁶; ¹SCIEX, Concord, ON; ²SCIEX, Concord, ON, ON; ³University of Toronto, Toronto, ON; ⁴Trojan Technologies, London, Ontario; ⁵Pall Corporation, Westborough, MA; ⁶University of Waterloo, Waterloo, Ontario
- TP 074 Characterization of N-glycans in Therapeutic Glycoproteinsby Hydrophilic Interaction Ultra High Performance Liquid Chromatography-Fluorescence-Mass Spectrometry (HILIC-UHPLC-FLD-MS); Annette Vogt¹; Cornelia Wagner¹; Babette Werner¹; Andreas Adlberger¹; Laurent Lariviere¹; Hans Koll¹; ¹Roche Pharma Research and Early Development (pRED), Large Molecule Research, Roche Innovation Center Munich, Penzberg, Germany
- TP 075 Comparative Fc N-glycosylation Profiling at Glycopeptide Level for Differentiation and Verification of Monoclonal Antibody Therapeutics using HILIC-SPE Coupled to MALDI-TOF-MS; Lianji Jin; FDA, Cincinnati, OH
- TP 076 Degradation Study of the NISTmab Reference Material: From the Discovery to Routine Quantification of Stress Related Artefacts; Guillaume Tremintin¹; Detlev Suckau²; Peter Hufnagel²; ¹Bruker Daltonics, Fremont, CA; ²Bruker Daltonik GmbH, Bremen, Germany
- TP 077 Multilevel Characterisation of Site-Specific Antibody

- **Drug Conjugates (ADC) using RP-UPLC-ESI-MS**; <u>Sylwia Jozwiak</u>¹; James Graham¹; ¹*Lonza Biologics, Slough, Berkshire*
- TP 078 Determination of Released Payload Species of Antibody Drug Conjugates with Noncleavable Linkers by High Resolution Mass Spectrometry and MetabolitePilot Software; lan Moore; Yuan-Qing Xia²; ¹SCIEX, Concord, ON; ²Sciex, Frammingham, MA
- TP 079 Routine Host Cell Protein (HCPs) Monitoring and Non-Targeted New Feature Detection and Identification as Part of Mass Spectrometry-based Quality Control; Michael Blank¹; Stephane Houel¹; Jonathan Josephs¹; ¹Thermo Fisher Scientific, San Jose, CA
- TP 080 **Toward de novo Sequencing of Mixtures of Antibodies**; Natalie Castellana¹; Kexin Huang²; Alice Liang²; Siyang Wang²; Hua Tu²; ¹Digital Proteomics, LLC., La Jolla, CA; ²LakePharma, Inc., Belmont, CA
- TP 081 Automatic End-to-End de novo Sequencing (Including I/L) of Antibodies with EThcD Fragmentation; Wilfred H. Tang¹; Yong J. Kil¹; K. Ilker Sen¹; Marshall Bern¹; Shruti Nayak²; Beatrix Ueberheide²; Gregg Silverman²; ¹Protein Metrics, San Carlos, CA; ²New York University Langone Medical Center, New York, NY
- TP 082 Automated Determination of ADC Drug-Antibody Ratios Using an Open Access System; Tanner Stevenson¹; Stephen Madden²; David Wong²; Jade C. Byrd²; Robert Williams²; ¹Agilent Technologies, Santa Clara, CA; ²Agilent Technologies Inc., Santa Clara, CA
- TP 083 Practical Glycan Analysis: Comparison of Methods for Characterizing Glycan Profiles of Recombinant Monoclonal Antibodies; Loredana Serafini¹; Gregory Staples²; Caroline S. Chu²; Andy Gieschen²; Adele Taylor³; Greg Tuffy¹; Mark Nagel¹; Cody Williams⁴; Justin Golde⁴; Gregg Czerwieniec¹; Katherine M. Brendza¹; Roman Sakowicz¹; ¹Gilead Sciences, Foster City, CA; ²Agilent Technologies, Inc., Santa Clara, CA; ³ProZyme, Hayward, CA; ⁴Hamilton Robotics, Reno, Nevada
- TP 084 Fast Stability Assessment of a Next Generation Antibody Drug Conjugate by N-Acetylcysteine-Drug Conjugate Model Compound Degradation Study;

 Chunang (Christine) Gu¹; Omar Hamdy¹; John Peattle¹; lieza Danan-leon¹; Tony Cano¹; ¹Abbvie Stemcentrx LLC, South San Francisco. CA
- TP 085 A Novel LC/MS-based Pipeline Enabling Comprehensive Investigation of Tumor/Tissue Disposition of Antibody-Drug-Conjugate, in vivo DAR, Free Toxin and Antigen Turnover; Bo An¹; Ming Zhang¹; Yang Qu¹; Yuan-ju Chen¹; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY
- TP 086 Profiling the N-Glycosylation of Biotherapeutic IgGs with HILIC-MRM Analysis of Trypsin Digested Culture Media; Ron Orlando^{1, 2}; Gerardo Gutierrez²; Tyler Fletcher³; ¹University of Georgia, Athens, GA; ²GlycoScientific, LLC, Athens, GA; ³University of Georgia, Athens, GA
- TP 087 Improved Top-Down and Middle-Down Characterization of Antibodies using Multiple Ion Activation Techniques on a Modified Orbitrap Tribrid Mass Spectrometer; Luca Fornelli¹; Kristina Srzentić¹; Romain Huguet²; Stephane Houel²; Aaron Bailey²; Helene Cardasis²; Ryan T. Fellers¹; Tara Schroader²; Horn M. David²; Seema Sharma²; Phillip D. Compton¹; Jonathan Josheph²; Vlad Zabrouskov²; Mike Senko²; Neil L. Kelleher¹; ¹Northwestern University-Kelleher Research Group, Evanston, IL; ²Thermo Fisher Scientific, San Jose. CA
- TP 088 N-linked Glycan Profiling for Monoclonal Antibodies using Bottom-Up and Middle-Down LC-MS Approaches;
 Lin He¹; Jonathan Krieger²; Paul Taylor²; Baozhen Shan¹;
 ¹Bioinformatics Solutions Inc, Waterloo, ON; ²Hospital for Sick Children, Toronto, Ontario
- TP 089 LC-MS/MS Quantitative Method Development of

Herceptin Based on nSMOL Technology and Skyline Software; Hongyuan Hao¹; Qiaoxia Liu¹; Taohong Huang¹; ¹Shimadzu (China) Co.,Ltd., Shanghai

BIOMARKERS: QUANTITATIVE ANALYSIS I 090 - 111

- TP 090 A HILIC-MS/MS Method for Simultaneous
 Quantification of the Lysosomal Disease Markers
 Galactosylsphingosine and Glucosylsphingosine in
 Mouse Serum; Xuntian Jiang; Diabetic Cardiovascular
 Disease Center, Washington, St. Louis, MO
- TP 091 Bioanalytical Method Development for the Determination of Desmosine and Isodesmosine in Mouse Urine by ion-pair reverse phase LC-MS/MS; Philip S. Wong¹; Jian Jiang¹; Christopher A James¹; ¹Amgen, Thousand Oaks, CA
- TP 092 Absolute Quantification of Site-Specific Core-Fucosylation of Serum Fibronectin in Alcohol-Related Hepatocellular Carcinoma; Haidi Yin¹; David M. Lubman²; Zhongping Yao¹; ¹The Hong Kong Polytechnic University, Hong Kong, China; ²University of Michigan, Ann Arbor, MI
- TP 093 A fast and Sensitive LC-MS/MS Method for the Determination of Lyso-Gb3 in Human Plasma; Wuyi (Charlie) Zha¹; Karolina Doda¹; Mohamed Osman¹; Xinping Fang¹; ¹WuXi AppTec. Inc. Plainsboro Township, NJ
- TP 094 Quantitative Proteomic Analysis of Serum Exosomes from Patients with locally Advanced Pancreatic Cancer Undergoing Chemoradiotherapy; Mingrui An¹; Kyle C. Cuneo¹; Jianhui Zhu¹; Jing Wu¹; Jing Liang¹; Mengmeng Wang¹; David M. Lubman¹; ¹University of Michigan Medical Center, Ann Arbor, MI
- TP 095 Quantification Performance of Non-Invasive LC-MS/MS Analysis and Evaluation of Undifferentiated State of Human iPS Cells; Kenichi Toyoda¹; Takashi Suzuki¹; Kunitada Hatabayashi²; Kenichi Kagawa²; Masatoshi Takahashi¹; ¹Shimadzu Corporation, Nakagyo-ku, Japan; ²Tokyo Electron Limited, Minato-ku, Japan
- TP 096 Biomarker Monitoring by Quantitative MALDI Imaging: Application to the Tryptophan-Kynurenine Pathway in Immuno-Oncology; Rima Ait-Belkacem¹; Vanesa Bol²; <u>David Bonnel</u>¹; Bruno Gomes²; Jonathan Stauber¹; ¹Imabiotech, Loos, France; ²iTeos Therapeutics SA, Gosselies, Belgium
- TP 097 Investigation of Protective Mechanism of a Bacterial Mixture of Human Commensals against Colon Tumorigenesis by Quantitative Proteomics Analysis;

 Jing Wu¹; Mingrui An¹; Jianhui Zhu¹; Grace Y. Chen¹; David M. Lubman¹; ¹University of Michigan Medical Center, Ann Arbor. MI
- TP 098 Verification of Genomics Biomarker Candidates for Prostate Cancer at the Protein Level Using SRM-MS;

 Hui Wang¹; Yuqian Gao¹; Athena schepmoes¹; Gyorgy Petrovics²; Jennifer Cullen²; Thomas Fillmore¹; Tujin Shi¹; Wei-Jun Qian¹; Richard Smith¹; Brandi Weaver³; Robin Leach³; Ian Thompson³; Sudhir Srivastava⁴; Albert Dobi²; Karin Rodland¹; Jacob Kagan⁴; Shiv Srivastava²; Tao Liu¹; ¹PNNL, Richland, wa; ²Uniformed Services University of the Health Sciences, Bethesda, MD; ³Univerysity of Texas Health and Science Center at San Antonio, San Antonio, TX; ¹National Cancer Institute, Bethesda, MD
- TP 099 Quantitative Targeted-SIM Assay for Neuron-specific Enolase in Small-cell Lung Cancer using Formalin-fixed Paraffin-embedded Tissue Samples; Kiyonaga Fujii¹; Yuka Miyata²; Ikuya Takahashi²; Hirotaka Koizumi¹; Hiromasa Tojo¹; Hisashi Saji¹; Toshiaki Somehara¹.²; Masayuki Takagi¹; Haruhiko Nakamura¹; Toshihide Nishimura¹; †St. Marianna University School of Medicine, Kawasaki, Japan; ²Nissha Printing Co., Ltd., Kyoto, Japan
- TP 100 N-glycopeptides Analysis of Serum Alpha-1-antitrypsin

- in Liver Cirrhosis and Hepatocellular Carcinoma; Mengmeng Wang^{1,2}; Jianhui Zhu¹; Jing Liang^{1,3}; Tingting Chen¹; Mingrui An¹; Yifan Huang⁴; Yehia Mechref⁴; Chunfang Gao²; David M. Lubman¹; ¹Department of Surgery, University of Michigan Medical Center, Ann Arbor, Ml; ²Department of Laboratory Medicine, Eastern Hepatobiliary Surgery Hospital, Second Military Medical University, Shanghai, China; ³School of Chemical Engineering and Technology, China University of Mining and Technology, Xuzhou, China; ⁴Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX
- TP 101 Improved Sensitivity for Protein Biomarker Quantitation in Mouse Plasma by Sample Pretreatment and Trap-Elute Micro-Flow LC-MS/MS; Mingfei Zeng¹; Huachuan Cao¹; ¹Eli Lilly and Company, Shanghai, China
- TP 102 The Power of Quantitative Multiplexing- Combining TMT Discovery and Targeted Label Free Workflows for Biomarker Analysis; Xiaoyue Jiang¹; Katherine Herting²; Ramesh Ganapathy²; Sergei Snovida²; David Horn³; Vic Spicer⁴; Oleg Krokhin⁴; Rosa Viner⁵; Andreas F. Huhmer⁵; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Rockford, IL; ³Thermo Fisher Scientific, San Jose, CA; ⁴University of Manitoba, Winnipeg, MB; ⁵Thermo Fisher Scientific, San Jose, CA
- TP 103 Quantitation of Stercobilin in the Fecal Material of Timothy Syndrome Mice as a Putative Biomarker for Autism; Emily Sekera¹; Troy D. Wood¹; Heather L Rudolph¹; Stephen Carro¹; ¹University at Buffalo, Buffalo, NY
- TP 104 Oxyntomodulin Quantitation in Human Plasma: High Resolution Q-TOF Quantification Myths Debunked;

 Megan Yajuan Wang¹; Anita Lee¹; Derek Chappell¹; Omar Laterza¹; Michael Lassman¹; ¹Merck Research Laboratories, Rahway, NJ
- TP 105 Monitoring with Quantitation the Glycosylation of Multiple Glycoproteins for Diseases Biomarker Discovery; Qiongyu Li¹; Muchena J. Kailemia¹; Frank Leon²; Emanual Maverakis³; Carlito B. Lebrilla¹; ¹Department of Chemistry, University of California, Davis, Davis, CA; ²Biochemistry, Molecular, Cellular and Developmental Biology, University of California, Davis, Davis, CA; ³Department of Dermotology, School of Medicine University of California, Davis, Sacramento, CA
- TP 106 Site-Specific Glycopeptide Analysis of Human alpha-1-acid Glycoprotein (AGP)in Liver Cirrhosis and Hepatocellular Carcinoma of Different Etiologies; Jing Liang^{1, 2}; Jianhui Zhu³; Mingrui An³; Mengmeng Wang³ ⁴; Yifan Huang⁵; Yehia Mechref⁶; David M. Lubman⁷; ¹University of Michigan Medical Center, Ann Arbor, Michigan; ²School of Chemical Engineering and Technology, China University of Mining and Technology, Xuzhou, China; ³University of Michigan Medical Center, Ann Arbor, MI; ⁴Department of Laborary Medicine, Eastern Hepatobiliary Surgery Hospital, Second Military Medical University, Shanghai, China; 5Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, TX; Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, TX: 7University of Michigan Medical Center, Ann Arbor, MI
- TP 107 Oxysterol, Secosterols, and Cholesterol Intermediates Separation and Quantitation Using Triple Quadrupole Mass Spectrometry; Evelyn H. Wang¹; Jerry Byrne II¹; Rachel Lieberman¹; Sonia Bholanath Bhattacharya²; Richard W. Browne²; Christopher Gilles¹; ¹Shimadzu Scientific Instruments, Columbia, MD; ²University of Buffalo, Buffalo, NY
- TP 108 Orthogonal Proteomic Verification of Low Histone H4-K12,16Ac Levels in Homologous Recombination Deficient High-Grade Serous Ovarian Carcinomas; Stefani Thomas¹; Lijun Chen¹; Yang Liu¹; Naseruddin Höti¹; Hui Zhang¹; ¹Johns Hopkins University, Baltimore, MD
- TP 109 Capillary Electrophoresis-Mass Spectrometry



- **Method Development for Biomarkers of Indoleamine 2,3-Dioxygenase**; <u>Yunan Wang</u>¹; Mei Han¹; Jing Man Wong¹; Dan A. Rock¹; Brooke M. Rock¹; ¹Amgen, South San Francisco, CA
- TP 110 Alpha-1 Antitrypsin Quantification using LC-MS/MS;
 Qingguo Tian¹; Bob Xiong²; Eric Lund¹; Dawn Christianson¹;
 Zhen Li¹; ¹Arrowhead Pharmaceuticals Inc., Madison, WI;
 ²Covance, Durham, NC
- TP 111 Mass Spectrometry based Proteomics Investigation of Induced Obstructive Sleep Apnea (OSA) in Rat Atria;

 Devika Channaveerappa¹; Jacob Lux²; Kelly L. Wormwood²; Meredith McLerie²; Brian Panama²; ¹Clarkson University, Potsdam, NY; ²Masonic Medical Research Laboratory, Utica, NY

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- TP 112 Mass Spectrometry Profiling of Pentosan Polysufate; Komal Kedia¹; Xueyun Xheng¹; Mowei Zhou¹; charles Ansong¹; Erin S Baker¹; John Cort¹; ¹PNNL, Richland, WA
- TP 113 Fast Pyrolysis of 13C- and 18O-Labelled Cellooligosaccharides: Probing the Mechanisms of Fast Pyrolysis of Carbohydrates by Using Tandem Mass Spectrometry; Zaikuan Yu¹; Priya Murria¹; Mckay Easton¹; Hilkka Kenttämaa¹; ¹Purdue University-Department of Chemistry, West Lafayette, IN
- TP 114 Structural Characterization of Heparin and Heparan Sulfate using 193 nm Ultraviolet Photodisscoation;

 <u>Dustin Klein</u>¹; Jennifer S Brodbelt²; ¹University of Texas at Austin, Austin, TX; ²University of Texas at Austin, Austin, TX;
- TP 115 Resolution of Carbohydrate Isomers via Ion Mobility-Mass Spectrometry with Boronic Acid Shift Reagent; Li Li¹; Kristin M Mckenna¹; Facundo M Fernandez¹; †School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA
- TP 116 Evaluation of UV Detection as a Novel Method for Glycan Analysis; Charles Nwosu¹; Shuangqi Sally Liu¹; May Zhu¹; ¹Takeda Pharmaceuticals International, Cambridge, MA
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 Chia Yen Liew¹; Shang-Ting Tsai¹; Jien-Lian Chen¹; Hsu Chen Hsu¹; Shih-Pei Huang¹; Yuan-Tseh Lee¹.²; Chi-Kung Ni¹.³; ¹Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan; ²Department of Chemistry, National Taiwan University., Taipei, Taiwan; ³Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan
- TP 118 Machine Learning Approach for *de novo* Glycan Sequencing; Pengyu Hong¹; Yang Tang²; Hui Sun¹; Long Sha¹; Catherine E Costello².³; Cheng Lin³; ¹Brandeis University, Waltham, MA; ²Boston University, Boston, MA; ³Boston University School of Medicine, Boston, MA
- TP 119 High Mannose Glycan Characterization and Quantitation by Free Radical Reagents; Kimberly Fabijanczuk¹; Jose Acosta²; Trang Do²; Jinshan Gao²; ¹, Montcalir, NJ New Jersey; ²Montclair State University, Montcalir, NJ
- TP 120 Glycan Characterization and Quantitation by Free Radical Reagents; Jinshan Gao¹; Kaylee Gaspar¹; Trang Do¹; Nathaniel Adomako¹; Kimberly Fabijanczuk¹; Jose Acosta¹; ¹Montclair State University, Montcalir, NJ
- TP 121 A Rapid LC-MS/MS-based Method for Carbohydrate Linkage Identification Using Multiple Reaction Monitoring (MRM); Ace G. Galermo¹; Eshani Nandita¹; Mariana Barboza¹.²; Matthew J. Amicucci¹.³; Thai-Thanh Vo¹; Carlito B. Lebrilla¹; ¹Department of Chemistry, University of California, Davis, Davis, CA; ²Department of Anatomy, Physiology, and Cell Biology, University of California, Davis, CA; ³Agricultural and Environmental Chemistry Graduate Group, University of California, Davis,
- TP 122 Novel 4-plex Isobaric Aldehyde Reactive N, N-Dimethyl

- Leucine Derivative Tags for Quantitative Glycomics Analysis; Yu Feng¹; Bingming Chen¹; Qinying Yu¹; Xuefei Zhong¹; Lingjun Li¹.²; ¹University of Wisconsin-Madison School of Pharmacy, Madison, WI; ²University of Wisconsin - Madison Department of Chemistry, Madison, WI
- TP 123 Comparative Study of in-ESI, Solution-Phase, and Gas-Phase Hydrogen/Deuterium Exchange for Conformational Analysis of Carbohydrate-Metal Adducts; Tara Liyanage¹; Matthew R Brantley¹; Touradj Solouki¹; Elyssia S Gallagher¹; **Baylor University, Waco, TX
- TP 124 Sialyl Glycan Characterization by Free Radical Activated Glycan Structure Elucidation Reagent; Kaylee Gaspar¹; Trang Do²; Nathaniel Adomako²; Jinshan Gao²; ¹, Montclair, NJ; ²Montclair State University, Montcalir, NJ
- TP 125 Absolute Quantitation of Branching in Polysaccharides using Isotopically Differentiated Permethylation; Eshani Nandita¹; Ace G. Galermo¹; Matthew J. Amicucci²; Mariana Barboza³; Carlito B. Lebrilla¹; ¹UC Davis Department of Chemistry, Davis, CA; ²UC Davis Agricultural and Environmental Chemistry Graduate Group, Davis, CA; ³UC Davis Department of Anatomy, Physiology, and Cell Biology, Davis, CA
- TP 126 Differentiating Isomeric Disaccharides on the Different Types of Mass spectrometers; Wei Mi¹; Zhishang Hu¹; Hongmei Li¹; Changkun Li²; Jing Wang¹; ¹National Insititute of Metrology, Beijing, China; ²Shimadzu Incorporated, Beijing, China
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 S. Hecht¹; Philip L. Loziuk¹; Erin S. Baker²; David C.
 Muddiman¹; ¹North Carolina State University, Raleigh, NC;
 ²Pacific Northwest National Laboratory, Richland, WA
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- TP 129 Structural Elucidation of Fucosylated Chondroitin Sulfates from Sea Cucumber Using Electrospray Ionization Tandem Mass Spectrometry; Isaac Agyekum¹; Lauren Pepi¹; Shiguo Chen²; Robert J Linhardt³; I Jonathan Amster¹; ¹University of Georgia, Chemistry Department, Athens, GA; ²Zhejiang University, Department of Food Science and Nutrition, Hangzhou, China; ³Rensselaer Polytechnic Institute, Troy, NY
- TP 130 Sensitive Detection of Sialylated N-Glycans using Optimized HILIC LC-MS Separations; Qi Wang¹; Matthew A. Lauber¹; ¹Waters Corporation, Milford, MA
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- TP 132 Optimization of Reverse Polarity Capillary Electrophoresis-Mass Spectrometry Separations for the Analysis of Sulfated Glycosaminoglycan Oligosaccharide Mixtures; Morgan Stickney¹; Patience Sanderson¹; Franklin E Leach III¹; James Xia²; Yanlei Yu³; Fuming Zhang³; Robert J Linhardt³; I. Jonathan Amster¹; ¹University of Georgia, Athens, GA; ²CMP Scientific, Corp., Brooklyn, N.Y.; ³Rensselaer Polytechnic Institute, Troy, NY
- TP 133 Negative Electron Transfer Dissociation Sequencing of Increasingly Sulfated Glycosaminoglycan Oligosaccharides in an Orbitrap Mass Spectrometer; Franklin E. Leach IIII¹; Nicholas M. Riley²; Matthew J. P. Rush²; Michael S. Westphall²; Joshua J. Coon²; I. Jonathan Amster¹; **Iniversity of Georgia, Athens, GA; **University of Wisconsin, Madison, WI
- TP 134 Rapid and Sensitive MALDI MS Analysis of



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 1 Thermo Scientific, Cambridge, MA; Optys Technologies, Boston MA
- TP 139 Analysis of Protein-Protein Interactions by Data-Dependent Acquisition without Dynamic Exclusion; Shen Zhang¹; Brett Larsen²; Anne-Claude Gingras²; ¹Lunenfeld-Tanenbaum Research Institute, Toronto, ON ²Lunenfeld-Tanenbaum Research Institute, Toronto, ON
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- TP 141 Evaluation of a Peptide Selection Algorithm for Trapped Ion Mobility with Parallel Accumulation Serial Fragmentation (TIMS-PASEF) on a Q-TOF Instrument; Markus Lubeck¹; Stephanie Kaspar-Schoenefeld¹; Niels Goedecke¹; Oliver Raether¹; Scarlet Beck²; Heiner Koch²; Florian Meier²; Juergen Cox²; Matthias Mann²; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Max Planck Institute of Biochemistry, Martinsried, Germany
- TP 142 Laser-Induced Dissociation Combined with Data Independent Acquisition (DIA-LID): A Proof of Concept Study Covering Human Kinome Expression; Lény Garcia¹; Marion Girod¹; Magali Rompais²; Philippe Dugourd³; Christine Carapito²; Jérôme Lemoine¹; ¹Institut des Sciences Analytiques, Université de Lyon, Université Lyon 1, Ens de Lyon, CNRS, Lyon, France; ²Laboratoire de Spectrométrie de Masse BioOrganique, University of Strasbourg, Strasbourg, France; ³Institut Lumière Matière, Université de Lyon, Université Lyon 1, CNRS, Lyon, France
- TP 143 Deciphering Heterochromatin Proteome with Next Generation Proteomics; <u>Tania Auchynnikava</u>¹; Lauri Peil²; Piotr Grabowski³; Alison Pidoux⁴; Ryan Ard⁴; Robin Allshire⁴; Juri Rappsilber³.⁴; ¹University of Edinburgh, Edinburgh; ²University of Tartu, Tartu, Estonia; ³Technical University Berlin, Berlin, Germany; ⁴University of Edinburgh, Edinburgh, UK
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- TP 152 Experimental Investigation of the Factors Affecting the Sensitivity of HPLC/MS Coupled with Ion-Molecule Reactions; Ravikiran Yerabolu¹; Raghavendhar R Kotha¹; John Kong¹; Zaikuan Yu¹; Rashmi Kumar¹; Chungang Gu²; Hilkka Kenttamaa¹; ¹Purdue University, West Lafayette, IN; ²AstraZeneca R&D, Waltham, MA
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 Khang To; University of North Carolina, Chapel Hill, NC
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 ¹Thermo Fisher Scientific, San Jose, CA
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 Scientific Instr., Columbia, MD
- TP 167 Analysis of Persistent Organic Pollutants in Atmospheric Aerosol using a Novel Ultrasound Assited Extraction Micro-Scale Cell and GCMS-QQQ System;

 Eleazar Rojas Santiago¹; Gelasio Perez Valverde¹; Erik Beristain Montiel²; Eliana Arias Loaiza²; Omar Amador Muñoz²; ¹Agilent Technologies Mexico, Mexico City, Mexico; ²centro de Ciencias de la Atmosfera UNAM, Mexico City, Mexico
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- TP 171 A New, Fast, Simple, and Ultra-Sensitive Determination of Semi-Volatile Organic Compounds in Water Samples by GC-MS/MS Triple Quadrupole System; Diego Martín-Ortiz¹; Javier López¹; Miguel Ángel Pérez¹; Cory Lytle²; Louis Maljers²; ¹Bruker Espanola S.A., Madrid, Spain; ¹Bruker Daltonics Inc., Billerica, MA
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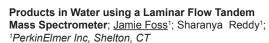
 B. Mamba¹; Titus A.M. Msagati¹; ¹University of South

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- TP 177 Liquid Chromatography-High Resolution Mass
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 Alice Tendai Hungwe¹; Vimbai Mhuka¹; Simiso DubeNindi¹; Mathew Nindi²; ¹Department of Chemistry, College
 of Science, Engineering and Technology, the Science
 Campus, University of South Africa,, Florida Park,
 Roodepoort, Johannesburg, 1709, South Africa, South
 Africa; ²University of South Africa, Pretoria, Gauteng
- TP 178 Automated Online SPE/Tandem-MS Analysis of Trace Organic Contaminants in Drinking Water; Patrick M
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 Tarun Anumol³; Craig Marvin³; Patrick Jeanville²; ¹Agilent Technologies Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Santa Clara, CA; ³Agilent Technologies, Inc., Wilmington, DE
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- TP 183 Effects of Temperature and Hydrodynamic Conditions on Pocis Sampling rates for Constant Concentration Exposures; Valerie Toteu Djomte¹; Kevin Chambliss¹;

 1Baylor University, Waco, TX

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 ¹Sichuan FDA, Chengdu, China; ²PerkinElmer Management
 (Shanghai) Co, Shanghai, China; ³PerkinElmer LAS Canada
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 Minli Zhu¹; Weifeng Zhang¹; Lina Tang²; Lizhong Yang³; Xaingdong Zhou³; Chengyuan Cai³; Feng Qin⁴; Xiang Li³; Yongming Xie³; ¹Guangzhou Agricultural Products Quantity and Safety Supervisory Institute, Guangzhou, China; ²Xiamen Entry-Exit Inspection and Quarantine Bureau, Xiamen, China; ³PerkinElmer Management (Shanghai) Co, Shanghai, China; ⁴PerkinElmer LAS Canada Inc, Woodbridge, ON
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- TP 190 Analysis of Pesticide Residues in Cannabis Regulated

- by Oregon State using LC-MS/MS; Sharanya Reddy¹; Ben Armstrong²; Steve Stadlmann²; Toby Astill³; ¹PerkinElmer, Shelton, CT; ²Juniper Labs, Bend, Oregon; ³PerkinElmer Inc., San Jose, CA
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 D. Murdoch¹; James E. Keating¹; Nicholas J. Wallbillich¹;
 Gary L. Glish¹; **Iuniversity of North Carolina at Chapel Hill,
 Department of Chemistry, Chapel Hill, NC
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 1 ThermoFisher Scientific, San Jose, CA; 2 FERA, Sand Hutton, UK; 3 ThermoFisher, San Jose, CA; 4 Thermo Fisher Scientific, Bremen, Germany
- TP 197 Analysis of Mycotoxins in Food Matrices using HPLC/ MS/MS; Theresa Sosienski¹; Dan-Hui Dorothy Yang¹; Joan Stevens²; Christian Hegmanns³; Patrick Jeanville¹; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Wilmington, DE; ³Agilent Technologies Sales & Services GmbH & Co. KG, Waldbronn, Germany
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- TP 200 I Knew You Were Trouble: Expanding LC Methods to Include Difficult GC Compounds using a Novel Ionization Technique; Susan Leonard¹; Kari Organtini¹; Gareth Cleland¹; Gordon Fujimoto²; Kenneth Rosnack¹; Ramesh P Rao³; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Beverly, MA; ³Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- TP 201 Sensitive and Specific Allergen Screening Analysis Using LC-MS/MS; Paul C. Winkler¹; Hua-Fen Liu²; Christopher Borton²; Leesun New²; ¹Sciex, Framingham, MA; ²SCIEX, Redwood City, CA
- TP 202 Simultaneous Analysis of Major Allergens in Food Matrices by High Sensitive Mass Spectrometer; Tairo Ogura; Shimadzu Scientific Instruments, Inc., Columbia, MD
- TP 203 Simultaneous Determination of 16 Mycotoxins



- in Cereals using Stable Isotope Labeled Internal Standards and UHPLC-MS/MS; Qilei Guo¹; Jian zhong Li¹; Tao Bo¹; ¹Agilent Technologies, Beijing, China
- TP 204 Development of a Multi-Residue Confirmatory Method for Determination of Sedatives by HPLC-MS/MS; Pavel Metalnikov 1; Ilya Batov 1; Renat Selimov 1; Alexander Komarov 1; **IVGNKI, Moscow**, Moscow**
- TP 205 On-Line Liquid-Liquid-Gas Chromatogrpahy-FID/
 QQQ MS for Mineral Oil Saturated and Aromatic
 Hydrocarbons Determination in Vegetable Oil;
 Mariosimone Zoccali¹; Paola Dugo¹.2.3; Luigi Mondello¹.2.3;
 ¹Chromaleont s.r.l., Messina, Italy; ²Dipartimento di Scienze
 Chimiche, Biologiche, Farmaceutiche ed Ambientali,
 University of Messina, Messina, Italy; ³Unit of Food Science
 and Nutrition, Department of Medicine, University Campus
 Bio-Medico of Rome, Roma, Italy
- TP 206 An Automated Technique for Multiresidue Analysis of Pesticides in Agricultural Samples; Rudolf Addink¹; Hamid R Shirkhan¹; ¹Toxic Report, Watertown, MA
- TP 207 Multi-residue Veterinary Drug Analysis of >200
 Compounds using MRM Spectrum Mode by LC-MS/
 MS; David Baker¹; Laetitia Fages²; Eric Capodanno²; Neil
 Loftus¹; Simon Ashton¹; ¹Shimadzu, Manchester, UK;
 ²Phytocontrol, Nimes, France
- TP 208 Multi-Residue Pesticide Analysis in Food Matrices using HPLC/MS/MS; Theresa Sosienski¹; Dan-Hui
 Dorothy Yang¹; Joan Stevens²; Patrick Jeanville¹; ¹Agilent
 Technologies, Inc., Santa Clara, CA; ²Agilent Technologies,
 Inc., Wilmington, DE
- TP 209 Matrix-effect Free Quantitative Analysis using Nanoflow Liquid Chromatography High Resolution Mass Spectrometry; David Moreno-González¹; Jaime Alcantara-Durán¹; Antonio Molina-Díaz¹; Juan F Garcia-Reyes¹; ¹university of Jaen, Jaen , Andalucia
- TP 210 Solid Phase Extraction and SFC-MS/MS Method for Analysis of Aflatoxins M1, M2, B1, B2, G1 and G2 in Milk Powders; Jun Xiang Lee¹; Yin Ling Chew¹; Zhaoqi Zhan¹; Jie Xing¹; ¹Shimadzu (Asia Pacific) Pte Ltd, Singapore
- TP 211 Development of Sensitive and Selective Methods for Identification of Marine Toxins by Liquid Chromatography Tandem Mass Spectrometry; Manami Kobayashi¹; Junichi Masuda¹; Yoshihiro Hayakawa²; ¹Shimadzu Corporation, Hadano-city, Japan; ²Shimadzu Corporation, Kyoto-city, Japan
- TP 212 Determination of Chemical Contaminants in Indian Prawns by Fast GC-MS/MS using Modified QuEChERS as an Extraction Method; <u>Durvesh Sawant</u>¹; Prashant Hase¹; Jitendra Kelkar¹; Ankush Bhone¹; Sanket Chiplunkar¹; Dheeraj Handique¹; Nitish Suryawanshi¹; Ajit Datar¹; Pratap Rasam¹; *Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India
- TP 213 A Streamlined Multi-Residue Method for Quantitation and Confirmation of Selected Veterinary Drug Residues in Milk by High-Resolution Mass Spectrometry; Kithsiri B Herath¹; Hernando Escobar¹; Lauren A. Girard¹; Sherri B. Turnipseed²; Philip J. Kijak¹; Hiranthi Jayasuriya¹; ¹Center for Veterinary Medicine/FDA, Laurel, MD; ²U.S. Food and Drug Administration, Denver, CO
- TP 214 DART-FTMS Detection of Melamine-Lactose Adducts and Condensation Products in Experimentally Adulterated Milk Powders; Peter Scholl 1; Luke K Ackerman1; Joseph H LaPointe2; Zhuohong Xie3; Jeffrey C Moore3; 1US FDA, College Park, MD; 2IonSense Inc., Saugus, MA; 3U.S. Pharmacopeia, Rockville, MD
- TP 215

 Development of Compounds Identification by
 Using Various Chromatography and Multiple Mass
 Spectrometry in Food Adulteration; Chun-Ye Sun¹; ShaoZhen Wang¹; Heng-Tao Dong¹; ¹Agilent Technology, Inc.,
 Shanghai, China

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- TP 216 Glyco-signature for Human Saliva: Human Saliva can be Determined by Highly Fucosylated Glycans; Hantae Moon^{1,2}; Bum Jin Kim^{1,2}; Hyun Joo An^{1,2}; ¹Chungnam National University, Daejeon, South Korea; ²Asia Glycomics Reference Site, Chungnam National University, South Korea
- TP 217 Multivariate Data Analysis in the Interpretation of GC-MS fire Debris Results; Marco Pazzi¹; Laura Pacifici¹; Eugenio Alladio¹,²; Fabrizio Malaspina³; Marco Vincenti¹,²; ¹Dipartimento di Chimica, Università degli Studi di Torino, Torino, Italy; ²Centro Regionale Antidoping e di Tossicologia "A. Bertinaria", Regione Gonzole 10/1, 10043 Orbassano (Torino), Italy; ³Corpo Nazionale Vigili del Fuoco Comando di Torino, Unità di Intervento Nucleare Biologico Chimico Radiologico, Torino, Italy
- TP 218 Quantitation of THC and Metabolites in Whole Blood By LC-MS/MS For Per Se Law Testing; Diana Tran¹,²; Xiang He²; Tracy Blethen²; Kevin Kopp³; Matt Kopp³; Alexandre Wang²; Hua-Fen Liu²; ¹, Redwood City, CA; ²SCIEX, Redwood City, CA; ³UTAK Laboratories Inc. Valencia. CA
- TP 219 Multi-targeted Screening Procedures to Detect Prohibited Substances by LC-MS-based Techniques in Doping Control: Evaluation of Different Extraction Protocols; Fabio Comunità¹; Xavier de la Torre¹; Monica Mazzarino¹; Francesco Botrè^{1, 2}; ¹Antidoping laboratory of Rome, Rome, Italy; ²Università Degli Studi di Roma "Sapienza", Rome, Italy
- TP 220 Doping Control Analysis of Two Major JWH-250 Urinary Metabolites, JWH-250 4-OH-pentyl and JWH-250 5-OH-pentyl, in Equine urine by LC-MS/MS; Youwen You^{1,2}; Rachel M. Proctor^{1,2}; Eric D. Vasilko^{1,2}; Mary A. Robinson^{1,2}; *IUniversity of Pennsylvania, Kennett Square, PA; *PA Equine Toxicology & Research Laboratory, West Chester, PA
- TP 221 Drug Analysis in Urine by Thermal Desorption and Pyrolysis Combined with DART-MS (TDP/DART-MS);

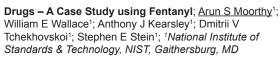
 Hiroko Abe¹; Chikako Takei²; Yasuo Shida²; Motoshi
 Sakakura³; Teruhisa Shiota³; Kayako Suga⁴; Daisuke
 Yajima¹; Hirotaro Iwase¹,⁵; ¹University of Chiba, Chiba,
 Japan; ²BioChromato, Inc., Fujisawa, Japan; ³AMR Inc.,
 Meguro-ku, Japan; ⁴SCIEX, Shinagawa, Japan; ⁵University
 of Tokyo, Bunkyo, Japan
- TP 222 Strategies for Multiple-Target Screening using LC-MS/MS with Merged Spectrum Database for Forensic Toxicology; <u>Toshikazu Minohata</u>¹; Yutaro Yamamura¹; ¹Shimadzu Corporation, Kyoto, Japan
- TP 223 A Novel Liquid Chromatography Tandem Mass Spectrometry Method Detection of Deinagkistrodon acutusvenom in vivo; Hangqi Li¹; Jia Lin¹; Chao Zhang²; Peibin Qin²; Huaidong Yu²; ¹Institute of Forensic Science of Fujian Public Security Department, Fuzhou, China; ²SCIEX Asia Pacific Application Support Center, Beijing, China
- TP 224 Rapid Analysis of Protein Toxins using Hot Acid Digestion and MALDI-TOF with Post-Source Decay;

 Dapeng Chen¹; Wayne A. Bryden²; Catherine Fenselau¹;

 Department of Chemistry and Biochemistry, University of Maryland, College Park, MD; 2Zeteo Tech LLC, Ellicott City, MD
- TP 225 The Utility and Legality of Using Portable, Ambient Sampling Mass Spectrometers in Traffic Stops;

 Alessandra M. Bruno¹; Scott Cleary¹; Michael C. Gizzi²;
 Christopher C. Mulligan¹; ¹Department of Chemistry, Illinois State University, Normal, IL; ²Department of Criminal Justice Sciences, Illinois State University, Normal, IL
- TP 226 The Advantages of Direct Analysis of Morphine and its Metabolites with Related Compounds in Urine by LC-MS/MS; Justin Steimling¹; Frances Carroll¹; Susan Steinike¹; ¹Restek Corporation, Bellefonte, PA
- FORENSICS II TP 227 A New Algorithm for Identifying Emerging Designer

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- TP 229 Automated Semi-Quantitative Screening of Benzodiazepines and Designer Benzodiazepines in Human Serum using LC-ion Trap-MS; Ronja Peter^{1,2}; Maurice Wilde^{2,3}; Jürgen Kempf²; ¹Offenburg University of Applied Sciences, Offenburg, Germany; ²Institute of Forensic Medicine, Forensic Toxicology, Medical Center University of Freiburg, Freiburg, Germany; ³Hermann Staudinger Graduate School, University of Freiburg, Freiburg, Germany
- TP 230 Separation of Isomeric Cannabinoids by High-Resolution Ion Mobility-MS for the Differentiation of Legal and Illegal Marijuana; Marianne Hädener¹; Marc Gonin²; Michael Kamrath²; Wolfgang Weinmann¹; Michael Groessl³; ¹University of Bern, Bern, Switzerland; ²TOFWERK, Thun, Switzerland; ³University Hospital Bern, Bern, Switzerland
- TP 231 Development of an Extraction Method for Identification of a Biomarker of Sarin Exposure in Hair; Ronald Evans¹; Richard J Lawrence¹; Susan L. Byers²; Christopher E Byers¹; Paul Demond²; ¹U.S. Army ECBC, APG-EA, MD; ²Excet, Inc., Springfield, VA
- TP 232 Generic Extraction Method for Screening of 8 Drugs of Abuse in Saliva with a Quick Turnaround Analysis by LDTD-MS/MS; Sylvain Letarte¹; Jonathan Rochon²; Serge Auger³; Jean Lacoursiere³; Pierre Picard³; ¹Phytronix Instruments, Boisbriand, QC; ²Universite Laval, Quebec, QC; ³Phytronix Technologies, Quebec, QC
- TP 233 Characterizing Exongenous Marijuana Components in Breath using a Novel Collection Device and Gas Chromatography/Mass Spectrometry; Bruce A. Benner¹; D'Nisha D. Hamblin¹; Michele M. Schantz¹; William A. MacCrehan¹; José R. Almirall²; ¹NIST, Gaithersburg, MD; ²Florida International University, Miami, FL
- TP 234 Comparison between High-resolution Separation and Site-specific-enzymatic Identification of Aspartic Acid and Asparagine Racemization, Isomerization, and Racemization in Eye Lens Crystallins; Kaitlin Long¹; Mehdi Moini²; ¹George Washington University, Washington, DC; ²George Washington University, Washington, DC
- TP 235 Quick Identification of Uranium Compounds using Thermal Ionization Time-of-Flight Mass Spectrometry;

 Dongfa Guo¹; Zengwei Fan¹; Guifang Liu¹; Yuang Liu¹; Shengkai Xie¹; Jianyong Cui¹; ¹Beijing Research Institute of Uranium Geology, Beijing, China
- TP 236 Optimization of Peptide Generation from Human Hair for Proteomic Analysis; Zachary C Goecker¹; Glendon J Parker¹; Robert H Rice¹; Michelle R Salemi²; Brett S Phinney²; ¹University of California, Davis, Davis, CA; ²Proteomics Core Facility, Genome Center, University of California, Davis, Davis, CA
- TP 237 "Fowl" Odors: Identification of Blow Fly Attraction
 Cues in Decomposing Chicken Livers; Justine E. Giffen¹;
 Jennifer Y. Rosati²; Rabi A. Musah¹; ¹University at AlbanySUNY, Albany, NY; ²John Jay College of Criminal Justice,
 New York, NY
- TP 238 Bouquet of Death: Determination of Carrion Flower Blowfly Attractants by Ambient Mass Spectrometry;
 Rabi Musah¹; Justine E. Giffen¹; Jennifer Y. Rosati²; Kristen Fowble¹; ¹University at Albany-SUNY, Albany, NY; ²John Jay College of Criminal Justice, New York, NY
- TP 239 Comparison of Screening and Quantitative LC-MS-

- MS Analysis of Drugs and Their Metabolites on Triple Quadrupole and Quadrupole Orbitrap Mass Spectrometers; Rory M Doyle¹; <u>Kevin McHale</u>¹; ¹Thermo Fisher Scientific, Somerset, NJ
- TP 240 LC-MSMS Analysis of Serum Samples for the Detection and Quantification of Corticosteroids in Equine Sport;

 <u>Erin Crum</u>¹; Jeshurun Benavides¹; Nina Salazar¹; Richard Sams¹; ¹LGC Ltd US, lexington, KY
- TP 241 Development of Succinylcholine Chloride in Biologic Extracts using Liquid Chromatography-Tandem

 Mass Spectrometry; Dai-Yong Huang¹; Jun-Gang Lu²;
 Cai-Yong Lin²; Zhi-quan Yuan²; Shan-An Chan³; ¹Agilent Technologies Ltd. Hong Kong, Hong Kong, Hong Kong;
 ²Agilent Technologies (China), Guangzhou, China; ³Agilent Technologies Inc., Taipei, Taiwan

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 Cryogenic Mass-Selective Trap; Matthew Bell¹; Nicolas
 C Polfer¹; ¹University of Florida, Department of Chemistry,
 Gainesville, FL
- TP 243 IRPD Spectroscopy of Metal Cationized Ions Generated by MADLI Source: What is New?; Xianglei Kong; Nankai University, Tianjin
- TP 244 Exploring Gas-Phase Structures and Properties of DNA-based Cation-Radicals with UV Action Spectra and Excited State Computations; Andy Dang¹; Joseph A. Korn¹; Frantisek Turecek¹; ¹University of Washington, Seattle. WA
- TP 245

 Gas-Phase Conformations and N-Glycosidic Bond Stabilities of Sodium Caionized Cytosine Nucleosides: Solution Conformation of [Cyd+Na]+ is Preserved upon ESI; Yanlong Zhu¹; Lucas A. Hamlow¹; Chenchen He¹; Harrison A. Roy¹; Nathan Cunningham¹; Musleh Munshi²; Giel Berden²; Jos Oomens²; Mary T. Rodgers¹; ¹Wayne State University, Detroit, MI; ²FELIX Facility, Radboud University, Netherlands
- TP 246 Cryogenic Spectroscopy of the Protonated Serine Octamer; Valeriu Scutelnic¹; Marta Perez¹; Aurelien Gregor¹; Ursula Röthlisberger¹; Thomas R. Rizzo¹; ¹EPFL, Lausanne, Switzerland
- TP 247 A Cryogenic Linear Ion Trap for Fluorescence Spectroscopy; Alessandra Ferzoco¹; Vaishnavi Rajagopal¹;

 ¹Rowland Institute at Harvard, Cambridge, MA
- TP 248 Gas-phase Infrared Spectroscopy of Proteins and Protein Assemblies; Stephan Warnke¹; Jongcheol Seo²; Waldemar Hoffmann²; Michael T. Bowers³; Kevin Pagel⁴; Gert von Helden²; ¹École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland; ²Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Berlin; ³University of California Santa Barbara, Santa Barbara, CA; ⁴Freie Universität Berlin, Berlin, Germany
- TP 249 Characterizing Peptideβ-Hairpin Loops via Cold Ion Spectroscopy of Model Compounds; John Thomas
 Lawler¹; Christopher P Harrilal¹; Andrew DeBlase¹; Scott A McLuckey¹; Timothy S Zwier¹; ¹Purdue University, West lafayette, Indiana
- TP 250 Structural and Energetic Characterization of Modified Nucleosides on a Bruker amaZon ETD Quadrupole Ion Trap Mass Spectrometer; Lucas Hamlow¹; Yanlong Zhu¹; Zachary Devereaux¹; Mary T. Rodgers¹; ¹Wayne State University, Detroit, MI
- TP 251 Effect of Ion Cooling in Ion Trap RF Fields; Sergey Poteshin¹; Anna Burykina¹; Nikita Komar¹; *National Research Nuclear University MEPHI, Moscow, Moscow
- TP 252 Long Distance Ion-Water Interactions in Aqueous Sulfate Nanodrops Orient Surface Water Molecules up to Tropospheric Temperatures; Matthew J. DiTucci¹; Christiane N. Stachl¹; Evan R. Williams¹; ¹University of



- California, Berkeley, Berkeley, CA
- TP 253 Probing Conformational Isomerization and Relative Abundances between Major Conformers of 10K Gas Phase [YAP(D-Pro)AA+H]+ Ions using IR-UV Double Resonance; Christopher Harrilal¹; Andrew DeBlase¹; Joshua Fischer¹; John T Lawler¹; Nicole L Burke¹; Timothy S Zwier¹; Scott A McLuckey¹; *Purdue University, West Lafayette
- TP 254 Photodissociation Action Spectroscopy of Protonated N-containing Aromatic Ions: Can We Predict Photodissociation Pathways?; James Bezzina¹; Stephen J Blanksby²; Adam J Trevitt¹; ¹University of Wollongong, Wollongong, NSW; ²Queensland University of Technology, Brisbane. Australia
- TP 255 Reactivity and Kinetics of Ortho-substituted
 Phenylnitrenes; Christopher Haskins¹; Paul G Wenthold¹;

 ¹Purdue University, West lafayette, Indiana
- TP 256 Energetics and Mechanism of CO2 Activation by Gadolinium Cation (Gd+); Maria Demireva¹; Peter B. Armentrout¹; ¹University of Utah, Salt Lake City, UT
- TP 257 Investigation on the Unimolecular and Collisional-Activated Fragmentation Mechanisms of diethyltoluidines with Isotopic Labelling Experiments; Sarah Seulen¹; Jurgen Grotemeyer¹; ¹Christian Albrechts University at Kiel, Institute for Physical Chemistry, Kiel, Germany
- TP 258 Fragmentation Mechanisms of Azo Dye Molecules
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 Grotemeyer¹; ¹Christian Albrechts University at Kiel, Institute
 for Physical Chemistry, Kiel, Germany
- TP 259 The Structure of Fell-Aerobactin Complexes: an Empirical and Theoretical Study; Daryl Giblin¹; Jan R Crowley²; Hung Tran²; Michael L. Gross³; Jeffrey P. Henderson²; ¹Washington University, St Louis, MO; ²Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO; ³Department of Chemistry, Washington University, St. Louis, MO
- TP 260 Anionic Carbohydrate Gas-Phase Chemistry: Gelling Experimental and Theoretical Methods; Jordan M Rabus¹; Benjamin J Bythell¹; ¹University of Missouri-St. Louis, St. Louis, MO
- TP 261 Radical-Mediated Reactions of Peptide Radical Cations: Isomerization versus Dissociation; Xiaoyan Mu¹;
 Justin Kai-Chi Lau².³; Alan C. Hopkinson²; Ivan K. Chu¹;

 ¹University of Hong Kong, Hong Kong; ²York University,
 Toronto, ON; ³University of Windsor, Windsor, ON
- TP 262 Fragmentation Reactions of a7 lons from Singly Protonated Model Heptapeptides Containing Glutamine Residue; Ahmet Emin Atik¹; Alex. G. Harrison²; <u>Talat Yalcin¹</u>; 'Iyte, Urla-Izmir; '2University of Toronto, Toronto, ON
- TP 263 Gas-Phase Acidities and Conformations of Oligopeptide Epimers with D- and L-Cysteine; Yuntao Zhang¹; Zachary Buen¹; Jianhua Ren¹; ¹University of the Pacific, Stockton, CA
- TP 264 Investigation of the Self-Assembly Mechanism of Sandwich-Type Polyoxometalates using Mass spectrometry and X-raycrystallography; Jie Cao¹; Chang-Wen Hu¹; Lin-Yuan Fan¹; ¹Beijing Institute of Technology, Beijing, China
- TP 265 Fragmentation and H/D Exchange Studies of Tetrapeptides Containing Lysine Homologues; Melanie A

 Berger¹; Zachariah I. Hasan¹; Anna Do¹; Danielle A. Long¹;

 Anwar Radwan¹; John Poutsma¹; ¹College of William &

 Mary, Williamsburg, VA
- TP 266 IRMPD Studies of b2 and b3 lons From Lysine Analog-Containing Peptides; Zachary M. Smith¹; Vincent Steinmetz²; Arpad Somogyi³; Vicki H. Wysocki³; John Poutsma¹; ¹College of William & Mary, Williamsburg, VA; ²Universite de Paris Sud, Orsay, France; ³Ohio State University, Columbus, OH
- TP 267 Role of Residual Water Molecules into a Linear Ion

- Trap Cell on Re-Orientation of Aspartate and Glutamate Anion Dissociations; Pierre Barbier Saint Hilaire¹; Yves Gimbert²; Anna Warnet¹; Annelaure Damont¹; Marie-Françoise Olivier¹; Benoit Colsch¹; François Fenaille¹; Christophe Junot¹; Jean-Claude Tabet¹.³; ¹CEA, iBiTecS, SPI, Laboratoire d'Etude du Métabolisme des Médicaments, MetaboHUB-Paris, Université Paris Saclay, Gif-sur-Yvette cedex, France; ²Université Grenoble Alpes (DCM), CNRS-UJF 5250, BP 38041, Grenoble, France; ³Sorbonne Universités, UPMC Univ Paris 06, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France
- TP 268 An Ion Mobility Database of Metal-Coordinated Peptide Ions: General Structural Effects upon Alkali, Alkaline-earth, or Transition-metal Interaction; Jonathan Dilger¹; David E Clemmer²; ¹Naval Surface Warfare Center, Crane Division, Crane, IN; ²Indiana University Bloomington, Bloomington, IN
- TP 269 Size-selective Anion Binding by Cucurbit[5]uril Characterized Using SORI-CID Techniques; Jiewen Shen¹; David V. Dearden²; ¹Brigham Young University, Provo, UT; ²Brigham Young University, Provo, UT

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- TP 270 Chemometric Methods for Analysis of Graftagerelated Black Tea Aroma Variation by Solid Phase Mirco-extraction and Gas Chromatography-Mass Spectrometry; Wei Chen¹; Wenwen Wang²; Chengying Ma¹; Junxi Cao¹; Aiqing Miao¹; Shi Pang¹; ¹Tea Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou, China; ²Agilent Technologies (China), Beijing, China
- TP 271 Atmospheric Pressure Gas Chromatography/Mass Spectrometry for the Analysis of Organochlorine Pesticides, Polychlorinated Biphenyls and Polybrominated Diphenyl Ethers in Human Serum; Jing Fang¹; Xiubao Huang¹; Yanhao Zhang¹; Hongzhi Zhao¹; Zongwei Cai¹; ¹State Key Laboratory of Environmental and Biological Analysis, Department of Chemistry, Hong Kong Baptist University, Hong Kong, Hong Kong
- TP 272 Simultaneous Determination of 12 Tobacco Alkaloids inE-liquids for Electronic CigarettesUsing Gas
 Chromatography Mass Spectrometry Method; Shulei
 Han¹; Yaning Fu¹; Tong Liu¹; Huan Chen¹; Hongwei Hou¹;
 Qingyuan Hu¹; ¹China National Tobacco Quality Supervision
 & Test Centre, Zhengzhou, China
- TP 273 Determination of Fatty Acid Esters of 2- and 3-monochloro-1,2-propanediol (MCPD) and Glycidol in Edible Oil Using GC-Triple Quadrupole Mass Spectrometry; Samuel Chao Ming Yeo¹; Crystal Hui Xian Yeong¹; Kok Ming Goh²; Chin Pang Tan²; May Yen Ang³; Lai Chin Loo¹; ¹Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore; ²Department of Food Technology, Faculty of Food Science and Technology, Universiti Putra Malaysi, 43400 UPM Serdang, Malaysia; ³Shimadzu Malaysia Sdn Bhd, Taman Sains Selangor I, Malaysia
- TP 274 Quantifying Flavorings in E-cigarette Aerosol as a Function of Power Applied to the Heating Coil; Nicholas Wallbillich¹; Gary Glish²; ¹UNC, Chapel Hill, NC; ²Professor, Chapel Hill, North Carolina
- TP 275 Analysis of Cannabidiols found in Cannabis by Thermal Desorption GC/MS; Ronald Shomo¹; Christopher Baker¹; john manura¹; ¹Scientific Instrument Services, Ringoes, NJ
- TP 276 Diagnostically Important Ions in Mass Spectra of Silyl, Sulfonyl, Alkoxycarbonyl and Perfluoroacyl Derivatives of Substituted Phenols; Nino G. Todua¹; Levan A. Megutnishvili²; Anzor I. Mikaia²; ¹NIST / Dakota C., Gaithersburg, MD; ²NIST, Gaithersburg, MD
- TP 277 Integrated Microextraction, Syringe Headspace, and



TP 278 Off-flavour Analysis in Food Using a Simple and Rapid Solid Phase Microextraction-GC/Triple Quadrupole Mass Spectrometry Method with Dedicated Off-flavour Database; Samuel Chao Ming Yeo¹; Cynthia Melanie Lahey¹; Lai Chin Loo¹; ¹Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore

- TP 279 Qualitative Profiling of Co-polymer Polyethylene Terephthalate through Multifunctional Pyrolyzer-GC/MS by various Thermal Treatment Techniques;

 Guo Wei Elgin Ting¹; Stephany Olivia²; Chiang Yong Douglas Chong³; Hui Xian Crystal Yeong¹; Lai Chin Loo¹; ¹Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd, Cintech IV, Singapore Science Park, Singapore; ²Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore; ³Department of Chemistry, Faculty of Science, National University of Singapore. Singapore
- TP 280 Analysis of Fast Moving Consumer Goods (FMCG) using GCMS with Static and Dynamic Headspace (HS);

 Dheeraj Handique¹; Ankush Bhone¹; Prashant Hase¹;

 Sanket Chiplunkar¹; Durvesh Sawant¹; Nitish Suryawanshi¹;

 Ajit Datar¹; Jitendra Kelkar¹; Pratap Rasam¹; ¹Shimadzu

 Analytical (India) Pvt. Ltd., Mumbai, India
- TP 281 Addressing the Challenges of Short Chained Chlorinated Paraffins Analysis using Orbitrap GC-MS;
 Cristian Cojocariu¹; Paul Silcock²; ¹Thermo Fisher Scientific, Runcorn, UK; ²Thermo Fisher Scientific, Runcorn, Cheshire
- TP 282 Characterization of Perfumes via Tandem Vacuum
 Ultraviolet Spectroscopy and Mass Spectrometry; Ian
 Anthony¹; Adam R. Floyd¹; Christina A. Gaw¹; Matthew R.
 Brantley¹; Touradj Solouki¹; ¹Baylor University, Waco, Texas
- TP 283 Fluorine Tagging for Quantification of Krebs Cycle Metabolites using Gas-Chromatography Plasma
 Assisted Reaction Chemical Ionization Mass
 Spectrometry; Michael Dolan¹; Kunyu Zheng²; Steven
 Peyton³; Amrita Cheema³; Kaveh Jorabchi²; ¹Georgetown
 University, Washington, DC; ²Georgetown University,
 Washington, DC; ³Georgetown University Medical School,
 Washington, DC
- TP 284 Loss of SO2 from o-Nitro Substituted Diaryl Sulfides and Related Compounds; Yufang Zheng¹; Quanlong Pu²; Edward White V²; Stephen E. Stein²; ¹NIST / Dakota C., Gaithersburg, MD; ²NIST, Gaithersburg, MD
- TP 285 Method for Determining Kinetic Parameters of Chemical Warfare Nerve Agent Decomposition via Pyrolysis GC-MS; Jeffrey Michael Mcguire¹; John C Carpin¹; William T Muse¹; ¹US Army ECBC, Aberdeen Proving Ground, MD
- TP 286 Analysis of Modified Graphene Oxidenanomaterial using STA/FT-IR/GC-MS; Xiaoying Yan¹; Zhuo Man²; Xiangdong Zhou²; Jason Weisenseel³; Yong-Ming Xie²; ¹National Center for Nanoscience and Technology, Beijing, China; ²PerkinElmer Management (Shanghai) Co, Shanghai, China; ³PerkinElmer, Shelton, CT
- TP 287 Analysis of Unknown Contaminants in Interior Air Spray using TGA/FT-IR/GC-MS; Fei Zhang¹; Zhuo Man²; Xiangdong Zhou²; Desmond Wichems³; Yongming Xie²; ¹Peking University, Beijing, Beijing; ²PerkinElmer Management (Shanghai) Co, Shanghai, China; ³PerkinElmer Inc., San Jose, CA
- TP 288 Evaluation of select-eV, two-dimensional-GC and Large Volume Injection on the Limits of Detection and Quantification of Cannabinoids in Hair Samples; Emma Beasley¹; Geraint Morgan²; Tom Bassindale¹; ¹Sheffield Hallam University, Sheffield, UK; ²The Open University, Milton Keynes, UK
- TP 289 Headspace Solid Phase Micro-Extraction (HS-SPME)

Frazier Wood¹; ¹Southern Illinois University, Carbondale, IL Identification of Salivary Metabolomics Biomarkers of Chronic Kidney Disease and Their Association with Periodontitis; Levy Alves¹.².².³.⁴; Rafael Celestino Souza³; Taciana Mara Couto da Silva Mara Couto da Silva³; Meriellen Dias².⁵; Deise Garrido³.⁵; maria anita mendes².⁵; Ana Lidia Ciamponi³.⁵; ¹Guarulhos University, São Paulo, SP; ²Dempster Mass Lab- POLI- USP, Sao Paulo, Brazil; ³Dental School of USP, São Paulo, Brazil; ⁴Paulista University, São Paulo, Brazil; ⁵Universidade de São Paulo - USP, Sao Paulo, South America

of Volatile Compounds Encapsulated in Flash Frozen

Coffee Extracts: Mary Elizabeth Gimon-Kinsel¹; Jackson

- TP 291 Evaluation of a High-Sensitivity GC-MS/MS in the Analysis of Pesticide Residues in Complex Samples:

 Cost Savings and Other Benefits; Katerina Mastovska¹;
 Lukas Vaclavik²; Melissa Churley³; Thomas P. Doherty³;

 ¹Covance, Madison, Wl; ²Covance, Harrogate, UK; ³Agilent Technologies, Inc., Santa Clara, CA
- TP 292 Applying Pyrolysis GC/MS to the Characterization of Agricultural Formulations; Todd Kajdan; Dow AgroSciences, Indianapolis, IN
- TP 293 GCMS and NMR Based Chemometrics of Distillates;

 Mary Jean Riches¹; Kaylen Obray¹; Karolien Denef¹; Claudia
 Boot¹; Chris Rithner¹; ¹Colorado State University, Fort
 Collins. CO
- TP 294 Determination of Retention Indices of Organic Compounds in Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry (GCxGC-MS);

 Dmitrii Mazur¹; Olga Polyakova¹; Albert Lebedev¹; ¹M.V.
 Lomonosov Moscow State University, Moscow, Russia
- TP 295 Fast Screening and Quantitation of Perfluorinated Sources from Textiles Using Gas Chromatography Chemical Ionization Mass Spectrometry; Hui Xian Crystal Yeong¹; Stephany Olivia²; Lai Chin Loo¹; ¹Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd, 79 Science Park Drive, #02-01/08, Cintech IV, Singapore Science Park 1, Singapore 118264, Singapore, Singapore; ²Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link SPMS-04-01, Singapore 627371, Singapore, Singapore
- TP 296 Fast and Accurate Quantitation of Perfluorinated Sources from Textiles Using Gas Chromatography-Triple Quadrupole Mass Spectrometry; Hui Xian Crystal Yeong¹; Stephany Olivia²; Cynthia Melanie Lahey¹; Guo Wei Elgin Ting¹; Lai Chin Loo¹; ¹Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd, 79 Science Park Drive, #02-01/08, Cintech IV, Singapore Science Park 1, Singapore 118264, Singapore, Singapore; ²Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link SPMS-04-01, Singapore 627371, Singapore, Singapore
- TP 297 Determination of Cannabinoids from a Surrogate Hops Matrix Using Multiple Reaction Monitoring Gas Chromatography Triple Quadrupole Mass Spectrometry; Allegra Leghissa¹; Kevin A. Schug²;

 ¹University Of Texas, Arlington, Arlington, TX;
 ²University of Texas, Arlington, TX

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- TP 298 A Method for the Quantitative Monitoring of Site-Specific Glycosylation of Proteins in Large Sample Set Analysis; Elisha Goonatilleke¹; Jincui Huang¹; Lauren Dimapasoc Wu¹; Gege Xu¹; Carlito B Lebrilla¹; ¹University of California, Davis, Davis, CA
- TP 299 Site-Specific Fucosylation Analysis of Glycoproteins



- from Aggressive Prostate Cancer Cells Using Affinity Enrichments of Intact Glycopeptides Followed by Mass Spectrometry; <u>Jianliang Zhou</u>¹; Weiming Yang¹; Yingwei Hu¹; Naseruddin Hoti¹; Punit Shah¹; Hui Zhang¹; ¹Johns Hopkins University School of Medicine, Baltimore, MD
- TP 300 Comparison of Site-Specific N-Glycoproteins between Human and Mouse Plasma Using LC-MS/MS and Database Search; Juyeon Lee^{1, 2}; Hyun Kyoung Lee^{1, 3}; Gun Wook Park¹; Kun Cho^{1, 2}; Jeong Gu Kang²; Yong-Sam Kim²; Jeong-Heon Ko²; Jin Young Kim¹; Jong Shin Yoo¹; ¹Korea Basic Science Institute, 162 YeonGuDanji-Ro, Ochang-eup, Cheongwon-gu, Cheongju, South Korea; ²Korea Institute of Bioscience and Biotechnology, Daejeon, South Korea; ³Graduate School of Analytical Science and Technology, Daejeon, South Korea
- TP 301 Glycosylation Analysis of Spike Protein from Infectious Bronchitis Viruses with Different Tissue Binding Properties; Lisa Parsons¹; Kim Bouwman²; Helene Verheije²; John F Cipollo¹; ¹FDA, Silver Spring, MD; ²Utrecht University, Utrecht, Netherlands
- TP 302 Glycoproteomics Analysis to Examine the Role of Chlamydial Protease-Like Activity Factor; Christa Feasley¹; Fred Zinnel²; Julian Saba³; Stuart McCorrister⁴; Garrett Westmacott⁴; Grant McClarty⁴; Chris Grant⁴; ¹Thermo Fisher Scientific, West Palm Beach, Florida; ²Thermo Fisher Scientific, Somerset, NJ; ³Thermo Fisher Scientific, Mississauga, Ontario; ⁴National Microbiology Laboratory, Public Health Agency of Canada, Winnipeg, MB
- TP 303 Glycoproteomic Analysis of Temozolemide-Resistant Glioma Cells by MALDI-TOF/TOF MS and nano-HPLC-QTOF-MS/MS; Milan Teraiya¹; Emy Komatsu¹; Jenna Noordenbos²; Helene Perreault³; Vincent C Chen²;

 1 University of Manitoba, Winnipeg, MB; 2 Brandon University, Department of Chemistry, Brandon, MB; 3 University of Manitoba, Winnipeg, MB
- TP 304 Global Analysis of Secreted N-Glycoproteins in MCF7
 Cells Using Click Chemistry-Based Enrichment and
 Mass Spectrometry; Fangxu Sun¹; Haopeng Xiao¹;
 Ronghu Wu¹; ¹Georgia Institute of Technology, Atlanta, GA
- TP 305 Quantitative Analysis of N- and O- Glycans from Cerebrospinal Fluid in Alzheimer's Disease Patients;

 Byeong G. Cho¹; Aiying Yu¹; Lucas Veillon¹; Yehia Mechref¹;

 ¹Texas Tech University, Lubbock, TX
- TP 306 Site-Specific Characterization and Quantitation of N-Glycoproteins in Breast Cancer Cells Using DiLeu Isobaric Tags Enabled by Electron-Transfer/Higher-Energy Collision Dissociation (EThcD); Zhengwei Chen¹; Qing Yu¹; Ling Hao¹; Fabao Liu¹; Jill Johnson¹; Zichuan Tian¹; Wei Xu¹; Lingjun Li¹; ¹University of Wisconsin Madison, Madison, WI
- TP 307 Systematic Investigation of Glycan Maturity on Human Cell Surface Glycoproteins; Suttipong Suttapitugsakul¹; Johanna Smeekens¹; Haopeng Xiao¹; Ronghu Wu¹;

 ¹Georgia Institute of Technology, Atlanta, GA
- TP 308 Mass Spectrometry-Based Characterization of Recombinant Human Immunodeficiency Virus Type 1 (HIV-1) Envelope (Env) Glycoprotein; Vaneet Kumar Sharma; International AIDS Vaccine Initiative (IAVI), New York, NY
- TP 309 An Insight into Glyco-microheterogeneity of Plasma von Willebrand Factor (vWF) by MS Spectrometry; Ebtesam
 Gashash^{1, 2}; Arya Aloor¹; He Zhu¹; Cong Xiao¹; Ding Liu¹;
 Jing Song¹; Cheng Ma¹; Weidong Xiao³; Peng Wang¹;

 ¹GSU, Atlanta, GA; ²Albaha University, Baljurashi, Saudi
 Arabia; ³Sol Sherry Thrombosis Research Center, Temple
 University, Philadelpha, PA 19140
- TP 310 A Novel Method Combining Enzymatic and Chemical Reactions to Identify Glycoproteins with the Tn Antigen;

 Jiangnan Zheng¹; Haopeng Xiao¹; Ronghu Wu¹; ¹Georgia
 Institute of Technology, Atlanta, GA

- TP 311 Effects of Illiciting Immune Response in Rabbits on IgG N-Glycans; Tyler Fletcher¹; Ron Orlando¹; ¹University of Georgia, Athens, GA
- TP 312 Glycan Heterogeneity Differentiation Using Lectin-Based SDC Separation and Glycopeptide level SDC Separation; Wonryeon Cho; Wonkwang University, Iksan, Jeonbuk
- TP 313 Assisting the Characterization of IgG Glycosylation with a Hydrophilic Interaction Liquid Chromatography Retention Model for Glycopeptides; Emily Betchy¹; Barry Boyes²; Ron Orlando¹; ¹CCRC, University of Georgia, Athens, GA; ²Advanced Materials Technology, Wilmington, DE
- TP 314 Characterization of Glycan Structures of Zika Virus;

 Zhichao Zhang¹; Christopher Brown²; Yixiang zhang²; David
 E Clemmer²; ¹Indiana University, Bloomington, IN; ²Indiana
 University Bloomington, Bloomington, IN
- TP 315 Comparative Glyomic Approaches for Assessment of Glycosylation in a Therapeutic Glycoprotein; Nayoung Yun^{1, 2}; Nari Seo^{2, 3}; Unyong Kim²; Myung Jin Oh^{2, 3}; Hyun Joo An^{2, 3}; †Chungnam National University, Daejeon, Chungcheongnam; ²Asia Glycomics Reference Site, Daejeon, South Korea; ³Chungnam National University, Daejeon, South Korea
- TP 316 Workflows for the Identification and Relative
 Quantitation of Glycan Variants; Stephen Madden¹; Aaron
 Boice¹; Aditi Koul¹; Caroline S. Chu¹; ¹Agilent Technologies,
 Inc., Santa Clara, CA
- TP 317 Identification of Glycoprotein Biomarkers for Hepatocellular Carcinoma; Cristina Di Poto¹; Minkun Wang¹; Shan Su¹; Junfeng Ma¹; Habtom W. Ressom¹; ¹Georgetown University, Lombardi Cancer Center, Washington. DC
- TP 318 Glycoproteomic Identification and Quantification of Human Plasma with IQ-GPA and Database Search;

 <u>Gun Wook Park</u>¹; Jin Young Kim¹; Ju Yeon Lee¹; Heeyoun Hwang¹; Hyun Kyoung Lee¹; Eun Sun Ji¹; Kwang Hoe Kim¹, ²; Hoi Keun Jeong^{1, 2}; Ki Na Yun^{1, 3}; Yong-Sam Kim⁴; Jeong-Heon Ko⁴; Jong Shin Yoo^{1, 2}; ¹Biomedical Omics Group, Korea Basic Science Institute, Cheongju-si, South Korea; ²Graduate School of Analytical Science and Technology, Chungnam National University, South Korea; ³Department of Chemistry, Sogang University, 35 Baekbeom-ro, Mapogu, South Korea; ⁴Cancer Biomarkers Development Research Center, Korea Research Institute of Bioscience and Biotechnology, Daejeon, South Korea
- TP 319 Global and Site-Specific Analysis Reveals Unexpected and Extensive Protein S-GlcNAcylation in Human Cells; Haopeng Xiao¹; Ronghu Wu¹; ¹Georgia Tech , Atlanta, GA
- TP 320 New Analytical Platform to Explore Haptoglobin Glycosylation Using Intact Glycoprotein; Unyong Kim^{1, 2}; Hantae Moon^{1, 2}; Sung Hyun Lee³; Myung Jin Oh^{1, 2}; Jua Lee^{1, 2}; Seung Hyup Jeong^{1, 2}; Hyun Joo An^{1, 2}; ¹Asia Glycomics Reference Site, Chungnam National University, South Korea; ²Chung Nam Univ., Daejeon; ³Glycan Inc., Seongnam-si, South Korea
- TP 321 Mass Spectrometry Analysis of Platelet Glycome Using Intact Glycopeptides Analysis Approach; Punit Shah¹; Hui Zhang¹; ¹Johns Hopkins University, Baltimore, MD
- TP 322 An O-Glycosylated Archaeal Flagellin Extensively
 Adorned with Two Unusual Saccharides; Hong Hanh
 Nguyen¹; Nicole Poweleit¹; Deborah Leon²; Catherine E.
 Costello²; Joseph A Loo¹; Robert P. Gunsalus¹; Rachel R.
 Ogorzalek Loo¹; ¹UCLA, Los Angeles, California; ²Boston
 University, Boston, MA
- TP 323 Mapping Site-Specific N-Glycosylation of B-Cell Receptor in B-Cell Lymphomas; Kuan-Ting Pan¹; Carmen Doebele²; Kay-Hooi Khoo³; Thomas Oellerich^{4, 5, 6}; Henning Urlaub^{1, 7}; ¹Bioanalytical Mass Spectrometry, MPI for Biophysical Chemistry, Goettingen, Germany; ²Department of Hematology/Oncology, Johann Wolfgang



TP 324 Site-Specific and Structural Analysis of Protein O-Mannosylation in Saccharomyces cerevisiae; Haopeng Xiao¹; Ronghu Wu¹; ¹Georgia Institute of Technology, Atlanta, GA

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- TP 325 Imaging Mass Spectrometry of Image-Guided Drug
 Delivery (IGDD) in Thermochemical Ablation; Chunxiao
 Guo¹; Dodge Baluya¹; Rick Layman¹; Erik Cressman¹; ¹MD
 Anderson, Houston, TX
- TP 326 Visualizing Chemical Communication Governing Metastasis of Ovarian Cancer with Imaging Mass Spectrometry; Katherine Zink¹; Joanna E Burdette²; Matthew Dean²; Laura M Sanchez²; ¹, Chicago, IL; ²University of Illinois at Chicago, Chicago, Illinois
- TP 327 Feasibility Studies in Imaging Mass Spectrometry for Evaluating Thermoembolization, a New Interventional Oncologic Technique; Chunxiao Guo¹; Dodge Baluya¹; Rick Layman¹; Erik Cressman¹; ¹MD Anderson, Houston, TX
- TP 328 Liquid Chromatography-Mass Spectrometry-Based Metabolomics and Lipidomics Reveal Toxicological Mechanism of Bisphenol F in Breast Cancer Xenografts; Chao Zhao¹-²; Peisi Xie³; Yuanyuan Song¹; Ti Yang¹; Zhi Tang¹; Hailin Wang²; Zongwei Cai¹; ¹state Key Laboratory of Environmental and Biological Analysis, Department of Chemistry, Hong Kong Baptist University, Hong Kong SAR, China; ²State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China; ³Ministry of Education Key Laboratory of Analysis and Detection Technology for Food Safety, Fuzhou University, Fuzhou, China
- TP 329 Multiscale Mass Spectrometry Imaging of Colorectal Cancers by MALDI, DESI and SIMS; Rory T Steven¹; Adam J Taylor¹; Spencer A Thomas¹; Alan M Race¹; Gregory Hamm²; Nicole Strittmatter²; Rasmus Havelund¹; Renata F Soares³; Andrew D Campbell⁴; Owen J Sansom⁴; Richard J. A. Goodwin⁵; Zoltan Takats³; Josephine Bunch¹; ¹National Physical Laboratory, Teddington, UK; ²AstraZeneca R&D, Cambridge, UK; ³Imperial College London, London, London; ⁴Beatson Institute for Cancer Research, Bearsden, UK; ⁵Astrazeneca, Cambridge, UK
- TP 330 Mass Spectrometric Analysis of Endogenous Small Molecules and Chemotherapeutic Doxorubicin in a Three-Dimensional Cell Culture Model of Osteosarcoma; leva Palubeckaite¹; Neil Cross¹; Christine Le Maitre¹; David Smith¹; Chris Sammon¹; Malcolm Clench¹; ¹Sheffield Hallam University, Sheffield, UK
- TP 331 Technical Challenges of Mass Spectrometry Imaging of Doxorubicin Localization in Rat Liver Treated with Drug-Eluting Beads; Dodge Baluya¹; Andrea Cortes¹; Hideyuki Nishiofuku¹; Rony Avritscher¹; Erik Cressman²;

 1MD Anderson Cancer Center, Houston, TX; 2MD Anderson, Houston, TX
- TP 332 Gold Nanoparticles as MALDI MSI Matrix for Imatinib Distribution and Quantitation Analysis Inside Tumor Tissues; Silvia Giordano¹; Lavinia Morosi¹; Francesca Falcetta¹; Mridula Prasad²; Ilaria Fuso Nerini¹; Simonetta Andrea Licandro¹; Roberta Frapolli¹; Paolo Ubezio¹; Maurizio D'Incalci¹; Massimo Zucchetti¹; Pietro Franceschi²;

- Sonja Visentin³; Enrico Davoli¹; ¹Mario Negri Institute, Milano; ²Fondazione E.Mach, San Michele all'Adige, Italy; ³University of Torino, Turin, Italy
- TP 333 Mapping the Brain Neurotransmitter Network with MALDI MS Imaging; Mohammadreza Shariatgorji¹; Luke Odell¹; Anna Nilsson¹; Elva Fridjonsdottir¹; Luay Katan¹; Jonas Sävmarker¹; Matthias Witt²; Per Svenningsson³; Per E. Andren¹; ¹Uppsala University, Uppsala, SE; ²Bruker Daltonics, Bremen, Germany; ³Karolinska Institutet, Stockholm, Sweden
- TP 334 Matrix Assisted Laser Desorption Ionization Imaging Mass Spectrometry of Human Osteoarthritis Cartilage Reveals the Intra-Tissue Metabolic Heterogeneity;

 Maxime Eveque-Mourroux^{1, 2, 3}; Pieter Emans²; Tim Welting²; Annelies Boonen³; Ron Heeren¹; Berta Cillero-Pastor¹;

 ¹Maastricht Multi-Modal Molecular Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands; ²Maastricht University Medical Center, Department of Orthopedic Surgery, Maastricht, Netherlands; ³Maastricht University Medical Center, Caphri Research institute, Maastricht, Netherlands
- TP 335 Visualizing NMF Distribution across the Human Face by 2D-DESI MS Imaging of Tape-Stripped Stratum Corneum; Keishi Kihara¹; Akira Motoyama¹; ¹Shiseido Co., LTD., Yokohama, Kanagawa
- TP 336 Pseudomonas aeruginosashifts its Specialized Metabolism in Response to Biofilm Inhibitors.; Alanna Condren¹; Laura M. Sanchez¹; ¹University of Illinois, Chicago, Illinois
- TP 337 Analyzing Liposomal Drug Delivery Systems in Three-Dimensional Cell Culture Models Using MALDI-Imaging Mass Spectrometry and Fluorescence Microscopy; <u>Jessica K. Lukowski</u>¹; Eric M. Weaver²; Amanda B. Hummon²; ¹, Notre Dame, IN; ²University of Notre Dame, Notre Dame, IN
- TP 338 MALDI Imaging of Lipase Activity on Textile Surfaces; Jonatan Hall-Andersen¹; Svend G. Kaasgaard²; <u>Christian Janfelt¹</u>; ¹University of Copenhagen, Copenhagen, Denmark; ²Novozymes A/S, Bagsvaerd, Denmark
- TP 339 Demonstrating the Applicability of DESI Imaging Coupled with Ion Mobility for Mapping Cosmetic Ingredients on Tape Stripped Skin Samples; Eleanor Riches¹; Oliver O. Burt¹; Philippa J. Hart¹; Emmanuelle Claude¹; Malcolm R. Clench²; ¹Waters Corporation, Wilmslow, UK; ²Spectrometry Imaging, Biomolecular Sciences Research Centre, Sheffield Hallam University, Howard Street, Sheffield, UK
- TP 340 Laden Latents: Revealing Human Handling of Psychoactive Plant Materials through Biomarker Fingerprint Imaging by MALDI-SpiralTOF High-Resolution Mass Spectrometry; Cameron M. Longo¹; Rabi A. Musah¹; ¹University at Albany-SUNY, Albany, NY
- TP 341 Mass Spectrometry Imaging of Neurotransmitters in Brain Tissue after Intake of Drugs of Abuse; <u>Ludovic Muller</u>¹; Shelley N. Jackson¹; Amina S. Woods¹; ¹NIH/NIDA-IRP, Baltimore, MD
- TP 342 Mass Spectrometry Imaging of Small Xenobiotics on *Danio rerio*: Influence of Molecular Profiles Modification as Potential Localization Asset.; Mathieu Tiquet¹; Marc Muller²; Edwin De Pauw¹; **Mass Spectrometry Laboratory, Liège, Belgium; **2GIGA-R: Biologie et génétique moléculaire, Liège, Belgium
- TP 343 Optimizing Physical Properties of Formulations Using LAESI Mass Spectrometry; Suresh Annangudi¹; Erin Gemperline²; Gary Gustafson²; Kyung Myung²; Jeffrey Gilbert²; Steve Wilson²; ¹Dow Agrosciences, Indianapolis, IN; ²Dow AgroSciences, Indianapolis, IN
- TP 344 Localisation of Caffeoyl Quinates in Developing



- Beans of Robusta Coffee (Coffea canephora); Gerhard Saalbach¹; Cathie Martin¹; James McCarthy²; Daniel Knevitt¹; ¹John Innes Centre, Norwich, Norfolk; ²Nestlé Research and Development Center Tours France, Tours. France
- TP 345 Visualization of Abscisic Acid and 12-Oxo-Phytodienoic Acid in Immature *Phaseolus vulgaris* L. Seeds Using Desorption Electrospray Ionization-Imaging Mass Spectrometry; Hirofumi Enomoto¹; Takuya Sensu¹; Futoshi Sato²; Emi Yumoto¹; Takao Yokota¹; Hisakazu Yamane¹; ¹Department of Biosciences, Faculty of Science and Engineering, Teikyo University, Utsunomiya, Japan; ²Waters Corporation, Shinagawa, Japan
- TP 346 Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging (MALDI-MSI) for Direct Visualization of Wheat Grain Metabolites; Shabarinath Nambiar¹; Robert Trengove¹; Sze How Bong¹; Joel Gummer¹; ¹Murdoch University, Murdoch , WA
- TP 347 GCIB-ToF-SIMS High Resolution Imaging of Cardiolipin Speciation in the Brain: Identification of Molecular Losses after Traumatic Injury; L.J. Sparvero¹; Hua Tian²; Andrew A Amoscato¹; Anna Bloom²; Nicholas Winograd²; Valerian E Kagan¹; Hülya Bayır¹; ¹University of Pittsburgh, Pittsburgh, PA; ²Pennsylvania State University, State College. PA
- TP 348 Comparative Tissue Imaging for Disease
 Characterization Using DESI Coupled with Uniform
 Field Drift Tube Ion Mobility High Resolution Mass
 Spectrometry; Ruwan T Kurulugama¹; Joseph H Kennedy²;
 Brian C Laughlin²; Justin M Wiseman²; George Stafford¹;
 John Fjeldsted¹; ¹Agilent Technologies Inc., Santa Clara,
 California; ²Prosolia Inc., Indianapolis, IN
- TP 349 Comparison of Laser Ablation Atmospheric Pressure Photoionization (LAAPPI) and Laser Ablation Electrospray Ionization (LAESI) in MS Imaging of Animal Tissue; Juha-Pekka Hieta¹; Anu Vaikkinen¹; Heikki Räikkönen¹; Jaakko Kopra¹; Petteri Piepponen¹; Markus Haapala¹; Tiina J. Kauppila¹; ¹University of Helsinki, Helsinki, Finland
- TP 350 Spatial Mapping of Metabolites and Neurotransmitter in Rat Brain Sections Using DESI Ion Mobility Mass Spectrometry; Anthony J. Midey¹; Hernando J. Olivos¹; Michael Batey²; Emmanuelle Claude²; Bindesh Shrestha³; ¹Waters Corporation, Beverly, MA; ²Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK; ³Waters Corp., Beverly, MA

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- TP 351 Crosstalker: An Open and Flexible Network and Pathway Analysis Platform; Sean Maxwell^{1, 2}; Mark R. Chance^{1, 2}; **Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH; **2Department of Nutrition, Case Western Reserve University, Cleveland, OH
- TP 352 Multiomics Data Integration Using Anatomical Ontologies; Magnus Palmblad; Leiden University Medical Center, Leiden, Netherlands
- TP 353 Proteogenomics Reveals a Complicated Feature of the Molecular Characteristics of Colorectal Cancer in AOM/DSS Mouse Model; Qingfei Pan^{1, 2}; Yingying Xie¹; Lylia Drici³; Yanxia Liu¹; Lei Sun¹; Honggang Huang³; Bo Wen²; Martin Røssel Larsen³; Xiaomin Lou¹; Yan Ren²; Lin Wu¹; Peter Roepstorff³; Siqi Liu^{1, 2}; 'Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China; ²BGI-Shenzhen, Shenzhen, China; ³Protein Research Group, Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense, Denmark
- TP 354 Proteogenomics of Adenosine-to-Inosine RNA Editing

- in Fruit Fly; Ksenia G Kuznetsova¹; Irina Y Ilina¹; Alexey L Chernobrovkin²; Svetlana E Novikova¹; Tatyana E Farafonova¹; Dmitry S Karpov³; Mark I Ivanov⁴,⁵; Olga E Voronko¹; Victor G Zgoda¹; Roman A Zubarev²; Mikhail V Gorshkov⁴,⁵; Sergei A Moshkovskii¹,⁶; ¹Institute of Biomedical Chemistry, Moscow, Russia; ²Karolinska Institute, Stockholm, Uppland; ³Engelhardt Institute of Molecular Biology, Moscow, Russia; ⁴Institute of energy problems of chemical physics Russian Academy of Sciences, Moscow, Russia; ⁵Moscow institute of physics and technology, Dolgoprudnyj, Russia; ⁵Pirogov Russian National Research Medical University (RNRMU), Moscow, Russia
- ProteomeGenerator: Integrative Proteomics and TP 355 **Transcriptomics for Non-Canonical Proteome** Discovery; Paolo Cifani¹; Avantika Dhabaria²; Akihide Yoshimi³; Omar I. Abdel-Wahab³; John T. Poirier^{1, 4}; Alex Kentsis^{1, 5}; ¹Molecular Pharmacology Program, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center, New York, NY; 2New York University Langone Medical Center, New York, NY; 3Human Oncology & Pathogenesis Program, Memorial Sloan Kettering Cancer Center, New York, NY; ⁴Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, NY: 5Department of Pediatrics, Weill Medical College of Cornell University and Memorial Sloan Kettering Cancer Center, New York, NY TP 356 Integrated Data Analysis Pipelines for Meta-Omics; Sujun Li1; Yuzhen Ye1; Haixu Tang1; 1Indiana University,
- Bloomington, IN

 Proteogenomics of Malignant Melanoma Cell Lines:
 Searching for Genetically Encoded Point Mutations in
 LC-MS/MS Data; Anna Lobas¹; Alexey L Chernobrovkin²;
 Irina Ilina³; Dmitry S Karpov³.⁴; Mikhail Pyatnitskiy³;
 Elizaveta M Solovyeva¹.⁵; Ksenia G Kuznetsova³; Mark I
 Ivanov¹.⁵; Roman Zubarev²; Mikhail V Gorshkov¹.⁵; Sergei A
 Moshkovskii³; ¹INEPCP RAS, Moscow, Russia; ²Karolinska
 Institute, Stockholm, Uppland; ³Institute of Biomedical
 Chemistry, Moscow, Russia; ⁴Engelhardt Institute of
 Molecular Biology, Moscow, Russia; ⁵Moscow Institute of
 Physics and Technology (State University), Dolgoprudnyj,
 Russia
- TP 358 A Linear Algebraic Approach to Combine Top Down and Bottom Up Data and Accurately Determine Protein Modform Distributions; Philip Compton¹; Neil L Kelleher²; Jeremy Gunawardena³; **Northwestern University, Evanston, IL; **Northwestern University, Evanston, IL; **Harvard Medical School, Boston, MA**
- TP 359 Automated Visualization of Metabolome, Proteome and Fluxome Data on Garuda a Connectivity Platform for Biomedical Analytics; Fumio Matsuda¹; Yohei Yamada²; Samik Ghosh³; Takeshi Hase³; Syohei Kinoshita¹; Shunsuke Nishino¹; Atsumi Tomita¹; Nikolaos Tsorman³; Atsuhiko Toyama²; Shigeki Kajihara²; Norio Mukai²; Yukiko Matsuoka³; Hiroshi Shimizu¹; Eiichiro Fukisaki¹; Hiroski Kitano³; Junko Iida².⁴; ¹Osaka University, Suita, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³The Systems Biology Institute, Tokyo, Japan; ⁴Osaka University Shimadzu Analytical Innovation Research Laboratory, Suita, Japan
- TP 360 Phenome Study on the Tissues of Esophageal Squamous Cell Carcinoma; <u>Guixue Hou</u>1; Shaohang Xu1; Bo Wen1; Xiaomin Lou2; Yan Ren1; Jin Zi1; Siqi Liu1; *1BGI-Shenzhen, Shenzhen, China; *2Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China
- TP 361 A Sparse Latent Regression Approach for Integrative Analysis of glycomic and Glycotranscriptomic Data; Xuefu Wang¹; Sujun Li¹; Shiyue Zhou²; Yehia Mechref²; Haixu Tang³; ¹School of Informatics and Computing, Indiana University, Bloomington, IN Indiana; ²Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX; ³Indiana University, Bloomington, IN
- TP 362 Multi-Omic Informatics in the Cloud: Galaxy-P Takes a



- TP 363 Blood Metabolomics and Transcriptomics Define Metabolic Axes of Human Immune Response to Herpes Zoster Vaccine; Shuzhao Li¹; Dean P Jones¹; Bali Pulendran¹; ¹Emory University, Atlanta, Georgia
- TP 364 A Galaxy-Based, Multi-Staged, Two-Step Searching Pipeline for Improved Peptide Identification in Next Generation Proteomic Studies; Praveen Kumar¹; James Johnson²; Thomas Mcgowan²; Candace R. Guerrero¹; Pratik Jagtap¹; Tim Griffin¹; ¹University of Minnesota, Minneapolis, MN; ²Minnesota Supercomputer Institute, Minneapolis, MN
- TP 365 Enhancing the Multi-omics Visualization Platform (MVP) Plug-in for Galaxy-based Applications; Thomas Mcgowan^{1, 2}; James Johnson^{1, 2}; Pratik Jagtap¹; Praveen Kumar¹; Getiria Onsongo^{1, 2}; Candace R. Guerrero¹; Tim Griffin^{1, 3}; *1University of Minnesota, Minneapolis, MN; *2Minnesota Supercomputer Institute, Minneapolis, MN; *3Center for Mass Spectrometry and Proteomics, St. Paul, MN
- TP 366 Transcriptome and Proteome Co-Analysis of High-Fat Diet Induced Hepatic Changes; <u>Devin Lee Drew</u>¹; Prasanna Rajagopal²; Michelle Puchowicz³; Daniela M Schlatzer³; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bengaluru, India; ³Case Western Reserve University School of Medicine, Cleveland, OH
- TP 367 Proteogenomic Analysis of 31 Human Tissues; Thomas Wieland¹; Dongxue Wang²; Björn Hallström³; Li-Hua Li²; Anna Asplund⁴; Mathias Wilhelm²; Frederik Ponten⁴; Mathias Uhlen³; Hannes Hahne¹; Bernhard Kuster⁵; ¹OmicScouts GmbH, Freising, Germany; ²Technical University of Munich, Freising, Germany; ³KTH Royal Institute of Technology, Stockholm, Sweden; ⁴Uppsala University, Uppsala, Sweden; ⁵Technical University Munich, Freising, Germany
- TP 368 Examining Codon Usage as a Potential Marker of Extracellular Proteins in Microbes; Alexander Cope¹.

 2; Michael Gilchrist¹; Robert L Hettich²; **Iuniversity of Tennessee, Knoxville, TN; **2Oak Ridge National Laboratory, Oak Ridge , TN
- TP 369 MS-Helios: A Circos Wrapper to Visualize Multi-Omic Datasets; Harald Marx¹; Joshua J Coon¹; ¹University of Wisconsin-Madison, Madison, WI

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- TP 370 Multi-Q 2: Automated and Robust Isobaric Labeling Quantitation Analysis with Enhanced Graphical Visualization of Protein Ratio Clustering; Ching-Tai Chen¹; Cheng-Wei Cheng¹; Wei-Jhe Hsu²; Hui-Yin Chang¹; Chu-Ling Ko³; T. Mamie Lih¹.⁴; Yi-Ju Chen⁴; Yu-Ju Chen⁴; Wen-Lian Hsu¹; Ting-Yi Sung¹; ¹Institute of Information Science, Academia Sinica, Taipei, Taiwan; ²Department of Electrical & Computer Engineering, Texas A&M University, College Station, TX; ³Department of Computer Science, National Chiao Tung University, Hsin Chu, Taiwan; ⁴Institute of Chemistry, Academia Sinica, Taipei City, Taiwan
- TP 371 Automated Identification of Intact N-Linked Glycoproteins with Multiple Protein Search Engines;
 Cheng-Wei Cheng^{1, 2}; Wen-Lian Hsu³; Ting-Yi Sung³;

 ¹Bioinformatics Program, Taiwan International Graduate Program, Institute of Information Science, Academia Sinica, Taipei, Taiwan; ²Institute of Biomedical Informatics, National Yang-Ming University, Taipei, Taiwan; ³Institute of Information Science, Academia Sinica, Taipei, Taiwan

- An Enhanced High-Throughput Quantitation Pipeline to Facilitate Transformative Top-Down Proteomics in the National Resource for Translational and Developmental Proteomics; Ryan T. Fellers¹; Richard D. LeDuc¹; Bryan P. Early¹; Joseph B. Greer¹; Alexandra J. Van Nispen¹; Paul M. Thomas¹; Neil L. Kelleher¹; **Northwestern University, Evanston, IL
- TP 373 PyGrouper: A Gene-Level Inference and Quantification Algorithm for Bottom-Up Proteomics Data; Alexander B.

 Saltzman¹; Mei Leng¹; Anna Malovannaya¹; ¹Baylor College of Medicine, Houston, TX
- TP 374 Flexible Learning Infrastructure for Proteomics;
 Christopher Wilkins¹; Justice DR Sefas¹; Aivett Bilbao
 Pena¹; Richard D Smith¹; Ljiljana Pasa-Tolic¹; Samuel
 H Payne¹; Jared B Shaw¹; ¹Pacific Northwest National
 Laboratory, Richland, WA
- TP 375 Building Peptide Spectra Library by Spectral Clustering Using Graphics Processing Units (GPUs); Paul TO¹; Henry LAM¹; ¹Division of Biomedical Engineering and Department of Chemical and Biomolecular Engineering, Hong Kong University of Science and Technology, Hong Kong, Hong Kong
- TP 376 Enhanced Ion Charging Effect of m-Nitro Benzyl Alcohol (m-NBA) on Protein and Peptides Characterization; Dipankar Malakar¹; faraz rashid¹; Manoj Pillai¹; ¹ABSCIEX, Gurgaon, Haryana
- TP 377 Automated Workflow for Host Cell Protein Monitoring by Mass Spectrometry: from Raw Data to Final Report; Stefano Gotta; Genedata AG, Basel, Switzerland
- TP 378 Application of Novel SILAC Analysis Software
 Proteolabels for Large-Scale Meta-Analysis of
 Phospho-Proteomes; Andrew Collins^{1, 2}; Antony McCabe^{1, 2}; Augustine Amakiri¹; Ian Morns³; Robert Tonge⁴;
 Johannes P.C. Vissers⁴; Andrew R Jones^{1, 2}; ** *University of
 Liverpool, Liverpool, UK; **2Omic Analytics, Liverpool, UK;
 **3Waters Corporation, Newcastle upon Tyne, UK; **4Waters
 Corporation, Wilmslow, UK

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- TP 379 Plasma Pyrolysis Mass Spectrometry for the Diagnosis of Leishmaniasis; Amanda Kretsch¹; Guido F. Verbeck¹;

 1 University of North Texas, Denton, TX
- TP 380 Automatic Construction of t-SRM Methods from Unscheduled SRM Data Raw Files Using the Xcalibur Workbench; Qingyu Song¹; Mike Senko¹; Derek Bailey¹; Balaram Barange¹; ¹Thermo Fisher Scientific, San Jose, CA
- TP 381 Resonance Effects in a Linear Ion Trap Driven by Rectangular RF Waveforms and AC Signals Applied in Dipolar Mode; Alexander Lekkas¹; Andreas Bozatzidis¹; Dimitris Papanastasiou²; ¹Fasmatech Science & Technology, Athens, Greece; ²Fasmatech, Athens, Attiki
- TP 382 A RF Transfer Interface Operable over an Extended Pressure Range for Gating High Mass Ions into an oTOF Mass Spectrometer; Alexander Lekkas¹; Dimitris Papanastasiou²; Diamantis Kounadis¹; Emmanuel Raptakis¹; Gerard van der Laan³; Jan Commandeur³; ¹Fasmatech Science & Technology, Athens, Greece; ²Fasmatech, Athens, Attiki; ³MS VISION, Almere, Netherlands
- TP 383 Energy resolved Mass Spectrometry (ER-MS) in UPLC Timescales Using an Orthogonal Acceleration Quadrupole ToF with Novel Fast Acquisition Architecture; Martin Green¹; Jason wildgoose¹; Keith Richardson¹; Williams Jonathan¹; Martin Palmer¹; ¹Waters Corporation. Wilmslow. UK
- TP 384 AcroMass MS Processor: a Flexible Data System in Ion Trap Mass Spectrometry for Intact Protein Analysis; Szu-Wei Chou¹; Shih-Chieh Yang¹; Yao-Hsin Tseng¹; Yi-Kun Lee¹; Liang-Chun Fan¹; Chun-Yen Cheng¹; ¹AcroMass technologies, Inc., Taipei



- TP 385 Design and Performance of a Second Generation Cyclic Ion Mobility-Enabled Q-ToF; Kevin Giles¹; Jakub Ujma¹; Jason Wildgoose¹; Martin R. Green¹; Keith Richardson¹; David Langridge¹; Nick Tomczyk¹; ** Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- TP 386 A Flexible, Cheap, Easy to Construct, and Effective Heater for Small Diameter Polymeric Tubing; Ryan T.

 Hilger¹; James R. Zimmerman¹; ¹Jonathan Amy Facility for Chemical Instrumentation, Purdue University, West Lafayette, Indiana
- TP 387 Application of High Speed TSQ MS with a Prototype RF/DC Rod Driver to Pesticide Analysis; Harald Oser¹; Hans Schweingruber¹; Michael Ugarov¹; QINGYU SONG²; Michael Konicek²; Claudia Martins¹; Neloni Wijeratne²;

 1 Thermo Fisher Scientific, San Jose, California; Thermo Fisher Scientific, San Jose, CA
- TP 388 Realistic Ion Inputs and their Corresponding Instantaneous Current Demands; Russell Jurek; ETP Ion Detect, Clyde, NSW
- TP 389 New Innovations Implemented on the Q Exactive HF
 Mass Spectrometer; Tabiwang N. Arrey¹; Eugen Damoc¹;
 Erik Couzijn¹; Jens Grote¹; Oliver Lange¹; Christian
 Thoeing¹; Kerstin Strupat¹; Catherina Crone¹; Anastassios
 Giannakopulos¹; Thomas Moehring¹; Alexander Harder¹;

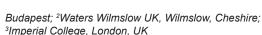
 1 Thermo Fisher Scientific, Bremen, Germany
- TP 390 Fully Automated Platform for Determination of Benzodiazepines in Serum; Davide Vecchietti¹; Claudio Ghilardi¹; Katharina Kern²; Stéphane Moreau³; Isabel Cabruja¹; ¹Shimadzu Italy, Milan, Italy; ²Recipe Chemicals + Instruments GmbH, Munich, Germany; ³Shimadzu Europe GmbH, Duisburg, Germany
- TP 391 A High Performance OA-ToF Mass Spectrometer for Accurate Mass Measurement of Mobility Separated Ions; Jason Wildgoose¹; Martin R. Green¹; Jakub Ujma¹; Kevin Giles¹; **Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- TP 392 Run, MS, Run! Increasing System Robustness with Ion Control; Brent Lefebvre¹; Yang Kang¹; Mauro Aiello¹; Bradley B Schneider¹; J.C. Yves Leblanc¹; ¹SCIEX, Concord, ON. ON
- TP 393 Cluster Analysis of Small Organic Molecules by Means of a LTP-Twin-Trap Mass Spectrometer; Björn Raupers¹; Claus Köster²; Tassilo Muskat¹; Jürgen Grotemeyer¹; ¹Inst. f. Phys. Chem der CAU zu Kiel, Kiel; ²Bruker Daltonics, Bremen. Germany
- TP 394 ECD in an RF-Free Electromagnetostatic hv-ExD Cell on a High Resolution/High Throughput Q-Exactive Orbitrap Mass Spectrometer; Kyle L. Fort¹; Albert J. R. Heck¹; Valery G. Voinov².³; Yury Vasil¹ev².³; Joseph S. Beckman³; Utrecht University, Utrecht; ²e-MSion, Corvallis, OR; ³Linus Pauling Institute, Oregon State University, Corvallis, OR
- TP 395 Ice Formation on Nanoparticles in a Molecular Flow
 Linear Quadrupole Ion Trap; Denis Duft¹; Mario Nachbar¹.

 ²; Thomas Dresch²; Thomas Leisner¹.²; ¹Institute for
 Meteorology and Climate Research Atmospheric Aerosol
 Research, Karlsruhe Institute of Technology, Karlsruhe,
 Germany; ²Institute of Environmental Physics, RuprechtKarls-University Heidelberg, Heidelberg, Germany
- TP 396 **RF Trap with Paracell Geometry**; Ekaterina Zhdanova¹; Vasiliy Eliferov¹; Igor Popov¹; Eugene (Evgeny) Nikolaev¹. 2.³; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia; ²Skolkovo institute of science and technology, Skolkovo, Russia; ³Institute of energy problems of chemical physics Russian Academy of Sciences. Moscow. Russia
- TP 397 Implementation of 213 nm Ultra Violet Photo
 Dissociation (UVPD) on a Modified Orbitrap Fusion
 Lumos; Christopher Mullen¹; Chad R Weisbrod²; Eugene
 Zhuk¹; Romain Huguet¹; Jae C Schwartz³; ¹Thermo Fisher
 Scientific, San Jose, CA; ²National High Magnetic Field

- Laboratory, Florida State University, Tallahassee, FL; ³Thermo Fisher Scientific, San Jose, California
- TP 398 A Comparative Study of Commercial Electrospray Ionization Sources for Qualitative and Quantitative Proteomic Studies; Melissa R. Pergande¹; R.A.C.
 Rathnayake¹; Carol Haney-Ball²; Vadiraja Bhat³; Stephanie M. Cologna¹; ¹University of Illinois at Chicago, Chicago, IL; ²Agilent Technologies Inc., Santa Clara, California; ³Agilent Technologies, Inc., Wilmington, DE
- TP 399 Improving MS Performance by Improving High Voltage Power Quality; James Morrison¹; <u>Gary Byfield</u>²; ¹Brave-Blue, Manlius, NY; ²Advanced Energy Industries, Inc., Fort Collins, Colorado
- TP 400 Determination of the Analytical Figures of Merit for the Qsight Triple Quadrupole; <u>Joshua Wilhide</u>¹; lan W Shaffer¹; William R LaCourse¹; 'University of Maryland Baltimore County, Baltimore, MD
- TP 401 Measurement of Effective Radial Geometry of Non-Hyperbolic Linear Ion Trap; Chuan-Fan Ding; Fudan University, Shanghai, China

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- TP 402 Exploring the Benefits and Unique Applications of Cold El for LC-MS; Svetlana Tsizin¹; Tal Alon¹; Alexander B. Fialkov¹; Aviv Amirav¹; Tel Aviv University, Tel Aviv, Israel
- TP 403 CHARON PTR-ToF-MS: a New Method for Real-Time Measurement and Molecular-Level Characterization of Submicron Particulate Organic Matter; Philipp Eichler¹; Markus Mueller^{1, 2}; Andreas Klinger²; Armin Wisthaler^{1, 3}; Alfons Jordan²; ¹Institut für Ionenphysik und Angewandte Physik, Universität Innsbruck, Innsbruck, Austria; ²IONICON Analytik GmbH., Innsbruck, Austria; ³Department of Chemistry, University of Oslo, Oslo, Norway
- TP 404 Scent Transmission over the Internet Using Mass Spectrometry; Fred Paul Mark Jjunju¹; Giannoukos Stamatios¹; DANIEL McGuiness¹; Alan Marshall¹; Valerio Selis¹; Jeremy Smith¹; Simon Maher¹; Stephen Taylor¹; ¹Department of Electrical Engineering and Electronics University Of Liverpool, Liverpool, UK
- TP 405 Pyrolysis -Vacuum Assisted Plasma Ionization Ion Mobility-Mass Spectrometry for Insoluble Polymer Analysis; Stephen Zambrzycki¹; Matthew C Bernier²; James Bradshaw³; Facundo M Fernandez⁴; ¹Georgia Institute of Technology, Atlanta, Georgia; ²Georgia Institute of Technology, Atlanta, GA; ³Y-12 National Security Complex, Oak Ridge, Tennessee; ⁴Georgia Institute of Technology, Atlanta, GA
- TP 406 Radio Frequency Powered Liquid Sampling-Atmospheric Pressure Glow Discharge (LS-APGD) Ionization Source for Atomic Mass Spectrometry; Tyler Williams¹; Kenneth Marcus¹; ¹Clemson University, Clemson, SC
- TP 407 **Desorption Ionization Using Through Hole Alumina Membrane (DIUTHAME)**; <u>Yasuhide Naito</u>¹; Takayuki
 Ohmura²; Masahiro Kotani²; ¹*GPI*, *Hamamatsu*, *Japan*;
 ²*Hamamatsu Photonics K.K.*, *Iwata*, *Japan*
- TP 408 Development of a New Atmospheric Pressure Plasmaspray Ionization and Its Comparison with Electrospray Ionization; Ping Cheng; School of Environmental and Chemical Engineering, Shanghai University, Shanghai, Shanghai
- TP 409 Numerical Simulation of Ion Transport in a Nano-Electrospray Ion Source; Wei Wang^{1, 2}; Steve Bajic¹; Benzi John²; David Emerson²; ¹Waters Corporation, Wilmslow, UK; ²STFC Daresbury Laboratory, Warrington, UK
- TP 410 Rapid Analysis of Liquid Food Products and Beverages Using Ultrasonic Rapid Evaporative Ionisation Mass Spectrometry; Daniel Simon¹; Tamas Karancsi¹; Steven Derek Pringle²; Zoltan Takats³; †Waters Research Center,



- TP 411 Improving the Sensitivity of ESI-MS by Efficient Ion Transmission and Desolvation; Chinthaka A.

 Seneviratne¹; Milad Nazari¹; Elizabeth S. Hecht¹; Jung Lee²; Peter Kottke²; Matthew Torres³; Andrei G. Fedorov²; David C. Muddiman¹; ¹W.M. Keck FTMS Laboratory for Human Health Research, Dept. of Chemistry, North Carolina State University, Raleigh, NC; ²The George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA; ³School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA
- TP 412 Charge Reduction and Novel Fragmentation of mAbs with an ESI/Impactor API Source; Steve Bajic¹; Jeff Brown¹; 'Waters Corporation, Wilmslow, UK
- TP 413 Spray Mechanism in Contained-electrospray Ionization Investigated Using On-line Protein Modification; Colbert Miller¹; Abraham K. Badu-Tawiah¹; ¹Ohio State University, Columbus, OH
- TP 414 Analysis in Real Time Using Mass Spectrometry
 Coupled with Plasmas; Joel Lemaire¹; Michel Heninger¹;
 Essyllt Louarn¹; Helene Mestdagh¹; Gérard Bauville²; Nicole
 Blin Simiand²; Blandine Bournonville²; Michel Fleury²;
 Kristaq Gazeli²; Stephane Pasquiers²; Sebastien Thomas¹.
 ²; Joao Santos Sousa²; Elsa Bauchard³; Julien Leprovost³;
 ¹LCP, UMR8000, CNRS-Université Paris Sud, Université
 Paris Saclay, Orsay, France; ²LPGP, UMR8578, CNRSUniversité Paris Sud, Université Paris Saclay, Orsay,
 France, Orsay, France; ³AlyXan, Juvisy sur Orge, France
- TP 415 Secondary Ion Mass Spectrometry with Individual Projectiles: A Complete Mass Spectrum from a Single Impact?; Michael J. Eller¹; Anita Vinjamuri¹; Gabriel D. Shuffield¹; Bryan Tomlin¹; Emile A. Schweikert¹; ¹Texas A&M University, College Station, TX
- TP 416 Improving Spray Stability in Negative Mode Nano-ESI with a Novel Coaxial Sheath Spray Device; Samuel

 Wein¹; Benjamin A. Garcia²; ¹University of Pennsylvania,
 Philadelphia, Pa; ²University of Pennsylvania, Philadelphia,
 PA
- TP 417 DRy Ion Localization and Locomotion (DRILL) MS Interface for Sensitivity Enhancement via Inertial Sorting; Jung Lee¹; Peter A. Kottke²; Elizabeth S. Hecht³; Chinthaka A. Seneviratne³; David C. Muddiman³; Alex P. Jonke¹; Matthew P. Torres²; Andrei G. Fedorov²; ¹Georgia Institute of Technology, Atlanta, GA; ²Georgia Institute of Technology, Atlanta, GA; ³North Carolina State University, Raleigh. NC
- TP 418 Characterization of Labile Highly Sulfated Cyclodextrins (HSCD) by Cold-Spray Ionization (CSI) Mass

 Spectrometry; Daniel Ortiz¹; Samuel Jones¹; Francesco
 Stellacci¹; Laure Menin¹; ¹École Polytechnique Fédérale de
 Lausanne, Lausanne, Switzerland
- **Ultra High Resolution Atmospheric Pressure** TP 419 Chemical Ionization Evolved Gas Analysis - Gas Chromatography and Thermal Analysis Applied for Petroleum Analysis; Christopher Paul Rüger¹; Theo Schwemer^{1, 2}; Anika Neumann¹; Martin Sklorz¹; Uwe Kaefer^{3, 4}; Thomas Groeger³; Ralf Zimmermann^{1, 2, 5}; ¹Joint Mass Spectrometry Centre / Chair of Analytical Chemistry, University of Rostock, Rostock, Germany; 2HICE Helmholtz Virtual Institute of Complex Molecular Systems in Environmental Health - Aerosols and Health, www.hicevi.eu, Neuherberg, Germany; 3Joint Mass Spectrometry Centre, Comprehensive Molecular Analytics, Helmholtz Zentrum München, München, Germany; ⁴ASG Analytik Service-Gesellschaft mbH, Neusäss, Germany; 5Joint Mass Spectrometry Centre / Cooperation Group Comprehensive Molecular Analytics, Helmholtz Zentrum München, Neuherberg, Germany

- TP 420 Development and Characterization of a New Extractive Electrospray Ionization (EESI) Source for Online Particle Analysis; Felipe Lopez-Hilfiker^{1, 2}; Sonja Klee¹; Veronika Pospisilova²; Manuel Hutterli¹; Jay Slowik²; Andre Prevot²; Urs Baltensperger²; ¹TOFWERK, Thun, Switzerland; ²Paul Scherrer Institute (PSI), Villigen, Switzerland
- TP 421 Matrix-Free Laser Desorption/Ionization Using Microstructured Anti-Reflection Metal Surfaces; Jing Yang¹; Xiaoxiao Ma¹; Zishuai Li¹; Jia Jia²; Peixun Fan³; Minlin Zhong³; Zheng Ouyang¹.⁴; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instrument, Tsinghua University, Beijing, China; ²Department of Chemistry, Tsinghua University, Beijing, China; ³School of Materials Science and Engineering, Tsinghua University, Beijing, China; ⁴Weldon School of Biomedical Engineering, Purdue University, West Lafayette. IN
- TP 422 **H2-Plasma for the Generation of Protonation Reagents**with a Standard APPI Power Supply; Hendrik Kersten¹;
 Tobias Kutsch¹; Kai Kroll¹; Kirsten Haberer¹; Thorsten
 Benter¹; **Inniversity of Wuppertal*, Wuppertal*
- TP 423 A New Atmospheric Pressure Ionization Source Using a High Voltage Target Compared to Electrospray Ionization; Arnaud Lubin¹; Steve Bajic²; Deirdre Cabooter³; Patrick Augustijns³; Filip Cuyckens¹; ¹Janssen R&D, Beerse, Belgium; ²Waters Corporation, Wilmslow, UK; ³Department of Pharmaceutical and Pharmacological Sciences, Leuven, Belgium
- TP 424 Evaluation of a Kinetically Controlled Chemical Ionization Setup; Kai Kroll¹; Duygu Erdogdu¹; Tobias Kutsch¹; Hendrik Kersten¹; Thorsten Benter¹; ¹Bergische Universität Wuppertal. Wuppertal. NRW
- TP 425 Improvement of µpCl for Proton Transfer Reactions: a Chambered Ion Source Design for Suppression of Water-Cluster; Nele Hartmann¹; David Mueller¹; Robin Hillen¹; Yessica Brachthäuser¹; Klaus J. Brockmann¹; Hendrik Kersten¹; Thorsten Benter¹; ¹Bergische Universität Wuppertal, Wuppertal, NRW
- TP 426 **nESI-MS Measurement of Protein Melting Temperature Using theta Tip Electroosmosis Induced Joule Heating Effect**; Feifei Zhao¹; Jiexun Bu²; Sarah M Matt²; Owen G.
 Rehrauer³; Dor Ben-Amotz²; Scott A McLuckey²; ¹Purdue
 University, West Lafayette, IN; ²Purdue University, West
 Lafayette, IN; ³Vertex Pharmaceuticals, Boston, MA
- TP 427 Adjustable In-Source Fragmentation of Metabolites and Lipids in Laser Desorption Ionization from Silicon Nanopost Arrays; Andrew Korte¹; Akos Vertes²; ¹George Washington University, Washington, DC; ²George Washington University, Washington, DC
- TP 428 Atmospheric Pressure Temperature Ramped Thermal Desorption/Ionization Atomic Force Microscope/Mass Spectrometry System for Spatially Resolved Surface Analysis; Vilmos Kertesz¹; William D. Hoffmann¹; Gary J. Van Berkel¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- TP 429 **Pulsed Valve Inlet Ionization**; <u>Bijay Banstola</u>¹; Md Amir Hossen¹; Fabrizio Donnarumma¹; Kermit K. Murray¹;

 ILouisiana State University, Baton Rouge, LA
- TP 430 Development of an Adaptable, High
 Sensitivity, Automation for Inlet Ionization; Milan
 Pophristic¹; Sean Rayna²; Kevin Rackers²; Anil Meher¹.
 ³; I-Chung Lu³; Ana Djuric⁴; Sarah Trimpin¹.³; Charles
 McEwen¹; ¹MSTM, LLC.., Newark, DE; ²Automation
 Techniques, Inc, Greensboro, NC; ³Department of
 Chemistry, Wayne State University, Detroit, MI; ⁴Engineering
 Technology, Wayne State University, Detroit, MI
- TP 431 Electrode-Less Secondary Electrospray Ionization (SESI) for Breath Analysis: Improving the Limits of Detection for Low Volatility Species; Guillermo Vidal-de-Miguel¹; Miriam Macia¹; Pablo Martinez-Lozano Sinues²;



- ¹Fossil Ion Technology, Madrid, Spain; ²ETH Zurich, Department of Chemistry and Applied Biosciences, Zurich, Switzerland
- TP 432 Comparison of Electrospray and Impactor Ionization for Pharmaceutical Compounds; Kerri M Smith¹; Yun Alelyunas¹; Giorgis Isaac¹; Joe LaPointe²; Nigel Ewing¹; Mark D Wrona¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Beverly, MA
- TP 433 Spark Discharge Ablation and Ionization of Metalliferous Aerosol Particles; Thorsten Benter¹; Joshua Rieger¹; Steffen Bräkling¹; Hendrik Kersten¹; ¹University of Wuppertal, Wuppertal, Germany
- TP 434 100% Input Efficient ESI UPLC MS Sample Introduction and MALDI, SIMS, LDI Sample Placement via an Inductive Approach. Universal ?; Drew Sauter¹; Andrew D. Sauter¹; Patrick A. Limbach²; Robert Ross²; Manasses Jora²; ¹Nanoliter, LLC, Henderson, NV; ²University of Cincinnati, Cincinnati, OH

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- TP 435 Analysis of Perfluorinated Compounds in Water Using Automated Solid Phase Extraction; Rudolf Addink¹; Rashid Juma¹; ¹Toxic Report, Watertown, MA
- TP 436 Determination of Artificial Sweeteners in Water Samples by Liquid-Phase Microextractionn Coupled to Liquid Chromatography-Tandem Mass Spectrometry; Yu-Hsin Lin¹; Chung-Yu Chen¹; Maw-Rong Lee¹; ¹National Chung-Hsing University, Taichung, Taichung
- TP 437 Effective Simultaneous Determination of Five Estrogens in Aqueous Samples Using DLLME and LC-MS/MS;

 Seung-Woon Myung¹; Yeon-Joo Moon¹; Jun Seok Kim²;

 ¹Kyonggi University, Suwon-si, South Korea; ²Korea
 Polytechnics, Seongnam-si, South Korea
- TP 438 HPLC/MS/MS Quantitation of Dopamine in Rat Plasma Using AAO Extraction and Derivatization; Rachel Sun¹; Tim Shoaf¹; Robert Clegg¹; Adrian Bott¹; ¹BASi, West Lafayette, IN
- TP 439 **iST: a Reproducible Sample Preparation Method for In- Depth Proteome Discovery and Interaction Proteomics;**<u>Fabian Hosp</u>¹; Garwin Pichler¹; Nils A. Kulak¹; Matthias

 Mann²; **PreOmics, Planegg/Martinsried, Bavaria; **2Max

 Planck Institute of Biochemistry, Martinsried, Germany
- TP 440 Measurement of Pesticides in Apple Juice Using LC-MS/MS with Fast and Modified QuEChERS Extraction Method Using Volatile Buffers; Avinash Dalmia¹; Reza Javahery²; Lisa Cousins²; Scott Lapaglia³; Wilhad Reuter³; Frenny Kaushal⁴; David welkie³; ¹Perkinelmer, Shelton, CT; ²PerkinElmer, Woodbridge, ON; ³PerkinElmer, Shelton, CT; ⁴PerkinElmer, Bolton, ON
- TP 441 A Robust Protocol for Detergent-Free Cell Lysis, Protein Enrichment and Modification with a High Tolerance for Harsh Conditions; Yannik Lewin; Department of Pharmaceutical Chemistry, Goethe University, Max-von-Laue-Straße 9, D-60438, Frankfurt am Main, Germany
- TP 442 Fully Automated Online Sample Preparation and LC-MS/MS Analysis of Drugs of Abuse in Oral Fluids; Joshua
 F. Emory¹; Michael Roberts¹; Manoj Tyagi²; Brian Feild¹;
 ¹Shimadzu Scientific Instruments, Columbia, MD; ²Captiva
 Lab, LLC, Charlotte, North Carolina
- TP 443 Assessment of Solvent Polarity upon Drugs of Abuse in Oral Fluids Using Supported Liquid Extraction (SLE) prior to LC/MS Analysis; Dan Menasco¹; Jillian Neifeld¹; Bruce Kempf¹; Stephanie J Marin¹; Elena Gairloch¹; Helen Lodder²; Alan Edgington²; Adam Senior²; Lee Williams²; Paul Roberts²; Claire Desbrow²; Steve Jordan²; ¹Biotage, Charlotte, NC; ²Biotage GB Limited, Cardiff

- TP 444 Comparison of Novel β-Glucuronidases for Process Improvement in Urine Toxicology Workflows; Phillip R. Gibbs¹; Hannah M. Milano¹; Matthew D. Kibbons¹; ¹Clinical Lab Consulting of Indiana, LLC, Indianapolis, IN Indiana
- TP 445 Simultaneous Extraction of Catecholamine and Metanephrines from Urine Prior to UHPLC-MS/MS Analysis; Alan Edgington¹; Adam Senior¹; Lee Williams¹; Rhys Jones¹; Helen Lodder¹; Geoff Davies¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited, Cardiff
- TP 446 Thermostable Trypsin/Lys-C Facilitates High-Throughput, Automated Proteomics Sample Preparation for Complex Samples; Carrie Romer¹; Danielle B.
 Gutierrez¹; Jamie L. Allen¹; Yuan-wei Nei¹; Melissa A.
 Farrow²; Nikesh Dahal²; Jocelyn Simpson²; Salisha Hill¹;
 Kristie L. Rose¹; Jeremy L. Norris¹; Michael Rosenblatt³; Eric
 P. Skaar²; D. Borden Lacy²; Richard M. Caprioli¹; ¹MSRC
 Vanderbilt University, Nashville, TN; ²Vanderbilt University
 Medical Center, Nashville, TN; ³Promega Corporation,
 Madison, WI
- TP 447 Screening and Quantitation of over 200 Pesticides/
 Antibiotics in Honey Using the eXtreme|FV for Sample
 Prep and On-Line Extraction UHPLC-MS/MS Analysis;
 Sam Ellis; Thomson Instrument Company, Oceanside, CA
- TP 448 Electromagnetic Mixer for Highly Efficient, Automated Sample Preparation; Chang Liu¹; Don W Arnold²; Thomas R. Covey¹; ¹SCIEX, Concord, ON; ²SCIEX, Redwood City, CA
- TP 449 Method Optimization for the Low Level Detection of Vitamin B7 from Human Serum Using UPLC-MS/MS
 Analysis; Lee Williams¹; Helen Lodder¹; Rhys Jones¹; Alan Edgington¹; Adam Senior¹; Geoff Davies¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited, Cardiff
- TP 450 Therapeutic Drug Monitoring of Antiepileptic Drugs in Serum: a Fully Automated Approach; Davide Vecchietti¹; Claudio Ghilardi²; Stéphane Moreau³; Stephan Schröder⁴; Katharina Kern⁵; Isabel Cabruja²; ¹Shimadzu, Milan, Lombardy; ²Shimadzu Italy, Milan, Italy; ³Shimadzu Europe GmbH, Duisburg, Germany; ⁴Shimadzu Deutschland GmbH, Duisburg, Germany; ⁵Recipe Chemicals + Instruments GmbH, Munich, Germany
- TP 451 Enhanced Lipids Removal from Biological Matrices to Prepare Samples for LC/MS/MS Analysis; Limian Zhao¹; Derick Lucas²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Inc., Wilmington, DE
- TP 452 Online Extraction of Antihypertensive Drugs from Human Serum Samples by LC-MS/MS Analysis; Carolina Tosin Bueno¹; Henrique Dipe de Faria²; Eduardo Costa Figueiredo²; Jose Eduardo Krieger¹; Eduardo Moacyr Krieger¹; Alexandre Costa Pereira¹; Paulo Caleb Junior Lima Santos¹; ¹Laboratory of Genetics and Molecular Cardiology, Heart Institute (InCor), University of Sao Paulo, Medical School, Sao Paulo, Brazil; ²Laboratory of Toxicant and Drug Analysis, University of Alfenas Unifal-MG, Alfenas, Brazil
- TP 453 Development of a Simple and Sensitive Derivatization Method for LC/MS/MS Analysis of Epinephrine in high Salt Contained Buffer Solutions; Bih-Hsiung Hsu¹; Patrick Lin¹; ¹PHARMout Lab, Sunnyvale, CA
- TP 454 LC/MS/MS Bioanalytical Protocol for Determining the Degree of Non-Specific Binding in Multi-Well Plates; Liyun Zhang¹; Jack Henion¹; ¹Q2 Solutions, Ithaca, NY
- TP 455 LC-MS/MS Assay Miniaturization in Support of ABS Microsampling Pharmacokinetics Studies; Elizabeth A. Mahan¹; Ken Anderson²; Jacqueline Kenny²; Rena Zhang²;

 ¹Merck & Co., West Point, PA; ²Merck & Co., West Point, PA
- TP 456 Comparison of Manual and Automated Sample
 Preparation Techniques for Lipidomics; Linda Ahonen¹;
 Peter Rossing¹; ¹Steno Diabetes Center Copenhagen,
 Gentofte, Denmark



- TP 458 Quantitative Analysis of THC and related cannabinoids in Multiple Matrices Using Simplified Solid Phase Extraction with UPLC/MS/MS; XIN ZHANG¹; Jonathan Danaceau²; Erin Chambers²; Kim Haynes²; ¹Waters Corp, Milford, MA; ²Waters Corporation, Milford, MA
- TP 459 Improved LC/MS/MS Analysis of Vitamin D Metabolites in Biological Samples Using Enhanced Matrix Removal Sample Preparation; Derick Lucas¹; Limian Zhao²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Inc., Wilmington, DE
- TP 460 Development of a LC-MS/MS Method for Quantitative Measurement of Drugs in Microscale 3D Bioprinted Human Liver Samples; Emily Adarayan¹; Elizabeth A. Mahan¹; Guangping Bi¹; Gary Adamson¹; Rena Zhang¹; Andreas Baudy¹; **Merck Reseach Labs, West Point, PA
- TP 461 Organic Flush Solutions to Remove Sample Matrix Interferences in LC-MS Systems; Haibo Wang¹; Stephen C Roemer²; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Fair Lawn, NJ - New Jersey
- TP 462 Optimized SPE-LC/MS/MS Assay to Support
 Measurement Released Drug in Nanoparticle
 Formulation; Wei Song¹; Brian Rago¹; Yizhong Zhang¹;
 Eyoung Shin¹; Young-Ho Song¹; Aarif Ahsan¹; Ravi
 Visswanathan¹; Mauricio Leal¹; Chris Holliman¹; ¹Pfizer,
 Groton. CT
- TP 463 Drugs of Abuse in Oral Fluids: Automated SPE Extraction and LC/MS/MS Analysis Using a Robotic Autosampler; Fred Foster 1; John R. Stuff1; Edward A. Pfannkoch1; Mark Hayward2; 1Gerstel, Inc., Linthicum, MD; 2ITSP Solutions, Hartwell, GA 30643
- TP 464 Method Development Strategies Using Polymer-Based SPE for the Analysis of Peptides Prior to UPLC-MS/MS Analysis; Helen Lodder¹; Lee Williams¹; Rhys Jones¹; Adam Senior¹; Alan Edgington¹; Geoff Davies¹; Steve Jordan¹; Claire Desbrow¹; Paul Roberts¹; ¹Biotage GB Limited. Cardiff. UK

LIPIDS: GENERAL 465 – 490

- TP 465 Facile Analysis of Sterols by Thiol-Based
 Photochemical Tagging and Electrospray Ionization

 Mass Spectrometry; Sarju Adhikari¹; Yu Xia¹; ¹Purdue
 University, West Iafayette, Indiana
- TP 466 Study on Triacylglycerides in Edible Vegetable Oils by Ultra-High Performance Liquid Chromatography Tandem Quadrupole-Time Of Flight Mass Spectrometry; Jianzhong Li¹; Yao Xiao²; Xin Ma²; Qilei Guo²; Tao Bo²; ¹Agilent Technologies (China), Beijing, Beijing, Beijing; ²Agilent Technologies (China), Beijing, China
- TP 467 Comprehensive Analysis of N-Acylethanolamine and Monoacylglycerol Species by Shotgun Lipidomics;

 Kazuo Kanaya¹; Miao Wang¹; Xianlin Han¹; ¹Sanford

 Burnham Prebys Medical Discovery Institute, Orlando, FL
- TP 468 Effects of Heparin Versus EDTA Anti-Coagulant on Plasma Samples Analyzed Using the LipidyzerTM Platform; Richard J. Robinson¹; Philip M. Charpia¹; Uyenthao T. Nguyen¹; Anne M. Evans¹; Luke A.D. Miller¹;

 1 Metabolon, Inc., Durham, NC
- TP 469 Evaluation of Hepatic Lipids from Rabbits under Conditions Stimulating Non-Alcoholic Fatty Liver Disease Using Nanoflow UPLC-ESI-MS/MS; Seul Kee Byeon¹; Myeong Hee Moon¹; ¹Yonsei University, Seoul, South Korea

- TP 470 Shotgun Lipidomics Reveals Decreases in Myelin Lipid Content in the Central and Peripheral Nervous Systems of db/db Mice; Chunyan Wang¹; Palavicini Pablo Juan¹; Linyuan Chen¹; Jianing Wang¹; Xianlin Han¹; ¹Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL
- TP 471 Probing the Electrostatic Interactions between Cationic Antimicrobial Peptides and Kdo2-Lipid A via Ultraviolet Photodissociation Mass Spectrometry; Christopher M Crittenden¹; Lindsay J Morrison¹; Lucas D Akin¹; Bryan W Davies².³; Jennifer S Brodbelt¹; ¹Department of Chemistry, University of Texas at Austin, Austin, TX; ²Department of Molecular Biosciences, University of Texas at Austin, Austin, TX; ³Institute of Cellular and Molecular Biology, University of Texas at Austin, Austin, TX
- TP 472 HCD-Analysis of Human Blood Plasma Lipid Classes via Combinatorial Free Fatty-Acid and Solid Phase Extraction of Phospho-, Glycero-, and Sphingolipids; Tobias M Maile¹; Eugene Melamud¹; Bryson Bennett¹; 'Calico LLC, South San Francisco, CA
- TP 473 Lipid Parameters Associated with Obesity Identified Using a High-Throughput Shotgun Lipidomics Technology; Christian Klose¹; Michal A. Surma¹; Ronny Herzog¹; Mathias Gerl¹; Elena Sokol²; David Peake³; Céline Fernandez⁴; Olle Melander⁴.⁵; Kai Simons¹; ¹Lipotype GmbH, Dresden, Saxony; ²Thermo Fisher Scientific-, Hemel Hempstead, UK; ³Thermo Fisher Scientific, San Jose, CA; ¹Department of Clinical Sciences, Lund University, Malmö, Sweden; ⁵Department of Internal Medicine, Malmö, Sweden
- TP 474 Recent Improvements in TrEnDi: Lipid Scope and Signal Consolidation; Carlos R. Canez¹; Gilian T. Thomas¹; Samuel W.J. Shields¹; Karl V. Wasslen¹; Peter J. Pallister¹; Jeffrey M. Manthorpe¹; Jeffrey C. Smith¹; ¹Carleton University, Ottawa, ON
- TP 475 Size Fractionation Coupled to Lipid and Protein Measurements to Quantify Lipoprotein Particle Number and Composition in Normal and Dyslipidemic Subjects; Michael Gardner¹; Zsuzsanna Kuklenyik¹; David M Schieltz¹; Bryan A Parks¹; Jon Rees¹; Lisa McWilliams¹; Christopher Toth¹; Jeffrey Jones¹; Michael Andrews¹; Antony Lehtikoski¹; John Barr¹; ¹Centers for Disease Control and Prevention. Atlanta. GA
- TP 476 Identification and Quantification of Lecithin
 Phospholipid in Freeze Dried and Drum Dried Fruit and
 Vegetable by LC-MS and HPLC-ELSD; Xiaoyan Xia¹;
 Boris V. Nemzer².³; ¹FutureCeuticals Inc., Momence, IL;
 ²FutureCeuticals Inc., Momence, iL; ³Department of Food
 Science and Human Nutrition, University Illinois at Urbana
 Champaign, Urbana, IL
- TP 477 Quantitation of Phospholipids Based on Isotope-Labeled Methylation Using nUPLC-ESI-MS/MS; <u>Jong</u> <u>Cheol Lee</u>¹; Seul Kee Byeon¹; Myeong Hee Moon¹; ¹Yonsei University, Seoul, South Korea
- TP 478 Fragmentation Behavior of Neuronal Lipids by HCD-MS/MS; Tommy Hofmann¹; Carla Schmidt¹; ¹Interdisciplinary research center HALOmem, Martin Luther University Halle-Wittenberg, Halle (Saale), Germany
- TP 479 Synaptamide Biosynthesis Monitored by Stable Isotope Labeling and High Resolution Mass Spectrometry;

 Karl Kevala¹; Michel Lagarde²; Arthur Spector¹; Hee-Yong Kim¹; ¹National Institutes of Health, NIAAA, Rockville, MD;

 2Universite de Lyon, INSA, Villeurbanne, France
- TP 480 Automated Lipid Profiling of a Plasma Sample Using Ultra-High Resolution Qq-Time-Of-Flight Impact II™ Mass Spectrometer with SimLipid Software; Ningombam Sanjib Meitei¹; Himani Gupta¹; Arun Apte²; Aiko Barsch³; Anjali Alving⁴; Juan J Aristizabal Henao⁵; Ken D Stark⁵; ¹PREMIER Biosoft, Indore, India; ²PREMIER Biosoft, Palo Alto, CA; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴Bruker Daltonic, Billerica, MA; ⁵University of Waterloo, Waterloo, Ontario



- TP 481 Lipidomic Analysis of Urinary Exosomes According to their Sizes by Flow Field-Flow Fracionatation and nUPLC-ESI-MS/MS; Joon Seon Yang¹; Myeong Hee Moon¹; ¹Yonsei University, Seoul, South Korea
- TP 482 The Role of Decreased Mitochondria Phospholipid and Impaired Electron Transport Chain for Brain Damage in Cardiac Arrest; Jonathan Tam¹; Angela Hong²; Tai Yin³; Junhwan Kim³; ¹Hofstra Northwell School of Medicine, Hempstead, NY; ²Villanova University, Villanova, PA; ³Feinstein Institute for Medical Research, Manhasset, NY
- TP 483 Investigating the Pathways of Lipid Biosynthesis in *C. reinhardtii* under Nitrogen Starvation Conditions Using Isotope Labeling and LC-MS; <u>Carter Lantz</u>¹; Matthew Brantley¹; James Chang¹; Jeremy Sieker¹; Sung-Joon Kim¹; Touradj Solouki¹; ¹Baylor University, Waco, Texas
- TP 484 Authentication of Two Different Types of Fish Oils by Qualitative Lipid Profiling Using Semi-Targeted Approach on QTRAP Platforms; Niladri Sekhar Chatterjee¹; Akanksha Singh²; Vishnu KV¹; Ajeeshkumar K K¹; Anandan R¹; Ashok Kumar¹; Suseela Mathew¹; Manoj Pillai²; ¹ICAR-Central Institute of Fisheries Technology, Cochin, India; ²SCIEX, 121, Udyog Vihar, Phase IV., Gurugram. India
- TP 485 Identification of Ligands for YF1*7.1, a Novel MHC Class I-Like Molecule; Gabriel Gugiu^{1,2}; Ronald Goto³; Marcia Miller³; ¹City of Hope, Molecular immunology BRI, Duarte, CA; ²City of Hope, Shared Resources BRI, Duarte, CA; ³City of Hope, Molecular & Cellular Biology BRI, Duarte, CA
- TP 486 Enhanced Coverage of Lipid Analysis and Imaging by MALDI-MS via a Strategy with an Optimized Mixture of Matrices; Jianing Wang¹; Chunyan Wang¹; Xianlin Han¹;

 1 Sanford Burnham Prebys Medical Discovery Institute, Orlando. FL
- TP 487 Comprehensive Global Lipidomics Profiling on LC-MS/MS Timeframe with Quadrupole Orbitrap Mass Spectrometer Detection; Josef Ruzicka¹; David A. Peake²;

 ¹Thermo Fisher Scientific, Somerset, NJ; ²ThermoFisher, San Jose, CA
- TP 488 Next Generation Lipid Profiling of Human Red Blood cells Unmasks Hidden Diversity; Amani M Batarseh¹;
 Sarah K Abbott¹; Ayedh Alqarni¹; Stephen J Blanksby²; Todd W Mitchell¹; ¹University of Wollongong, Wollongong, NSW;
 ²Queensland University of Technology, Brisbane, Australia
- TP 489 Lipidomic Responses of Stem Cells to Microfabricated Structures Using MALDI-MS; Martin R. L. Paine¹; Nick R. M. Beijer²; Jan De Boer²; Ron M. A. Heeren¹; Shane R. Ellis¹; ¹M4I Institute Maastricht University, Maastricht, Netherlands; ²MERLN Institute, Maastricht, Netherlands
- TP 490 *in situ* and Plasma Phospholipidome Studies of Rats Following Ischemic Stroke; Hay-Yan J. Wang¹; Erh-Hsuan Hsiang¹; Zhi-Fu Zheng²; ¹National Sun Yat-Sen University, Kaohsiung, Taiwan; ²Hyper Quantum Technologies, Kaohsiung, Taiwan

MALDI: SAMPLE PREPARATION 491 - 503

- TP 491 Physical Vapor Deposition Screening for Nanoparticle Assisted Laser Desorption Ionization Mass Spectrometry Applied to Microbiome Metabolomics;

 Rebecca Hansen¹; Maria Emilia Dueñas¹; Gargey Yagnik¹; Young-Jin Lee¹; ¹Iowa State University, Ames, IA
- TP 492 The Molecular Scanner Approach: Applications in Tissue Imaging; William Andrews1; Merlin Bruening1; Amanda B. Hummon1; 1University of Notre Dame, Notre Dame, IN
- TP 493 Metal Organic Frameworks as a New Class of MALDI Matrices; Rabih Jabbour¹; Gregory W. Peterson²; Jared B. Decoste²; ¹ECBC, APG, MD; ²ECBC, US Army, Gunpowder, MD

- TP 494 Enhancing Ion Abundances of Carbohydrates by Controlling Sample Crystalline Structures in MALDI Mass Spectrometry; Yu-Meng Ou^{1, 2}; Hsun Lee¹; Yin-Hung Lai¹; Huan-Tsung Chang²; Yi-Sheng Wang¹; ¹Genomics Research Center Academia Sinica, Taipei; ²Department of Chemistry, National Taiwan University, Taipei, Taiwan
- TP 495 Non-Commerical MALDI Matrices for the Analysis of Acidic Peptides; Xinyao Jing¹; Kyle Edwards¹; John B. Vincent¹; Angelo James¹; Yuping Bao¹; Carolyn J Cassady¹; ¹The University of Alabama, Tuscaloosa, AL
- TP 496 Improved Quantitative Analysis in MALDI-MS Using Freeze Vacuum Drying; Dongwon Shin¹; Jihyun Paek¹; Jeongkwon Kim¹; ¹Chungnam National University, Daejeon, Daejeon
- TP 497 Coffee Ring Effect Enhacement of Biomolecule Signals by MALDI; Laura J Castellanos-García¹; Alyssa L. M Marsico¹; Bradley Duncan¹; Ryan F. Landis¹; Gulen Yesilbag Tonga¹; Vincent M Rotello¹; Richard W Vachet¹; ¹University of Massachusetts-Amherst, Amherst, MA
- TP 498 Effect of Additive Cation on the Analysis of Sucrose Using MALDI-MS; Jihyun Paek¹; Jeongkwon Kim¹;
 ¹Chungnam National University, Daejeon, Daejeon
- TP 499 New Fixed-Charge Derivatization Agents for Analysis of Carbonyl Compounds by MALDI, SALDI and ESI Mass Spectrometry; Larisa Kulikova¹; Valentina Ilyushenkova¹.

 ²; Dmitrii Zhilyaev^{1, 2}; Roman Borisov^{1, 3}; ¹RUDN University, Moscow, Russia; ²Topchiev Institute of Petrochemical synthesis, Moscow; ³Topchiev Institute of Petrochemical synthesis, Moscow
- TP 500 Combined Solid and Liquid Matrix High Vacuum Sublimation and Evaporation Coating for MALDI Imaging; Fan Cao¹; Fabrizio Donnarumma¹; Md Amir Hossen¹; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA
- TP 501 Covalent Linkage of Matrix for Enhanced MALDI-MS; Jason Williams; NIEHS, RTP, NC
- TP 502 **Development of a Novel Sample Preparation Approach for Bottom-Up Shotgun Proteomics**; Simona Salivo¹; Tom K. Abban¹; Emanuele Barborini²; Matthew E. Openshaw¹; 'Shimadzu, Manchester, UK; 'Tethis SpA, Milan, Italy
- TP 503 Direct On-Plate Desalting and Enrichment for Improved Low Molecular Weight Marker Detection; Mohamed Nazim Boutaghou¹; Sharath Hosali²; Jason Sakamoto²; Brian Feild¹; ¹Shimadzu Scientific Instr., Columbia, MD; ²NanoMedical Systems, Houston, TX

METABOLOMICS: UNTARGETED METABOLITE PROFILING II 504 - 527

- TP 504 Metabolomic Profiling of NGLY1 Deficiency Disease; Songjie Chen¹; Guangwen Wang¹; David Marciano¹; Michael Snyder¹; ¹Stanford University School of Medicine, Stanford. CA
- TP 505 Application of GC Orbitrap Mass Spectrometry for Untargeted Metabolomics of Pathogenic Microorganisms; Fausto Pigozzo¹; Cristian Cojocariu²; Paul Silcock²; Stefan Weidt³; Jeni Haggarty³; Karl Burgess³;

 1 Thermo Fisher Scientific, Rodano, Milano; 2 Thermo Fisher Scientific-, Runcorn, UK; 3 Glasgow Polyomics, University of Glasgow, Glasgow, UK
- TP 506 Rapid Threat Analysis –A Workflow to Support Metabolomics Analysis of a Cell's Response to an Unidentified Toxin in 30 Days; Randi Gant-branum¹; Stacy D. Sherrod²; Simona Gabriela Codreanu²; Alexandra C Schrimpe-Rutledge²; James M Poland²; Jerry Holman²; Nicole Muszynski²; James C Pino²; Carrie E. Romer²; Jamie L. Allen²; Richard M. Caprioli²; John A. McLean²; ¹Vanderbilt University, Nashville, tenn; ²Vanderbilt University, Nashville, TN

- TP 507 Global Metabolomic Profiling Identifies Novel Mechanisms of Cuprizone-Mediated Oligodendrocyte Dysfunction; Alexandra Taraboletti¹; Tia Walker²; Robin Avila³; He Huang¹; Joel Caporoso⁴; Erendra Manandhar¹; Thomas Leeper⁵; David Modarelli¹; Satish Medicetty³; Leah Shriver¹; ¹University of Akron, Akron, OH; ²Indiana University Northwest, Gary, IN; ³Renovo Neural, Inc., Cleveland, OH; ⁴University of Pittsburgh School of Medicine, Pittsburgh, PA; ⁵College of Wooster, Wooster, OH
- TP 508 Evaluation of the Metabolism of Azo Dyes and its

 Effects on the Staphylococcus aureus Metabolome;

 Jinchun Sun¹; Jinshan Jin²; Richard D. Beger³; Carl E.

 Cerniglia⁴; Huizhong Chen⁴; ¹NCTR / USFDA, Jefferson ,

 AR; ²Division of Microbiology, Jefferson, AR; ³Division of

 System Biology, National Center for Toxicological Research,

 Jefferson, AR; ⁴Division of Microbiology, National Center for

 Toxicological Research, Jefferson, AR
- TP 509 Metabolite Fragmentation in Laser Ablation Electrospray Ionization Mass Spectrometry with Ion Mobility Separation; Ziad Sahab¹; Sylwia Stopka¹; Bindesh Shrestha²; Hang Li³; Wei Yuan¹; Lida Parvin¹; Akos Vertes¹; ¹George Washington University, Washington, DC; ²Waters Corporation, Beverly, MA; ³George Washington University, Washington, DC
- TP 510 Metabolomic Profiles of Normal Airway Epithelium Cells **Upon Exposure to Cigarette Smoking Condensate**; Alexandra C Schrimpe-Rutledge^{1, 2}; Xiangming Ji^{3, 4}; Simona Gabriela Codreanu^{1, 2}; Stacy D. Sherrod^{1, 2}; Pierre D Massion^{5, 6, 7}; John A. McLean^{1, 2, 8, 9}; ¹Department of Chemistry, Vanderbilt University, Nashville, TN; 2Center for Innovative Technology, Vanderbilt University, Nashville, TN; ³Division of Allergy, Pulmonary and Critical Care Medicine, Vanderbilt University School of Medicine, Nashville, TN; 4Vanderbilt Ingram Comprehensive Cancer Center, Vanderbilt University School of Medicine, Nashville, TN; ⁵Division of Allergy, Pulmonary and Critical Care Medicine, Department of Medicine, Cancer Early Detection and Prevention Initiative, Vanderbilt Ingram Cancer Center, Nashville, TN; 6Department of Cancer Biology, Vanderbilt University Medical Center, Nashville, TN; 7Veterans Affairs, Tennessee Valley Healthcare System, Nashville, TN; 8Vanderbilt Institute of Chemical Biology, Vanderbilt University, Nashville, TN; 9Vanderbilt Institute for Integrative Biosystems Research and Education, Vanderbilt University, Nashville, TN
- TP 511 A Lipidomics Characterization of Zika-Infected
 Mosquito Cells; Carlos Fernando Odir Rodrigues Melo¹;
 Diogo Noin de Oliveira¹; Estela de Oliveira Lima¹; Tatiane
 Melina Guerreiro¹; Cibele Zanardi Esteves¹; Rodrigo Ramos
 Catharino¹; ¹Innovare Biomarkers Laboratory, Campinas,
 Brazil
- TP 512 High throughput Metabolomics Using FTICR-MS to Reveal Rat Exposure States to Pesticides; Baninia Habchi^{1, 2}; Sandra Alves²; Delphine Jouan-Rimbaud Bouveresse¹; Brice Appenzeller³; Douglas N. Rutledge¹; Alain Paris⁴; Estelle Rathahao-Paris¹; ¹UMR Ingénierie Procédés Aliments, AgroParis Tech, Inra, Université Paris-Saclay, Massy, France; ²Sorbonne Universités, UPMC Univ Paris 06, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France; ³Human Biomonitoring Research Unit, Luxembourg Institute of Health (LIH), Rue Henri Koch 29, Esch-sur-Alzette, Luxembourg; ⁴Sorbonne Universités, Muséum national d'Histoire naturelle, CNRS, UMR7245 MCAM. Paris. France
- TP 513 LC/ MS-Based Lipidomic Profiling in Heart Tissue of Mice with Diet-Induced Atherosclerosis; Sunhee Jung¹; Miso Nam¹; Do Hyun Ryu²; Geum-Sook Hwang¹; ¹Korea Basic Science Institute, Seoul, South Korea; ²Sungkyunkwan University, Suwon, South Korea

- TP 514 Single-Probe MS Analysis of Extracellular Metabolites in Live in vitro Tumors; Mei Sun¹; Ning Pan¹; Zhibo Yang²; ¹University of Oklahoma, Norman, OK; ²University of Oklahoma, Norman, OK
- TP 515 **Profiling Strategies for Discovery of Acylated Specialized Metabolites**; <u>Steven M. Hurney</u>¹; Gaurav D.
 Moghe¹; Robert L. Last¹; A. Daniel Jones¹; ¹Michigan State
 University, East Lansing, MI
- TP 516 High Throughput Metabolomics by Ion Mobility Mass Spectrometry; Sandra Alves¹; Alain Paris²; Guillaume Van der Rest³; Estelle Rathahao-Paris⁴; ¹Sorbonne Universités, UPMC Univ Paris 06, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France; ²Sorbonne Universités, Muséum national d'Histoire naturelle, CNRS, UMR7245 MCAM, Paris, France; ³Université Paris Sud, Laboratoire de Chimie Physique, Orsay, France; ⁴UMR Ingénierie Procédés Aliments, AgroParisTech, Inra, Université Paris-Saclay, Massy, France
- TP 517 Development of a Serum Metabolome Database Using Isotope Labeling and High-resolution LC-MS; Wei Han¹; Minglei Zhu¹; Ngoc Tran Tran¹; Liang Li¹; ¹University of Alberta, Edmonton, AB
- TP 518 Mass Spectrometric Investigation of the Human Gut Microbiota's Response to Infection as a Source for Novel Antibiotics; Caitlin Keller¹; Jennifer Bratburd¹; Cameron Currie¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- TP 519 A Metabolomics Approach to Dissecting y— Aminobutyrate Metabolism and its Link to Virulence and Reproduction in the Wheat Pathogen Parastagonospora nodorum; Hayley Abbiss^{1,2,3}; Oliver Mead⁴; Susan Breen⁴; Joel P A Gummer^{1,2}; Stacey N Reinke^{1,2}; Robert D Trengove^{1,2}; Peter S Solomon⁴; ¹Separation Science and Metabolomics Laboratory, Murdoch University, Perth, Australia; ²Murdoch University, Perth, Western Australia; ³SpectralWorks, Runcorn, UK; ⁴Research School of Biology, The Australian National University, Canberra, Australia
- TP 520 Modifying Skin Metabolome and Microbiome with Personal Care Products; Amina Bouslimani¹; Ricardo Silva1; Amnon Amir2; Tomasz Kosciolek2; Stefan Janssen2; Kathleen Dorrestein¹; Gregory Humphrey²; James Gaffney²; Tara Schwartz²; Karenina Sanders²; Alexey V Melnik¹; Chris Callewaert²; Tal Luzzatto-Knaan¹; Rob Knight^{2, 3, 4}; Pieter C. Dorrestein^{1, 2, 4, 5}; ¹Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, La Jolla, CA; 2Department of Pediatrics, University of California San Diego, La Jolla, CA; 3Department of Computer Science and Engineering, University of California San Diego, La Jolla, CA; 4Center for Microbiome Innovation, University of California San Diego, La Jolla, CA; ⁵Department of Pharmacology, University of California San Diego, La Jolla, CA
- TP 521 Dietary Effects on the Human Urine Metabolome: A Case Study Involving Cow Milk Consumption; Dorothea Mung¹; Liang Li¹; ¹University of Alberta, Edmonton, AB
- TP 522 Discovery of Biomarkers of Brain Tumor Metastasis in a Medulloblastoma Mouse Model; Danning Huang¹; Martin R. L. Paine¹; Jingbo Liu²; David A. Gaul¹; Tobey J. MacDonald²; Facundo M. Fernández¹; ¹School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA; ²Aflac Cancer and Blood Disorders Center, Department of Pediatrics, Emory University School of Medicine, Atlanta, GA
- TP 523 Using Non-Targeted High Resolution LC-QTOF Profiling to Characterize Metabolic Responses of Nicotiana attenuata during Infection with Rhizophagus irregularis; Sven Heiling¹; Ming Wang¹; Rayko Halitschke¹; Emmanuel Gaquerel²; Aiko Barsch³; Magdalene Reinkensmeier³; Ian T Baldwin¹; ¹Max Planck Institute for Chemical Ecology, Department for Molecular Ecology, Jena, Germany; ²Centre



- for Organismal Studies Heidelberg, University of Heidelberg, Heidelberg, Germany; ³Bruker Daltonics, Bremen, Germany
- TP 524 Profiling of Wine Using Ultra-High Resolution Flow Injection Mass Spectrometric Analysis and 1H-NMR Spectroscopy; Matthias Witt¹; Nikolas Kessler¹; Markus Godejohann²; Michael L. Easterling³; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker BioSpin GmbH, Rheinstetten, Germany; ³Bruker Daltonic, Billerica, MA
- TP 525 An Untargeted Metabolomics Approach to Using High Resolution Mass Spectrometry for Identifying Disease Biomarkers; GINA TAN¹; Svetlana Rezinciuc²; Heather S. Smallwood²; Andreas F. Huhmer³; ¹Thermo Fisher Scientific, San Jose, CA; ²University of Tennessee Health Science Center, Memphis, TN; ³Thermo Fisher Scientific, San Jose, CA
- TP 526 A Metabolomics Study on crtEBI Recombinant Saccharomyces cerevisiae with UHPLC Tandem Quadrupole-Time of Flight Mass Spectrometry; Wei Du'; TAO BO'; 'Agilent Technologies, Beijing, China
- TP 527 Biomarkers for Human Plasma Sample Quality Using an IROA-Labeled Universal Internal Standard; <u>Casey A. Chamberlain</u>¹; Chris Beecher²; Timothy J. Garrett¹;

 1 University of Florida, Gainesville, FL; 2 IROA Technologies, Gainesville, FL

NANOMATERIALS 528 - 536

- TP 528 Surface-assisted Laser Desorption/Ionization Timeof-Flight Mass Spectrometry of Small Biomolecules and Asphaltenes Using Transition Metal Oxide Nanoparticles; <u>Abayomi Olaitan</u>¹; Lauren F. Barnes¹; Joseph R. Yount¹; Savanna Ward¹; Bryan Zanca¹; Karen S. Molek¹; 'University of West Florida, Pensacola, Florida
- TP 529 Field-Flow Fractionation (FFF) Coupled with ICP-MS for Characterization of Metallic Nanoparticles in Tattoo Ink, and FFF-spICP-MS Analysis of Gold Nanoparticles; Robert Reed¹; Soheyl Tadjiki¹; Florian Meier²; Tony Pfaffe²; Evelin Moldenhauer²; Thorsten Klein²; *Postnova Analytics Inc., Salt Lake City, Utah; *Postnova Analytics GmbH, Landsberg am Lech, Germany
- TP 530 Temperature and pH Alteration of Silver Nanoparticle Protein Corona Composition Studied by Quantitative Label-Free Proteomics; Vladimir Gorshkov¹; Julia A Bubis²³; Elizaveta M Solovyeva²-³; Mikhail V Gorshkov²-³; Frank Kjeldsen¹; ¹University of Southern Denmark, Odense, Denmark; ²V. L. Talrose Institute for Energy Problems of Chemical Physics, Russian Academy of Sciences, Moscow, Russia; ³Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia
- TP 531 Development of Antibody Decorated Magnetic Nanoparticles for the Assay of Abused Drug in Urine; Kun-Ru Wu¹; He-Hsuan Hsiao¹; ¹NCHU, Department of Chemistry, Taichung, Taiwan
- TP 532 Surface Chemistry Analysis of Bio-Conjugated Gold Nanoparticles by LDI/MALDI-(CID)-FTICR MS; Fabrizio Chiodo^{1, 2}; Yuri E.M. van der Burgt¹; Jeroen D. Codée²; Manfred Wuhrer¹; Cornelis H. Hokke¹; Simone Nicolardi¹; ¹Leiden University Medical Center, Leiden, Netherlands; ²Leiden University, Leiden, Netherlands
- TP 533 Analysis of Fungal Epipolythiodioxopiperazine
 Alkaloids' Encapsulated within Expansile Nanoparticles
 via UPLC- MS-MS/MS; Chiraz Soumia Amrine¹; Aaron H
 Cobly²; Mark W Grinstaff²; Joanna E Burdette³; Daniel A
 Todd¹; Cedric J Pearce⁴; Nicholas H Oberlies¹; ¹University
 of North Carolina at Greensboro, Greensboro, NC; ²Boston
 University, Boston, Massachusetts; ³University of Illinois,
 Chicago, Illinois; ⁴Mycosynthetix, Inc, Hillsborough, NC
- TP 534 Molecular Analysis of Neurons from Single Ganglia of *Lymnaea stagnalis* by MALDI and Nanophotonic Laser Desorption Ionization Mass Spectrometry; Nikkita Khattar¹; Linwen Zhang¹; Zita Zrinyi²; Zsolt Pirger²; Akos

- Vertes¹; ¹The George Washington University, Washington, DC; ²Balaton Limnological Institute, Tihany, Hungary
- TP 535 Analysis of Microorganism Extracts by Laser
 Desorption Ionization Mass Spectrometry from Silicon
 Nanopost Arrays; Jarod Fincher¹; Akos Vertes¹; ¹The
 George Washington University, Washington, DC
- TP 536 Surface Modified and Derivatized Silicon Nanopost Arrays for Increased Molecular Coverage and Sensitivity by Laser Desorption Ionization Mass Spectrometry;

 Jacqueline E. Dyer¹; Jarod A. Fincher¹; Rachelle S.

 Jacobson¹; Nicholas J. Morris²; Matthew J. Powell²; Akos Vertes¹; ¹The George Washington University, Washington, DC; ²Protea Biosciences, Morgantown, WV

NUCLEIC ACIDS AND OLIGONUCLEOTIDES I 537 - 556

- TP 537 ESI and CAD MS Studies of Fe(II) Binding to RNA
 Mononucleotides; Giovanni Calderisi¹; Kathrin Breuker¹;
 ¹University of Innsbruck, Innsbruck, Tirol
- TP 538 TiO2-Based Solid Phase Extraction and LC-Coupled Mass Spectrometry for the Detection of 2'-O-methylmodifications in tRNA; Manasses Jora¹; Robert Ross¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH
- TP 539 LC-MS Based Detection of Radiation Induced Effects on RNA and Its Chemical Modifications; Congliang
 Sun¹; Patrick A Limbach¹; Balasubrahmanyam Addepalli¹;

 ¹University of Cincinnati, Cincinnati, OH
- TP 540 Quantitation of siRNA in Biological Matrices by Liquid Chromatography and High Resolution Accurate Mass Spectrometry (LC/MS-HRAM); Ju Liu¹; Krishna Aluri¹; Vikrant Gohil¹; Chris Tran¹; Jing Li¹; Samuel Wainhaus¹; Yuanxin xu¹; ¹Alnylam Pharmaceuticals, Cambridge, MA
- TP 541 Identification of Post-Transcriptional Modifications of tRNAs in Archaeal Organisms Using Liquid Chromatography and Mass Spectrometry; Ningxi Yu¹; Patrick A. Limbach²; ¹University of Cincinnati, Cincinnati, Ohio; ²University of Cincinnati, Cincinnati, OH
- TP 542 Improving MS Sensitivity through the Reduction of Metal Salt Adducts in IP-RPLC/MS Oligonucleotide
 Analyses; Robert Birdsall¹; Martin Gilar²; Joe Fredette²; Ying Qing Yu²; Weibin Chen²; **/*Waters Corporation, Milford, MA; **2Waters Corporation, Milford, MA
- TP 543 Impurity Profiling Second Generation Therapeutic Oligonucleotides Using Liquid Chromatography Mass Spectrometry; Noha Morsy ElZahar¹; Nancy Magdy²; Amira M. El-Kosasy²; Michael G. Bartlett¹; ¹Department of Pharmaceutical and Biomedical Sciences, College of Pharmacy, The University of Georgia, Athens, GA; ²Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
- TP 544 Characterization of Amino Acid-Linked Platinum Adducts to RNA via Tandem Mass Spectrometry;

 Chenchen He¹; Bett Kimutai¹; Lucas A. Hamlow¹; Yanlong Zhu¹; Harrison A. Roy¹; Jun Jiang¹; Xun Bao¹; C. S. Chow¹; Jonathan Martens²; Juehan Gao²; Giel Berden²; Jos Oomens²; M. T. Rodgers¹; ¹Wayne State University, Detroit, MI; ²FELIX Facility, Radboud University, Netherlands
- TP 545 Characterization of Post-Transcriptional Modifications
 Using Low-Mass-Fragment Signatures Generated by
 Highly-Accurate Tandem Mass Spectrometry; Hiroshi
 Nakayama¹; Yuko Nobe²; Yoshio Yamauchi²; MASATO
 TAOKA²; Toshiaki Isobe²; ¹RIKEN Center for Sustainable
 Resource Science, Wako, Japan; ²Department of Chemistry,
 Tokyo Metropolitan Univ., Tokyo, Japan
- TP 546 Characterization of Intramolecular Nucleobase-Phosphate Interactions by Site-Specific Nucleobase Methylation and Collisionally Activated Dissociation; Heidelinde Glasner¹; Christian Riml¹; Christoph



- TP 547 Identification of a Novel Deaminated Metabolite on a Single-Stranded Oligonucleotide, in Monkey Liver by HPLC and High-Resolution Mass Spectrometry; Jing Li¹; Ju Liu¹; Samuel Wainhaus¹; Yuanxin Xu¹; ¹Alnylam Pharmaceuticals, Cambridge, MA
- TP 548 Two Quantitative Assays for the Phosphorodiamidate Morpholino Oligomer (PMO)SRP-4045 in MousePlasma using HPLC-MS/MS Coupled with Solid Phase Micro-Extraction; AlHUA LIU¹; Jiangbo Zhang²; Nan Zhao¹; Shawn Burton¹; Michael Carver²; Sherry Liu¹; Joseph Rutkowoski¹; Scott Reuschel¹; Min Meng¹; ¹Covance, Salt Lake City, UT; ²Sarepta Therapeutics, Inc., Cambridge, MA
- TP 549 Metal Ion-, Base-, and Acid-Catalyzed Hydrolysis of Total Yeast RNA for Kendrick Mass Analysis of Posttranscriptionally Modified Nucleotides; Matthias Halper¹; Kathrin Breuker¹; ¹University of Innsbruck, Innsbruck, Austria
- TP 550 Characterization of Metallocene-Oligonucleotide
 Adducts with Different Activation Techniques; Rahel
 Eberle; University of Bern, Bern, Switzerland
- TP 551 Novel Cytidine Specific Ribonuclease for MS-Based RNA Modification Mapping; Priti Thakur¹; Patrick A. Limbach¹; Balasubrahmanyam Addepalli¹; ¹University of Cincinnati, Cincinnati, OH
- TP 552 Untargeted Metabolomic Profiling of the
 Epitranscriptome: Discovery of New Modified
 Nucleobases in RNA; Megan R Showalter¹; Tomas Cajka¹;
 Nont Kosaisawe¹; Kacey VanderVorst²; Kermit L Carraway
 III²; Oliver Fiehn¹; ¹NIH West Coast Metabolomics Center,
 University of California Davis, Davis, CA; ²Department
 of Biochemistry and Molecular Medicine, UC Davis,
 Sacramento, CA
- TP 553 Identification of YTHDF2 as a Reader for 5-Methylcytosine in RNA; Xiaoxia Dai¹; Lin Li¹; Jie Li²; Gwendolyn Gonzalez¹; Changjun You¹; Weili Miao¹; Junchi Hu³; Lijuan Fu¹; Yanhui Xu²; Weifeng Gu¹; Yinsheng Wang¹; ¹UC Riverside, Riverside, CA; ²Fudan University, Shanghai, China; ³Shanghai Institute of Materia Medica, Shanghai, Shanghai
- TP 554 LC-MS/MS for the Investigation of the Altered Levels of 5-HmdC in Cancer Cells; Yang Yu¹; Yinsheng Wang¹; ¹UC Riverside. Riverside. CA
- TP 555 Novel Fluorescently-Labeled Nucleotide Triphosphates
 Incorporation with different DNA polymerases: MALDI
 MS Perspective; Igor P. Smirnov¹; Galina E Pozmogova¹;
 Alexandr V Chudinov²; Edward N Timofeev²; ¹Institute of
 Physico-Chemical Medicine, Moscow, Moscow; ²Engelhardt
 Institute of Molecular Biology, Moscow, Russia
- TP 556 Evaluation of RNase U2 Variants By Mass Spectrometry for the Improvement of RNA Modification Mapping;

 Beulah Mae Ann Solivio¹; Balasubrahmanyam Addepalli¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH

PROTEINS: GENERAL AND MEMBRANE 557 - 568

TP 557 Investigating Protein Interactions of MALAT-1, a Long-Noncoding RNA, in Brain Tumors; Maike Langini^{1, 2, 3}; Nan Qin^{2, 3, 4}; Daniel Picard^{2, 3, 4}; Anja Stefanski^{1, 5}; Kai Stühler^{1, 5}; Marc Remke^{2, 3, 4}; *Institute of Molecular Medicine, University Hospital Duesseldorf, Duesseldorf, Germany; *Department of Pediatric Oncology, Hematology and Clinical Immunology, University Hospital Duesseldorf, Duesseldorf, Germany; *Division of Pediatric Neuro-Oncogenomics, German Cancer Consortium and German Cancer Research Center - partner site Essen/Duesseldorf, Duesseldorf, Germany; *Department of Neuropathology, Heinrich Heine

- University Duesseldorf, Duesseldorf, Germany; Molecular Proteomics Laboratory, BMFZ, Heinrich Heine University, Duesseldorf, Germany
- TP 558 Photoaffinity Probes and Quantitative Proteomics
 Enable Assessment of Target Engagement and
 Compound Potency in Live Cells; Christian Eberl¹;
 Johanna Vappiani¹; Anne J. Wagner¹; Stephanie Lehmann¹;
 Marcel Muelbaier¹; Marcus Banscheff¹; ¹Cellzome,
 Heidelbera. BW
- TP 559 Revisiting Ethanol Precipitation of Plasma Proteins to Deplete Albumin and Increase Depth of Coverage;
 Nicholas J. Carruthers¹; Paul Stemmer²; Joseph A.
 Caruso²; ¹Wayne State University, Detroit, MI; ²Wayne State University, Detroit, MI
- TP 560 Alpha-Lytic Protease Digestion of Proteins:

 Comparison with Trypsin and Subtilisin; Colleen

 McClung¹; Christopher J Noren¹; Cristian I. Ruse¹; ¹New

 England BioLabs, Ipswich, MA
- TP 561 Cell Surface Thermal Proteome Profiling Enables Monitoring the Interactions of Small Molecules and Endogenous Ligands with the Plasma Membrane Proteome; Mathias Kalxdorf¹; Ina Tögel¹; Christian Eberl¹; Marcus Bantscheff¹; ¹Cellzome, a GSK company, Heidelberg
- TP 562 Characterization of Degradation Profile of Collagen in Archaeological Specimens by Mass Spectrometry;

 Mao Karino¹; Kazuki Kawahara²; Seiji Kadowaki³;
 Yoko Taniguchi⁴; Akira Tsuneki⁴; Mehdi Moini⁵; Takashi Nakazawa¹; ¹Nara Women's University, Nara, Japan;

 Osaka University, Suita, Japan; ³Nagoya University Museum, Nagoya, Japan; ⁴University of Tsukuba, Tsukuba, Japan; ⁵George Washington University, Washington, DC
- TP 563 Comparative Microsomal Proteomics of the NCI-H23
 Lung Cancer Cell Line Grown in 2D and 3D Culture; Jan
 A. Kaczmarczyk¹; Rhonda R. Roberts¹; Richard G. Saul¹;
 John J. Gildea²; Robin A. Felder³; Gordon R. Whiteley¹;
 Josip Blonder¹; ¹Frederick National Laboratory for Cancer
 Research (FNLCR), Leidos Biomedical Research Inc.,
 Frederick, MD; ²Omic Labs, Scottsville, VA; ³Department
 of Pathology, University of Virginia School of Medicine,
 Charlottesville, VA
- TP 564 Mass Spectrometry Based Identification, Quantitation, and Characterization of Novel Cell Surface Markers of Human Cardiomyocytes; Matthew Waas¹; Ted Keppel¹; Chelsea Fujinaka¹; Ranjuna Weerasekera¹; Rebekah Gundry¹; **Medical College of Wisconsin, Milwaukee, WI
- TP 565 Discovery and Quantitation of Cell Surface Proteins during Pluripotent Stem Cell-Derived Cardiomyocyte Differentiation and Maturation; Chelsea Fujinaka¹; Ted Keppel¹; Matthew Waas¹; Rebekah Gundry¹; Medical College of Wisconsin, Milwaukee, WI
- TP 566 The Quantification of Low Abundance Host Cell Protein Impurities by Standard Addition Mass Spectrometry Method; Feng Yan¹; Zihao Wang¹; ¹GSK Vaccines, Rockville, MD
- TP 567 Protease Networks and Proteostasis in Plant Chloroplasts and Mitochondria; an Omics Approach to Organellar Protein Maturation, Stability and Turnover; Klaas J. Van Wijk¹; Elden Rowland²; Kristina Majsec²; Giulia Friso¹; Nazmul H. Bhuiyan²; Jitae Kim²; Vivek Kumar³; Sunita Kumari³; Doreen Ware³; Qi Sun²; ¹Cornell University, Ithaca, New York; ¹Cornell University, Ithaca, New York; ¹Cold Spring Harbor laboratory, Cold Spring Harbor, NY
- TP 568 Multiplexed Mass Spectrometric Screening of EGFR Mutations in Non-small-cell Lung Cancer; Chi-Ting Lai¹; Wai-Kok Choong²; T. Mamie Lih²; Hui-Yin Chang²; Ting-Yi Sung²; Hsuan-Yu Chen³; Yu-Ju Chen⁴; Chia-Li Han⁵; ¹Genome and Systems Biology Degree Program,



National Taiwan University, Taipei, Taiwan; ²Institute of Information Science, Academia Sinica, Taipei, Taiwan; ³Institute of Statistical Science, Academia Sinica, Taipei, Taiwan; ⁴Institute of Chemistry, Academia Sinica, Taipei, Taiwan; ⁵Master Program for Clinical Pharmacogenomics and Pharmacoproteomics, Taipei Medical University, Taipei, Taiwan

PROTEINS: PTMs 569 - 601

- TP 569 Development of a Method for the Determination of α-Tubulin Acetylation by Immunopurification–Multiple Reaction Monitoring Mass Spectrometry (IP-MRM-MS); Xiangkun Yang¹; Michael Bartlett¹; ¹University of Georgia, Athens, Georgia
- TP 570

 2D-Immunoblotting Combined with High-Resolution Mass Spectrometry Reveals a Novel Phosphorylation Site in Cofilin-1 Involved in Cardiomyopathy; Solenne Chardonnet¹; Maria Chatzifrangkeskou²; Yannick Tanguy²; Thibault Marais²; Howard J. Worman³.⁴; Gisèle Bonne²; Antoine Muchir²; ¹Sorbonne Universités, UPMC Univ Paris 06, Inserm, UMS Omique, Plateforme P3S, Paris, France; ²Center of Research in Myology, UPMC-INSERM UMR974, CNRS FRE3617, Paris, France; ³Department of Medicine, College of Physicians and Surgeons, Columbia University, New York, NY; ⁴Department of Pathology and Cell Biology, College of Physicians and Surgeons, Columbia University, New York, NY
- TP 571 Development of a High-throughput Method to Identify Disulfidesin Human Recombinant Soluble Guanylyl Cyclase; Chuanlong Cui¹; Lin Yan¹; Annie Beuve²; Hong Li¹; ¹Center for Advanced Proteomics Research, Rutgers New Jersey Medical School, Newark, NJ; ²Department of Pharmacology, Physiology and Neuroscience, Rutgers New Jersey Medical Shool, Newark, NJ
- TP 572 Highly Efficient and Reproducible Online 2D-LC Method for Determination of Glycated Peptides; Lina Zhang¹; Chih-Wei Liu¹; Qibin Zhang¹.²; ¹Center for Translational Biomedical Research, Kannapolis, NC; ²University of North Carolina at Greensboro. Greensboro. NC
- TP 573 Characterization of Disulfide Linkages in Proteins by Ultraviolet Photodissociation (UVPD); Montana

 Quick¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- TP 574 Reprogramming the SNO-Proteome in the brain of the Shank3-KO Model of Autism Spectrum Disorder; Haitham Amal¹; Vadiraja Bhat²; John S. Wishnok¹; Guoping Feng³; Steven R. Tannenbaum¹.³; ¹Massachusetts Institute of Technology, Cambridge, MA; ²Agilent Technologies, Wilmington, DE; ³McGovern Institute for Brain Research, Cambridge, MA
- TP 575 Succinyl-CoA Potentially Regulates the Oligomeric Forms of Cyanobacterial Citrate Synthase through Succinylation; John Muroski¹; Hong Nguyen¹; Joseph A. Loo¹; Rachel R. Ogorzalek Loo¹; ¹UCLA, Los Angeles, CA
- TP 576 Comprehensive Profiling of Lysine Modifications in Biosilica-Associated Proteome; Alexander Milentyev¹; Christoph Heintze²; Nicole Poulsen²; Nils Kröger²,³; Andrej Shevchenko¹; ¹MPI-CBG, Dresden, Germany; ²B-CUBE Center for Molecular Bioengineering, Dresden, Germany; ³Department of Chemistry and Food Chemistry, Technische Universität Dresden, Dresden, Germany
- TP 577 Automated Proteome-Wide Data Analysis Strategies for the "Unbiased" Detection of Dityrosine Cross-Linked Proteins Indicative of Oxidative Stress in Neurodegenerative Diseases; Eugene A Kapp¹; Soumya Mukherjee²; Blaine R Roberts¹; ¹The Florey, Melbourne, Australia; ²Indian Association for the Cultivation of Science, Jadavpur, India

- FP 578 Symmetric Dimethylated Arginines Residues in Proteins from Human Lung Cancer Cells; Stephanie Lehman¹; Hongshan Chan²; Dina L Bai³; Jeffrey Shabanowitz³; Donald F Hunt³; David Shechter⁴; ¹University of Virginia, Charlottesville, VA; ²Nanjing Medical University, Nanjing, China; ³University of Virginia, Charlottesville, VA; ⁴Albert Einstein College of Medicine, New York, NY
- TP 579 Identification and Selective Enrichment of Functional Arginine Residues Using Bio-Orthogonal Click Chemistry and Mass Spectrometry; Maheshika S.K. Wanigasekara¹; Abu Hena M Kamal¹; Saiful M. Chowdhury¹; ¹University of Texas at Arlington, Arlington, TX
- TP 580 Proteome-Wide Acetylation Dynamics Revealed by Metabolic Labeling and Quantitative Proteomics;

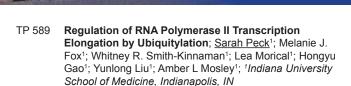
 Yekaterina Kori¹; Simone Sidoli¹; Zuo-Fei Yuan¹; Peder J.

 Lund¹; Xiaolu Zhao²; Benjamin A. Garcia¹; ¹Epigenetics

 Program, Department of Biochemistry and Molecular

 Biophysics, University of Pennsylvania School of Medicine,

 Philadelphia, PA; ²Wuhan University, Wuhan, China
- TP 581 Site-specific N-Glycosylation Mapping for Glycopeptides in the Presence of Additional Unknown Post-Translational Modifications (II) by Y1 (Peptide + HexNAc) Ion; Benlian Wang^{1, 2}; David Salom^{3, 4}; Krzysztof Palczewski³; Mark R. Chance^{1, 2}; ¹Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH; ²Department of Nutrition, Case Western Reserve University, Cleveland, OH; ³Department of Pharmacology, Case Western Reserve University, Cleveland, OH; ⁴Polgenix, Inc., Cleveland, OH
- TP 582 Reversible Phosphorylation of the RVSF Motif in PP1
 Regulatory Proteins by Aurora B Controls PP1 Docking
 During the Cell Cycle; Isha Nasa^{1,2}; Scott Rusin¹; Arminja
 Kettenbach¹; Greg Moorhead²; **Department of Biochemistry,
 Dartmouth College, Lebanon, NH; **2University of Calgary,
 Calgary, AB
- TP 583 Strategies for Enriching and Identifying the Farnesyl Peptide from Complex Sample Using Mass Spectrometry; Zixiang Fang¹; Saiful M. Chowdhury¹; ¹University of Texas at Arlington, Arlington, TX
- TP 584 Identification of Novel E3 SUMO Ligase PIAS1
 Substrates by Quantitative Proteomics; Chongyang Li¹;
 Francis McManus¹; Pierre Thibault¹; ¹IRIC-Université de Montréal, Montréal, QC
- TP 585 Dynamic Mapping of Glyco-Conjugates in Human Prefrontal Cortex via Neuroglycomic Approach Reveals Age- and Region-Specific Biosynthetic Pathway; Jua Lee¹,²; Sumin Kim¹,²; Sureyya Ozcan³; Sabine Bahn³; Hee-Sup Shin⁴; Hyun Joo An¹,²; ¹Asia Glycomics Reference Site, Chungnam National University, South Korea; ²Graduate School of Analytical Science and Technology, Chungnam National University, South Korea; ³Institute of Biotechnology, University of Cambridge, UK; ⁴Center for Cognition and Sociality, Institute for Basic Science, South Korea
- TP 586 Top-Down Mass Spectrometry Reveals the Impact of Cardiac Tissue Handling on Myofilament Protein PTMs; Wenxuan Cai¹; Beini Lyu²; Zachary L Hite³; Zhijie Wu³; Ziqing Lin²; Zachery R Gregorich²; Takushi Khomoto²; Ying Ge².³; ¹University of Wisconsin-Madison, Madison, Wl; ²University of Wisconsin Madison, Madison, Wl; ³University of Wisconsin Madison Department of Chemistry, Madison, Wl
- TP 587 Direct and Indirect Analysis of S-Palmitoylated Proteins in Ocular Lens by Mass Spectrometry; Zhen Wang¹; Kevin L. Schey²; ¹Vanderbilt University, Nashville, TN; ²Vanderbilt University, Nashville, TN
- TP 588 Probing the Deleterious Effects of Protein Aging by Tracking Isomerization in the Human Eye Lens; <u>Yana Lyon</u>¹; Ryan R Julian²; ¹University of California, Riverside, Riverside, CA; ²UC Riverside, Riverside, CA



- TP 590 Expanding OxcyscPILOT to Study SNO and S-acyl in Aging Brain; Ryan R Dyer¹; Renã A.S. Robinson¹;

 1 University of Pittsburgh, Pittsburgh, PA
- TP 591 Moneyball for PTMs: The Science of Winning the Unfair Game of Functional PTM Prognostication; Matthew P.

 Torres¹; Henry M Dewhurst¹; ¹School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA
- TP 592 Serotransferrin Glycation and Ceruloplasmin
 Deamidation Result in their Increased Degradation
 in Type 2 Diabetes; Makan Golizeh¹; Kwangwon Lee²;
 Serguei Ilchenko²; Abdullah Osme²; James Bena³; Rovshan
 Sadygov⁴; Takhar Kasumov²; ¹Northeast Ohio Medical
 University, Rootstown, Ohio; ²Northeast Ohio Medical
 Univeristy, Rootstown, Ohio; ³Cleveland Clinic Foundation,
 Cleveland, Ohio; ⁴University of Texas Medical Branch,
 Galveston, TX
- TP 593 Convenient Strategy for Mapping N-Glycosylation Sites Using Microwave-Assisted Acid Hydrolysis; Cheng Ma¹; Peng George Wang²; ¹Georgia state university, Atlanta, GA; ²GSU, Atlanta, GA
- TP 594 Elucidating the Role of Histone H4 Lysine 79
 Monomethylation in Chlamydomonas reinhardtiiusing
 Top Down Mass Spectrometry and RNA interference;
 Jack W Clemmensen¹; Aliyya Khan¹; Anthony T. lavarone²;
 Gary H. Karpen³; James Pesavento¹; ¹Saint Mary's
 College of California, Moraga, CA; ²QB3/Chemistry Mass
 Spectrometry Facility, University of California, Berkeley, CA;
 ³Lawrence Berkeley National Laboratory, Berkeley, CA
- TP 595 Construct N-Glycan Databases for Glycoproteomics by Using a Canonical String Representation; Xiao-Jin Zhang¹; Wen-Feng Zeng¹; Jian-Qiang Wu¹; Yang Zhang²; Ming-Qi Liu²; Pan Fang²; Peng-Yuan Yang²; Si-Min He¹; ¹Institute of Computing Technology, Beijing, Beijing; ²Fudan University, Shanghai, Shanghai
- TP 596 Quantitative Analysis of Phosphotyrosine Signaling Reveals the Differential Mechanism of Mutated Granulocyte-Colony Stimulating Factor Receptors (G-CSFRs) Leading to Leukemia; Pankaj Dwivedi¹; David E Muench²; Mohammad Azam²; H. Leighton Grimes²; Kenneth D Greis¹; ¹University of Cincinnati, Cincinnati, OH; ²Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- TP 597 Mass Spectrometry-Based Analysis of an Emerging Post-Translational Modification, AMPylation, and its Role in Molecular Signaling; Kelly Servage¹; Amanda Casey¹; Junmei Zhang¹; Kim Orth¹; ¹UT Southwestern, Dallas. TX
- TP 598 Histone Epigenetic Changes in Response to Chronic Methamphetamine Abuse; Lisa M Orr¹; Molly H Tibbs¹; Chris Bolden¹; Eric C Peterson¹; Alan J Tackett¹; ¹University of Arkansas for Medical Sciences, Little Rock, AR
- TP 599 Detection of a Phosphorylated Glycine-Serine Linker in an IgG-Based Fusion Protein Using CID, EThcD, HCD, Peptide Spiking and Alkaline Phosphatase; Bjoern Mautz¹; Oksana Tyshchuk¹; Hans Rainer Voelger¹; Claudia Ferrara Koller²; Patrick Bulau³; Hans Koll¹; Michael Molhoj¹; ¹Roche Pharma Research and Early Development (pRED), Large Molecule Research, Roche Innovation Center Munich, Penzberg, Germany; ²Roche Pharma Research and Early Development (pRED), Discovery Oncology, Roche Innovation Center Zurich, Schlieren, Switzerland; ³Roche Pharma Technical Development Penzberg, Penzberg, Germany

- TP 600 Characterization of Post Translational Modifications of Light Exposed IgG1—Assay Optimization and Cross-Validation with Four Serine-Proteinases Digestions; Yao Chen¹; Anuja Ganesan¹; Victor Vinci¹; Yunsong Li¹; ¹COOK PHARMICA, Bloomington, IN
- TP 601 Charge State Distribution Modification as a Mechanism to Reduce Apparent Complexity of an Intact Fusion Protein Therapeutic; Matthew D Maust¹; Katy Ryan¹; Heather Anderson¹; Harsha Gunawardena²; Andrew Mahan²; Eric Beil²; Hirsh Nanda²; ¹Protea Biosciences, Morgantown, West Virginia; ²Janssen Pharmaceuticals R&D, Spring House, PA

PROTEOMICS: QUANTITATIVE II 602 - 652

- TP 602 **Discovery-Based Proteomics Identifies Molecular** Signatures Associated with Hydrosalpinx ; Elizabeth Yohannes¹; Avedis Kazanjian²; Gregory Chow³; Ronald Beesley⁴; Ryan Heitmann³; Richard Burney^{3, 5}; ¹Department of Clinical Investigation, MADIGA Army Medical Center, 9040 Jackson Ave., Tacoma, WA; ²Department of Clinical Investigation, MADIGAN Army Medical Center, 9040 Jackson Ave., Tacoma, WA; 3 Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility, MADIGAN Army Medical Center, 9040 Jackson Ave, Tacoma, WA; ⁴Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology and Infertility, MADIGAN Army Medical Center, 9040 Jackson Ave. Tacoma, US; 5Department of Clinical Investigation, MADIGAN Army Medical Center, 9040 Jackson Ave, Tacoma, WA
- TP 603 Exploring Proteins Expressed Exclusively within the Inner Ear Hair Cells as Potential Drivers of Deafness;

 Miguel Ramirez¹; Ann E. Hickox¹; Ann C.Y. Wong², ³; Kwang Pak²; Chelsee Strojny¹; Allen F Ryan²; Jeffrey N Savas¹;

 ¹Northwestern University Feinberg School of Medicine, Chicago, Illinois; ²University of California, San Diego, La Jolla, CA; ³University of New South Wales, Sydney, Australia
- TP 604

 10-plex TMT Label-based Quantitative MS2 and MS3
 Proteomic Analysis of Hypertriglyceridemia-induced
 Brain Microvascular Lipotoxic Injury; Anthony W Herren¹;
 Tun Nyunt²; Brett S Phinney¹; John C Rutledge²; Hnin H
 Aung²; ¹University of California, Davis, Genome Center,
 Davis, CA; ²University of California, Davis, School of
 Medicine, Internal and Cardiovascular Medicine, Davis, CA
- TP 605 Application of Scheduled GeLC-MRM Method for Highthroughput Screening of Small GTPases Involved in Colon Cancer Metastasis; Ming Huang¹; Yinsheng Wang¹; ¹University of California, Riverside, CA
- TP 606 Hepatic Mitochondrial Dysfunction in a Mouse Model of NASH is Associated with Increased Degradation of Mitochondrial Proteins; Kwangwon Lee¹; Abdullah Osme¹; Makan Golizeh¹; Serguei Ilchenko²; Mahbubur Rahman³; Rovshan Sadygov³; Takhar Kasumov¹; **Northeast Ohio Medical University, Rootstown, Ohio; **Northeast Ohio Medical University, Rootstown, OH; **University of Texas Medical Branch, Galveston, TX
- TP 607 Dynamic Changes of Ca2+-Mediated Signalosome by Exposure to High-Glucose Dependent Short-Term Time-Course in the Nuclear Proteome of Pancreatic B-Cells;

 Taewook Kang¹; Pia Jensen¹; Martin Røssel Larsen¹;

 Department of Biochemistry and Molecular Biology,
 University of Southern Denmark, Odense, Denmark
- TP 608 Changes in Mitochondrial Proteins, Metabolites, and Protein Acylation in Response to Macronutrient Stresses in the Mouse Liver; Jesse G. Meyer¹; Natan Basisty¹; Samir Softic²; Guoxiao Wang²; BIRGIT SCHILLING¹; Christopher Newgard³; C. Ronald Kahn²;



- Bradford W Gibson^{1, 4}; ¹Buck Institute for Research on Aging, Novato, CA; ²Joslin Diabetes Center, Harvard Medical School, Boston, MA; ³Sarah W. Stedman Nutrition and Metabolism Center, Duke University School of Medicine, Durham, NC; ⁴Amgen, Thousand Oaks, CA
- TP 609 Label Free Quantitative Proteomics Analysis Reveals the Pathways Involved in Factor VIII Secretion by the Bradykinin Activated Mouse Dendritic Cells; Cristina Clement¹; Monika Dzieciatkowska²; Antonia Follenzi³; ¹Albert Einstein College of Medicine, Bronx, NY; ²University of Colorado Denver, Denver, Colorado; ³School of Medicine, University of Piemonte Orientale, Novara, Italy
- TP 610 Methanosarcina mazei, acetivorans, and barkeri Proteomic Responses to Different Methylotrophic Substrates; Deborah A. Jarretti'; Farzaneh Sedighiani; Hong Hanh Nguyeni; Robert P. Gunsalusi; Joseph A. Looi; Rachel O. Looi; 'University of California, Los Angeles, Los Angeles, CA
- TP 611 Comparative Proteomic Analysis of Charcoal-Stripped Fetal Bovine Serum Revealed Modified Insulin-Like Growth Factor Signaling Responsiveness; CHENGJIAN TU ¹; Michael Fiandalo²; Jun Li¹; Jun Qu¹; Li Tang²; James L. Mohler²; Yue Wu²; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Cancer Institute, Buffalo, NY
- TP 612 Pulse Isotopic Labeling Analysis Revealed Temporal Dynamics of Lysine Acetylation Proteome; Tong Zhou¹; Luke Erber¹; Yue Chen¹; ¹University of Minnesota at Twin Cities, Minneapolis, MN
- TP 613 Isobaric TMT 10-plex Labeled MultiNotch MS3 Analysis of Biological and Technical Variance in Human Uterine Smooth Muscle Tissue; Craig Ulrich¹; Christian Copley-Salem¹; David Quilici¹; Heather Burkin¹; lain Buxton¹; Karen Schlauch¹; ¹University of Nevada, Reno, Reno, NV
- TP 614 Quantitative Proteomic Analysis Applied to
 Differentiation of SH-SY5Y Human Neuroblastoma Cells
 as an in vitro Neuron-Like Model; Jimmy Rodriguez¹;
 Aniel Sanchez²; Livia Goto-Silva³; Fábio CS Nogueira¹;
 Gilberto B Domont¹; Magno Junqueira¹; ¹Federal University
 of Rio de Janeiro, Rio de Janeiro, Brazil; ²Lund University,
 Lund, Sweden; ³Instituto D'Or de Pesquisa e Ensino, Rio de
 Janeiro. Brazil
- TP 615 Proteomic Profiles of H2S-regulated PTMs in Endothelial Cell under Hypoxia; Xinggui Shen; LSU Health-Shreveport, Shreveport, LA
- TP 616 Identifying the Roles of ARMS2 and HTRA1 in the Pathogenesis of AMD Using Quantitative Functional Proteomics; Joel D Federspiel¹; Todd M Greco²; Pierre Jean Beltran¹; Jim Handa³; Richard Semba³; Ileana M Cristea¹; ¹Princeton Universitry, Princeton, NJ; ²Princeton University, Princeton, NJ; ³Johns Hopkins University School of Medicine. Baltimore. MD
- TP 617 Quantitative Discovery of the Alterations of the Human Kinome in Primary and Metastatic Melanoma Cells; Weili Miao¹; Lei Guo¹; Yinsheng Wang¹; ¹University of California, Riverside, Riverside, CA
- TP 618 Analysis of Proteome Degradation Kinetics with in vitro and in vivo Models of Alzheimer's Disease; Timothy

 Hark¹; Yi-Zhi Wang¹; Samuel Smukowski¹; Jeffrey N Savas¹;

 ¹Northwestern University, Chicago, IL
- TP 619 Quantitative Proteomic Analysis of Cancer Cell Lines with Homozygous and Heterozygous Mutant KRAS Genotypes; Josip Blonder¹; Benjamin Orsburn²; Gordon R. Whiteley¹; ¹Frederick National Laboratory for Cancer Research (FNLCR), Leidos Biomedical Research Inc., Frederick, MD; ²Thermo Fisher Scientific, West Palm Beach, Florida
- TP 620 Comprehensive Analysis of Newly-Synthesized Protein Abundance Changes in Human Cells Stimulated with IGF1; Ming Tong¹; Haopeng Xiao¹; Johanna Smeekens¹; Ronghu Wu¹; ¹Georgia Tech , Atlanta, GA

- TP 621 Dynamics of Zebrafish Heart Regeneration Using an HPLC-ESI-MS/MS Approach; Danjun Ma¹; Yuxi Yang²; Chengjian Tu³; Quanhu Sheng⁴; Xin Lou²; ¹dongguan University of Technology, Dongguan, China; ²Nanjing Medical University, Nanjing, China; ³Department of Pharmaceutical Sciences, University at Buffalo, State University of New York, Buffalo, NY; ⁴Department of Cancer Biology,vanderbilt university, Nashville, TN
- TP 622 Quantitative Analysis of Two Cancer Signaling
 Pathways Using Multiplex-Immunoprecipitation and
 Targeted Mass Spectrometry; Bhavin Patel¹; Leigh
 Foster¹; Penny Jensen¹; Gregory Potts¹; Abid Haseeb¹; Kay
 Opperman¹; Rosa Viner²; Andreas Huhmer²; John Rogers¹;

 1 Thermo Fisher Scientific, Rockford, IL; 2 Thermo Fisher
 Scientific, San Jose, CA
- TP 623 A Targeted Quantitative Proteomic Approach for Profiling Guanine Nucleotide-Exchange Factors during Cancer Metastasis; Tianyu Qi¹; Weili Miao¹; Ming Huang¹; Yinsheng Wang¹; ¹UC Riverside, Riverside, CA
- TP 624 Analysis of Age-dependent Changes in the Proteome from *Drosophila melanogaster* Alzheimer's Disease Lines.; Chris Brown¹; Melissa A. Phelps²; Robert C. Eisman²; Jonathan Trinidad²; Thomas C. Kaufman²; David E Clemmer²; ¹Indiana University, Bloomington, IN; ²Indiana University Bloomington, Bloomington, IN
- TP 625 Relative Quantification Using TMT11plex on a Modified Q Exactive HF Mass Spectrometer; Tabiwang N. Arrey¹; Rosa Viner²; Ryan D Bomgarden³; Eugen Damoc⁴; Markus Kellmann⁴; Thomas Moehring⁴; Alexander Harder⁴; ¹Thermo Fisher Scientific, Bremen, Bremen; ²ThermoFisher, San Jose, CA; ³ThermoFisher Scientific, Rockford, Illinois; ⁴Thermo Fisher Scientific, Bremen, Germany
- TP 626 Development of a Novel Proteomics Approach to Investigate Cell Type-Specific Responses to Ethanol in Primary Glia and Neurons; Jennifer Guergues¹; Ashley E. Culver-Cochran¹; Ping Zhang²; Bin Liu²; Stanley M Stevens¹; ¹University of South Florida, Tampa, FL; ²University of Florida, Gainesville, FL
- TP 627 Global Proteome Characterization of Caenorhabditis elegans Duaer Larvae; Asifa K Zaidi¹; Krishna Vukoti¹;

 Masaru Miyagi¹; ¹Case Western Reserve Univers,
 Cleveland, OH
- TP 628 Global Analysis of Secreted Proteins and Glycoproteins in Saccharomyces cerevisiae; Johanna Smeekens¹; Haopeng Xiao¹; Ronghu Wu¹; ¹Georgia Institute of Technology, Atlanta, GA
- TP 629 Unbiased Discovery and Functional Confirmation of a Novel Target (DPP3) by Thermal Stability Label-Free Differential Mass Spectrometry (dMS); Steven Mullett¹; Harris Bell-Temin²; Bennett Van Houten²; Wei Qian²; Andrey Bondarenko³; Mark Schurdak⁴; D. Lansing Taylor⁴; Andrew Stern⁴; Nathan A Yates²; 'University Of Pittsburgh, Pittsburgh, Pennsylvania; ²University of Pittsburgh School of Medicine, Pittsburgh, PA; ³Infoclinika, Seattle, WA; ⁴Drug Discovery Institute, PIttsburgh, PA
- TP 630 **To TMT or LFQ, that is here the Question**; Jane M Liu¹; Michael J Sweredoski²; Annie Moradian²; <u>Sonja Hess</u>²; ¹Pomona College, Pomona, CA; ²California Institute of Technology, Pasadena, CA
- TP 631 Targeted Proteomics of Key Regulators of All-Trans Retinoic Acid During SIV Infection; Wenjing Li¹; Jianshi Yu¹; Neil Sidell²; Maureen A Kane¹; ¹University of Maryland, Baltimore, Maryland; ²Emory University, Atlanta, Georgia
- TP 632 Strategies in Proteomic Quantification Using Isobaric Labeling: Insights from the Partiality of MS2 Reporterion Ratios; Qiang Zhang¹; Petra Erdmann-Gilmore¹; Yiling Mi²; Rose Connors²; Sherri R. Davies²; Shunqiang Li²; Reid Townsend²; ¹Washington University School of Medicine, St. Louis, MO; ²Washington University School of Medicine, St. Louis, MO



TP 634 Pushing the Limits: Boosting Sensitivity of PRM
Assays for the Detection of Very Low Abundant
Proteins in Complex Samples; Emmanuelle Lezan¹;
Erik Ahrné¹; Thomas Bock¹; Alexander Schmidt¹; ¹PCFBiozentrum-University of Basel, Basel, Switzerland

TP 635 MRM and PRM Assay Development for a Panel of >3,000 Proteins from 20 Mouse Tissues; Sarah A.

Michaud¹; Nicholas J.T. Sinclair¹; Ingo Feldmann²; Yassene Mohammed¹.³; Derek S. Smith¹; Albert Sickmann²;
Christoph H. Borchers¹.⁴; ¹University of Victoria - Genome BC Proteomics Centre, Victoria, BC; ²Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V., Dortmund, Germany; ³Center for Proteomics and Metabolomics, Leiden University, Netherlands; ⁴Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC

TP 636 Sequential Enrichment and Quantification of Phosphorylation on Reversibly Oxidized Proteoforms in *Chlamydomonas reinhardtii.*; Leslie M. Hicks¹; Evan W. McConnell¹; Emily G. Werth¹; ¹UNC - Chapel Hill, Chapel Hill, NC

TP 637 Rapid and Accurate Instrumental Performance Gauge: Isotopologue Standards for Quality Control of LC-MS Platforms; Alvaro Sebastian Vaca Jacome¹; Gauthier Husson¹; Alain Van Dorsselaer¹; Christine Carapito¹; ¹IPHC, UdS, CNRS, UMR7178, Strasbourg, France

TP 638 Label Free Quantitative Proteomics Using Peptide Isotope Peak Intensities in Mass Spectrometry and Comparison of Label Free Methods; Ki Na Yun¹.²; Gun Wook Park¹; Ju Yeon Lee¹; Eun Sun Ji¹; Mee Jung Han³; Han Bin Oh²; Jong Shin Yoo¹; Jin Young Kim¹; ¹Biomedical Omics Group, Korea Basic Science Institute, Ochang-eup, Cheongwon-gu, South Korea; ²Department of Chemistry, Sogang University, 35 Baekbeom-ro, Mapo-gu, South Korea; ³Department of Biomolecular and Chemical Engineering, Dongyang University, Yeongju, South Korea

TP 639 Quantitative Proteomics Comparison of Individual vs Pooled Biological Replicates; <u>Deanna Plubell</u>¹; Phillip A. Wilmarth¹; Ashok P. Reddy¹; Alexandra M. Fenton¹; Jessica Minnier¹; Larry L. David¹; Nathalie Pamir¹; ¹Oregon Health & Science University, Portland, OR

TP 640 Activity-Based Profiling of Phosphoprotein Phosphatases by Mass Spectrometry-Based Proteomics; Scott P. Lyons¹; Isha Nasa¹; Greg Moorhead²; Arminja Kettenbach¹.³; ¹Department of Biochemistry and Cell Biology, Dartmouth College, Lebanon, NH; ²University of Calgary, Calgary, AB; ³Norris Cotton Cancer Center, Lebanon, NH

TP 641 Overclocking Multiplexed Proteomics: Millisecond Real-Time Searching Enables Data-Directed Quantitation; Brian K Erickson¹; Christopher Rose¹; Julian Mintseris¹; Derek Bailey²; Joao A Paulo¹; Graeme McAlister²; Aleksandr Gaun¹; Vlad Zabrouskov²; Steven P Gygi¹; ¹Harvard Medical School, Boston, MA; ²Thermo Fisher Scientific, San Jose,

TP 642 Benchmarking Proteome Quantitation: Measuring the Small Writ Large; Jeremy O'Connell¹; Joao Paulo¹; Jonathon O'Brien¹; Steven Gygi¹; ¹Harvard Medical School, Boston MA

TP 643 Multidimensional Tracking of GPCR Signaling via Peroxidase-Catalyzed (APEX) Proximity Labeling; Marian Kalocsay¹; Jaeho Paek¹; Joao A Paulo²; Andrew Kruse¹; Steven Gygi¹; ¹Harvard Medical School, Boston, MA; ²Havard Medical School, Boston, MA TP 644 A Quantitative Method for the Comparison of Mass Spectrometer Performance; Sandra Spencer¹; Eric Huang²; Neloni Wijeratne²; Oleg Silivra²; Claudia Martins²; Mary Blackburn²; Michael J MacCoss¹; ¹University of Washington Genome Sciences, Seattle, WA; ²ThermoFisher, San Jose, CA

TP 645 There Are No Absolutes, Particularly in Protein Quantification; Patricia L. Holland¹; James J. Walters²; Kevin Ray²; Uma Sreenivasan³; Sarah Aijaz³; Russell P. Grant¹; Christopher M. Shuford¹; ¹Laboratory Corporation of America, Burlington, NC; ²MilliporeSigma, St. Louis, MO; ³MilliporeSigma, Round Rock, TX

TP 646 Implementation of a Surrogate Cerebrospinal Fluid for use in Quantitative LC-MS Analysis of Monoclonal Antibodies against Neurodegenerative Disorders; Jens Rose Fogh^{1, 2}; Anne-Marie Jacobsen¹; Kasper D Rand²; Line R. Olsen¹; ¹H. Lundbeck A/S, Valby, Denmark; ²Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark

TP 647 Development and Validation of a LC-SRM Method for Simultaneous Quantification of α, β-Tubulin Isotypes in Microtubules from Various Cell Types; Christine Schaeffer-Reiss¹; Agnès Hovasse¹; Alain Van Dorsselaer¹; Maria M. Magiera²; Carsten Janke²; Morgane Batzenschlager³; Catherine Strassel³; François Lanza³; ¹IPHC, UdS, CNRS, UMR7178, Strasbourg, France; ²Institut Curie, Paris Orsay, France; ³UMR_S 949 Inserm, EFS-Grand Est, Université de Strasbourg, Strasbourg, France

TP 648 Standardizing and Harmonizing Multiple TripleTOF®
Systems for DDA and DIA Using a Dedicated
Performance Kit; Nicholas Morrice¹; Tom Knapman²;
Hunter Christie³; Robert Graham⁴; Julie Brazzatti⁴;
Anthony Whetton⁴; ¹Sciex, Warrington, Cheshire; ²SCIEX, Warrington, UK; ³SCIEX, Redwood City, CA; ⁴University of Manchester, Manchester, UK

TP 649 High Throughput Microflow LC-MS/MS for High Sensitivity Peptide Quantitation in Targeted Assays;
Remco van Soest¹; Christie Hunter¹; Morty Razavi²;
¹SCIEX, Redwood City, CA; ²SISCAPA Assay Technologies, Victoria, BC

TP 650 Implementation of Real-Time Update for Time Scheduled Targeted Peptide Quantification (PRM) on a new Quadrupole Orbitrap Benchtop Mass Spectrometer; Christian Thoeing¹; Sebastien Gallien²; Tabiwang Arrey¹; Kerstin Strupat¹; Yue Xuan¹; Oliver Lange¹; Markus Kellmann¹; ¹Thermo Fisher Scientific, Bremen, Germany; ²Thermo Fisher Scientific, Courtaboeuf, France

TP 651 Towards Comprehensive Signaling Pathway Monitoring Using Advanced PRM Methods; Sebastien Gallien¹; Yue Xuan²; Shouling Xu³; Markus Kellmann²; Bhavin Patel⁴; John C. Rogers⁴; Alexander Harder²; Andreas F. Huhmer⁵; Ken Miller⁵; ¹Thermo Fisher Scientific, Courtaboeuf, France; ¹Thermo Fisher Scientific, Bremen, Germany; ³Carnegie Institution for Science, Stanford, CA; ⁴Thermo Fisher Scientific, Rockford, IL; ⁵Thermo Fisher Scientific, San Jose, CA

TP 652 Endogenous AP-MS to Define the Huwe1 Interactome; <u>Katelyn Cassidy</u>¹; Scott A Gerber¹; ¹Dartmouth College, Lebanon. NH



PROTEOMICS: TOP DOWN ANALYSIS II 653 - 679

- TP 653 Assessment of the Noncovalent Interaction between FGF-2 and Glycosaminoglycans by Chip-Nanoelectrospray High Resolution Mass Spectrometry; Adrian-Cristian Robu¹; Laurentiu Popescu¹.²; Daniela G. Seidler³; Alina D. Zamfir¹; ¹National Institute for Research and Development in Electrochemistry and Condensed Matter, Plautius Andronescu Str. 1, RO-300224, Timisoara, Romania; ²Faculty of Physics, West University of Timisoara, Blvd. Vasile Parvan 4, RO-300223, Timisoara, Romania; ³Hannover Medical School, Dept. of Gastroentero-, Hepatoand Endocrinology I3, EB2/R3110, Carl-Neuberg-Str. 1, D-30625, Hannover, Germany
- TP 654 Statistical Fragmentation Pattern Discovery of Intact Proteins Based on their Large-Scale Top-down MS/MS Spectra; Ruixiang Sun^{1,2}; Ruimin Wang²; Hao Chi²; Chao Liu²; Simin He²; Ying Ge¹; **Iuniversity of Wisconsin, Madison, WI; **Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
- TP 654 Statistical Fragmentation Pattern Discovery of Intact Proteins Based on their Large-Scale Top-Down MS/MS Spectra; Ruixiang Sun^{1,2}; Ruimin Wang²; Hao Chi²; Chao Liu²; Simin He²; Ying Ge¹; **Iuniversity of Wisconsin, Madison, WI; **Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China
- TP 655

 Deciphering the Ubiquitin Code. Top-Down Analysis of Proteins Conjugated with Ubiquitin (Branched Proteins); Fabio Gomes¹; Dapeng Chen¹; Sitara Chauhan¹; Dulith Abeykoon¹; Yan Wang²; David Fushman¹; Catherine Fenselau¹; ¹Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742; ²Proteomic Core Facility, University of Maryland, College Park, MD 20742
- TP 656 Analysis of Myofilament Proteins from Skeletal Muscle Fibers by Top-Down Mass Spectrometry; Yutong Jin¹; Ziqing Lin¹; Gary Diffee¹; Ying Ge¹; ¹University of Wisconsin-Madison, Madison, WI
- TP 657 Improving High-Throughput Top-Down Proteomics
 Using a Modified Hybrid Quadrupole-Ultra-High-FieldOrbitrap Mass Spectrometer; Eugen Damoc¹; Kyle L.
 Fort²; Michiel van de Waterbeemd²; Christian Thoeing¹;
 Erik Cousijn¹; Tabiwang Arrey¹; Alexander Harder¹; Albert J.
 R. Heck²; Alexander Makarov¹; ¹Thermo Fisher Scientific,
 Bremen, Germany; ²Utrecht University, Utrecht, Netherlands
- TP 658 Coupling Reversed Phase Liquid Chromatography and Capillary Zone Electrophoresis for Top-Down Mass Spectrometry; Lushuang Huang¹; Zhe Wang¹; Hongyan Ma¹; Si Wu¹; ¹University of Oklahoma, Norman, OK
- TP 659 Mass Measurement Accuracy in Top-Down Protein Identification: Current Limits and Future Prospects;

 Christopher L Hendrickson^{1, 2}; Lissa C. Anderson¹; Greg T Blakney¹; Yuri E Corilo¹; Lidong He²; Tingting Jiang²; Alan G. Marshall^{1, 2}; Donald F. Smith¹; Chad R. Weisbrod¹;

 1 National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL
- TP 660 A Robust Top-down LC/MS-Based Proteomics Platform for Simultaneous Quantification of Protein Expression and Modifications; Ziqing Lin¹; Liming Wei¹.²; Wenxuan CAl¹; Wei Guo³; Stephen P Ford³; Gary M Diffee¹; Ying Ge¹; ¹University of Wisconsin-Madison, Madison, Wl; ²Fudan University, Shanghai, China; ³University of Wyoming, Laramie. WY
- TP 661 DRy Ion Localization and Locomotion (DRILL) MS
 Interface for Sensitivity Enhancement in Top-Down
 Proteomics; Alex Jonke¹; Jung Lee²; Peter Kottke²; David
 C. Muddiman³; Andrei G Fedorov²; Matthew P Torres¹;

 ¹School of Biological Sciences, Georgia Institute of

- Technology, Atlanta, GA; ²George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA; ³Department of Chemistry, North Carolina State University, Raleigh, NC
- TP 662 Multiplexing FTMS Data Analysis Workflow Improves Downstream Top-Down Structural Characterization of Proteins; Natalia Gasilova¹; Konstantin O. Nagornov²; Kristina Srzentic³; Anton N. Kozhinov²; Yury O. Tsybin²; Hubert H. Girault¹; *1EPFL Valais, Sion, Valais; *2Spectroswiss Sàrl, Lausanne, Switzerland; *3Northwestern University, Evanston, IL
- TP 663 A User-Friendly Bioinformatics Platform for Automated Continuous Elution Proteoform Analysis; Casey E Wing¹; John R Corbett¹.²; William S Phipps¹; Daniel A Plymire¹; Steven M Patrie¹.²; ¹University of Texas Southwestern Medical Center, Dallas, TX; ²University of Texas at Dallas, Richardson, TX
- TP 664 Fixed Charge Chemical Modifications for Enhanced Sequencing of Native-Like Proteins and Protein Complexes; Daniel Polasky¹; Philip C Andrews^{2, 3}; Brandon T Ruotolo²; ¹University of Michigan, Ann Arbor, MI; ²University of Michigan, Ann Arbor, MI
- TP 665 Charge State Analysis of Native, Denatured, and Carbamylated Proteins by UVPD; Aarti Bashyal¹; Sylvester M Greer¹; Jennifer S Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- TP 666 Quantitative Analysis of Free Circulating Light Chains
 Using a Tribrid Mass Spectrometer and Advanced
 Bioinformatics; Moshe Gatt¹; Alexandra Gabashvili²; David
 Morgenstern²; <u>Yishai Levin³</u>; <u>1Hadassah Medical Center</u>,
 Jerusalem, Israel; <u>2Weizmann Institute of Science</u>, Rehovot,
 Rehovot; <u>3Weizmann Institute of Science</u>, Rehovot
- TP 667 Capillary Electrophoresis Mass Spectrometry for Intact Mass Analysis of Antibodies and Antibody-Drug-Conjugates; Aran Paulus¹; Chien-Hsun Chen²; Andreas Krupke³; Stephane Houel²; Daniel Lopez Ferrer⁴; Michael Wenz³; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, South San Francisco, CA; ⁴Thermo Fisher Scientific, San Jose, California
- TP 668 Autoantibody Biomarker Discovery by Top-Down Proteomics of Serum from Patients with 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 Citv. OK
- TP 669 de novo Sequencing of Proteins by Top-Down 193 nm
 Ultraviolet Photodissociation Mass Spectrometry; <u>Kira Vyatkina</u>^{1, 2}; Jared B Shaw³; Ljiljana Pasa-Tolic³; ¹Saint
 Petersburg State University, St Petersburg, Russia; ²SPb
 Academic University, St Petersburg, Russia; ³Pacific
 Northwest National Laboratory, Richland, WA
- TP 670 Characterization and Quantitation of Tumor-Specific KRAS Proteoforms in Clinical Samples of Colon Cancer by Translational Top-Down Proteomics; Ioanna Ntai¹; Luca Fornelli¹; Josiah Hutton¹; Ryan T. Fellers¹; Gordon R. Whiteley².³; Emily Boja².³; Henry Rodriguez².³; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²NIH, Bethesda, MD; ³National Cancer Institute, Bethesda, MD
- TP 671 Analysis of Intact Hemoglobin Subunits with Ion Parking for Primary Structure Characterization; Elizabeth Duselis¹; Jane Yang²; Scott Ugrin¹; Dina L Bai¹; Jeffrey Shabanowitz¹; David Herold²; Donald F. Hunt¹; ¹University of Virginia, Charlottesville, VA; ²University of California, San Diego, La Jolla, CA



TP 673 Comparative Label-Free Quantitation of Mouse Brain Tissue Proteoforms Using Top-Down Proteomics; Hae-Min Park¹; Roderick G. Davis¹; Ryan T. Fellers¹; Joseph B. Greer¹; Elena V. Romanova²; Stanislav S. Rubakhin²; Richard D. LeDuc¹; Paul M. Thomas¹; Justin S. Rhodes²; Jonathan V. Sweedler²; Neil L Kelleher¹; ¹Northwestern University, Evanston, IL; ²University of Illinois at Urbana-Champaign, Urbana, IL

TP 674 Expanding Proteoform Identifications by Constructing Proteoform Families from Intact-Mass Measurements in Top-Down Proteomic Data; Leah V. Schaffer¹; Michael R. Shortreed¹; Anthony J. Cesnik¹; Brian L. Frey¹; Stefan K. Solntsev¹; Mark Scalf¹; Lloyd M. Smith¹; ¹University of Wisconsin Madison, Madison, WI

TP 675 **Proteoform Dynamics**; Tao Wang¹; Mathew V. Holt¹; Nicolas Leon Young¹; ¹Baylor College of Medicine, Houston, TX

TP 676 Validation of Chagas' Disease Serum Biomarkers by Intact Proteins Analysis; Elizabeth Ruiz Lancheros¹; Pierre-Olivier Schmit²; Eric Chatelain³; Jaime Altcheh⁴; Momar Ndao¹; ¹Research Institute - McGill University Health Centre, Montreal, Qc; ²Bruker Daltonics, Strasbourg, France; ³Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland; ⁴Hospital de Niños Dr. Ricardo Gutierrez, Buenos Aires, Argentina

TP 677 In-Depth Characterization of Intact Protein Standards
Using HRAM Top Down Mass Spectrometry with
Multiple MSMS Strategies; Romain Huguet¹; Helene
Cardasis¹; Christopher Mullen¹; Stephane Houel¹; Luca
Forneli²; Rosa Viner¹; Viktorija Vitkovskė³; Shanhua L.
Lin⁴; Seema Sharma¹; Vlad Zabrouskov¹; Neil L. Kelleher²;

1 Thermo Fisher Scientific, San Jose, CA; 2 Northwestern
University-Kelleher Research Group, Evanston, IL; 3 Thermo
Fisher Scientific, Vilnius, LT; 4 Thermo Fisher Scientific,
Sunnyvale, CA

TP 678 Quantitative, Localized Analysis of Mouse Brain Subregions by Top-Down Proteomics; Roderick G. Davis¹; Hae-Min Park²; Paul M. Thomas²; Ryan T. Fellers²; Joseph B. Greer²; Richard D. LeDuc²; Amy W. Lasek³; Rosalba Satta³; Jonathan V Sweedler⁴; Evena V. Romanova⁴; Stanislav Rubakhin⁴; Neil L. Kelleher²; ¹Northwestern University, Evanston, IL; ²Northwestern University, Evanston, IL; ²Northwestern University, Evanston, IL; ¹University of Illinois at Chicago, Chicago, IL; ⁴University of Illinois at Urbana-Champaign, Urbana. IL

TP 679 Top-Down Proteomic Analysis with Capillary Zone Electrophoresis-Mass Spectrometry; Robert N.

O'meally¹; Simion Kreimer¹; Robert N. Cole¹; ¹Mass Spectrometry and Proteomics Facility, Johns Hopkins School of Medicine, Baltimore, MD

SMALL MOLECULES: QUALITATIVE ANALYSIS 680 - 705

TP 680 Elimination of Toluene during Collision-Induced Fragmentation of Deprotonated N,N'-Diphenylacetyldapsone Generated by Negative-Ion Electrospray Ionization Mass Spectrometry; Chongming Liu¹; Athula Attygalle¹; ¹Stevens Institute of Technology, Hoboken, NJ

TP 681 Targeted Determination of Lipid Mediators in Mice Muscle Tissues Using Restricted Access Media-Based Pretreatment and Liquid Chromatography-Mass Spectrometry; Zhiying Wang¹; Liangqiao Bian²; Chenglin Mo¹; Maciej Kukula³; Kevin A. Schug⁴; Marco Brotto¹; ¹College of Nursing and Health Innovation, The University of Texas at Arlington, Arlington, TX 76019; ²SCAAC, University of Texas at Arlington, Arlington, TX 76019; ³SCAAC, UT Arlington, Arlington, TX 76019; ⁴Departments of chemistry and biochemistry, UT Arlington, Arlington, TX

TP 682 Quantitative Measurement of Unconjugated Phenylephrine in Human Plasma via UHPLC with Tandem Mass Spectrometry; Jingduan Chi¹; Yonghua Ling¹; Rand Jenkins²; Fumin Li¹; ¹PPD Inc, Madison, WI; ²PPD Inc, Richmond, VA

TP 683 Challenges Developing Sensitive Quantitative
Assaysfor Cyclophosphamide and
4-Hydroxycyclophosphamide in Human Plasma Using
HPLC-MS/MS; Aihua Liu¹; Lijuan Fu¹; Qian Guo¹; Bryce
Ashby¹; Scott Reuschel¹; Min Meng¹; ¹Covance, Salt Lake
City, UT

TP 684 Development and Validation of an LC-MS/MS Method for the Quantitation of Plerixafor in Human Plasma and Urine; Hui Hong¹; Dawei Zhou²; Baomin Xin¹; Xinping Fang²; Xin Zhang¹; ¹WuXi AppTec (Shanghai) Co. Ltd, Shanghai, China; ²WuXi AppTec. Inc, Plainsboro Township, NJ

TP 685 Elimination of Endogenous Light-Sensitive
Compounds in Human Plasma by UV-Irradiation for the
Determination of Tretinoin and Isotretinoin by LC-MS/
MS; Romain Beauvois¹; Milton Furtado¹; Anahita Keyhani¹;

Altasciences. Laval. QC

TP 686 Identification Criteria for the Analysis of Biomarkers of Chemical Warfare Agents; R.V.S. Murty Mamidanna; Organisation for the Prohibition of Chemical Weapons, The Hague, Netherlands

TP 687 Elimination of Ionization Suppressing Dosing Excipient from LC-MS Method for Bendamustine and M3 in Human Plasma; Theodore Brus; Covance, Indianapolis, IN

TP 688 Quantitation of Lidocaine and Its Metabolites in Human Plasma; Adrian Bott1; Tim Shoaf2; 1BASi, West Lafayette, IN; 2BASi, West Lafayette, IN

TP 689 Analysis of Extractable and Leachable (E&L)
Compounds Using a Novel Low-Energy El Capable
High Resolution Accurate Mass GC/Q-TOF; Kevin
Rowland¹; Mark Jordi¹; Kai Chen²; Jennifer Sanderson²;
¹Jordi Labs, Mansfield, MA; ²Agilent Technologies, Santa
Clara, CA

TP 690 Extractable Study of a Drug Delivery Device - Vaginal Rings; Li Xu¹; John lannone¹; Wei Zhang¹; Kate Comstock²; Ekong Bassey³; John Schmelzel³; Tom Carrell³; ¹AMRI, Albany, NY; ²Thermo Fisher Scientific, San Jose , CA; ³Thermo Fisher Scientific, San Jose, CA

TP 691 Extractables Analysis of Pharmaceutical Container/
Packaging Labels; John lannone¹; Li Xu¹; Wei Zhang¹;
Kate Comstock²; Ekong Bassey³; John Schmelzel⁴; Tom
Carrell⁴; ¹AMRI, Albany, NY; ²Thermo Fisher Scientific, San
Jose, CA; ³ThermoFisher, San Jose, CA; ⁴Thermo Fisher
Scientific, San Jose, CA

TP 692 Fragmentation Patterns in the Mass Spectra of Fentanyl-Type Compounds; <u>Kirill Tretyakov</u>¹; Edward White V¹; Stephen Stein¹; 'National Institute of Standards and Technology, Gaithersburg, MD

TP 693 LC/MS/MS Method Validation for the Determination of Methamphetamine Enantiomers in Human Urine Utilizing a Novel Production Friendly Chiral Column; Amber Awad¹; Ana Celia Grenier Ph.D¹; Lawrence J. Andrade¹; ¹Dominion Diagnostics, North Kingstown, RI

TP 694 Development and Validation of a Simple & Rugged LC-MS/MS Method for Determination of Unbound and Total Tiopronin in Human Plasma; Ben Gaboury¹; Nick Peng¹; Ardeshir Khadang¹; ¹Axis Clinicals, Dilworth, MN



- TP 695 Development and Validation of a Sensitive and Rugged LC-MS/MS Method to Measure Phenylephrine and Chlorpheniramine in Human Plasma; Nick Peng¹; Ben Gaboury¹; Ardeshir Khadang¹; ¹Axis Clinicals, Dilworth, MN
- TP 696
 Non-Targeted Characterization of Low Molecular Weight Organic Matter along Alaskan Soil Depth Profile Using RP and HILIC Coupled with nano-ESI-HRMS/MS; Mallory P Ladd¹; Colleen M Iversen¹.²; Stan D Wullschleger².³; Shawn R Campagna⁴; Robert L Hettich¹.⁵; ¹Bredesen Center for Interdisciplinary Research and Graduate Education, Knoxville, TN; ²Climate Change Science Institute, Oak Ridge National Laboratory, Oak Ridge, TN; ³Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN; ⁴Department of Chemistry, University of Tennessee, Knoxville, TN; ⁵Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN
- TP 697 **Stability Evaluation of Captopril in Human Blood by LC-MS/MS**; <u>Eugenie Raphaelle Bérubé</u>¹; Milton Furtado¹;
 Anahita Keyhani¹; ¹Altasciences, Laval, QC
- TP 698 An LC-MS Screening Platform to Simultaneously Detect Clinically Relevant Antibiotics in Cholera Patient Urine and Stool; <u>Ludmila Alexandrova</u>¹; Allis Chien¹; Vasavi Ramachandran²; Paul Bollyky³; Eric Nelson^{2, 4}; ¹Stanford University Mass spectrometry, Stanford, CA; ²Department of Pediatrics, Stanford, CA; ³Department of Medicine, Stanford, CA; ⁴Emerging Pathogens Institute, Department of Pediatrics, University of Florida, Gainesville, FL
- TP 699 Characterization of Industrial Amine-Based UVC Products by Chromatography-Mass Spectrometry (GC/GCMS, LC/LCMS) for REACH Registration; Dale A. Willcox¹; Steve E. Deppen¹; Kelli L. Magarelli¹; Noelle M. Elliott¹; ¹Intertek Allentown, Allentown, PA
- TP 700 Towards Quantitative Analysis without Standards:
 Chromatographic Retention Time as a Predictor of
 Mass Spectrometric Response Factor; Daniel Foil¹; Nadja
 B. Cech¹; Daniel A Todd¹; ¹University of North Carolina at
 Greensboro, Greensboro, NC
- TP 701 Multi-Class, High-Throughput Analysis of Drugs in Equine Urine and Blood by Liquid Chromatography-High Resolution Accurate Mass Spectrometry for Racing Regulation; Efthimia Papastavros¹; Kenneth P. Matuszak²; David J. Borts¹; ¹lowa State University, Ames, lowa; ²Thermo Fisher Scientific, Bannockburn, IL
- TP 702 Spatially Resolved, Quantitative Analysis of Small Molecules in Tissue Using A Laser Capture Microdissection (LCM)-LC/MS Platform; Chenqi Hu¹; Jamie Erickson²; Youngjae Kim²; Soumya Mitra²; Stephanie Gaudette²; Annette Schwartz Sterman²; David Duignan²; Edit Tarcsa²; ¹AbbVie, Worcester, MA; ²AbbVie, Worcester, MA
- TP 703 UVPD as a Unique Fragmentation Tool for Complete Structure Determination and Substructure Identification of Small Molecules; Romain Huguet¹; Seema Sharma¹; Christopher Mullen¹; Jesse Canterbury¹; Mark Berhow²; Vlad Zabrouskov¹; Tim J. Stratton¹; ¹Thermo Fisher Scientific, San Jose, CA; ²USDA, ARS, NCAUR, Peoria, IL
- TP 704 Generation of an Electronic Cigarette Liquid Profile Library Using GCQTOFMS and Chromatographic Deconvolution and Comparison Software to Screen for Additives; Hayley Abbiss^{1,2,3}; John H Moncur¹; Scott J Campbell¹; Robert D Trengove^{2,3}; *SpectralWorks, Runcorn, UK; *2Murdoch University, Perth, Western Australia; *3Separation Science and Metabolomics Laboratory, Murdoch University, Perth, Australia
- TP 705 A Comparison of the Reactivity of Para-Benzynes in Gas Phase and Solution; Rashmi Kumar¹; Hilkka Kenttamaa²;

 1 Purdue University, West Lafaytte, Indiana; 2 Purdue University-Department of Chemistry, West Lafayette, IN

SMALL MOLECULES: QUANTITATIVE ANALYSIS II 706 - 727

- TP 706 Long-Term Monitoring of di-(2-Ethylhexyl)Phthalate (DEHP) Exposure in Hair Using On Line Solid Phase Extraction and Liquid Chromatography Tandem Mass Spectrometry; Yan Zin Chang; , Taichung, Taiwan
- TP 707 An LC-MS/MS Method Improvement and Validation for Determination of Yeliva in Rat and Dog Plasma; Xiaodong Shen¹; Xiao Ming Gan¹; Rwaida Al-Eryani¹; Sridhar Korasikha¹; Sangeeta Rajasingam¹; Alain Guimond²; Reza Fathi³; Gary Johnson¹; ¹ITR Laboratories, Montreal, QC; ²Insymbiosis, Montreal, Qc; ³RedHill Biopharm Ltd., Tel Aviv. Israel
- TP 708 Simultaneous Determination of Sugar Phosphates in Cancer Cells by Capillary Electrophoresis-Mass Spectrometry; Miso Nam^{1, 2}; Sunhee Jung^{1, 2}; Do Hyun Ryu¹; Geum-Sook Hwang²; *Sungkyunkwan University, Suwon, South Korea; *2Korea Basic Science Institute, Seoul, South Korea
- TP 709 Versatile Strategies for Analysis of Sulfonate Ester Related Genotoxic Impurities Based on High Performance Chromatography Combined with Mass Spectrometry; Zheng-Xiang Zhang¹; TAO BO¹; ¹Agilent Technologies (China), Beijing
- TP 710 Rapid Analysis of Histidine, Anserine and Carnosine in Mouse Skeletal Muscle Tissue by HILIC UPLC-MS/MS;

 David Hoetker^{1, 2}; Adjoa Boakye^{1, 2}; Jaron Thomas^{1, 2}; Jingjing Zhao^{1, 2}; Shahid Baba^{1, 2}; 'University of Louisville, Louisville, KY: 'Diabetes and Obesity Center, U of L. Louisville, KY
- TP 711 Determination of Fluticasone Propionate, Salmeterol, Naltrexone, and Buprenorphine in Human Plasma with Ultra-Sensitive LC-MS/MS Methods; Dawei Zhou¹; Pei Li¹; Thomas moran²; Mohamed Osman¹; Xinping Fang¹; ¹WuXi AppTec, Plainsboro, NJ; ²Shimadzu Scientific Instruments, Somerset, NJ
- TP 712 An Ultrafast LC/MS/MS Method for Characterization and Quantitation of Triton X-100 Extracted from Palm Oil;

 Udi Jumhawan¹; Jie Xing¹; Zhaoqi Zhan¹; ¹Shimadzu Asia Pacific, Singapore, Singapore
- TP 713 Quantitation of Endogenous β-Hydroxy-β-Methylbutyric Acid in Human Blood: Comparison between Dried Blood Spot, Dried Plasma Spot, and Liquid Plasma Analysis;

 <u>Carl Noren</u>¹; Stefan Ehling¹; Todime Reddy¹; ¹Abbott Nutrition, Columbus, OH
- TP 714 Validated LC-MS/MS Assay for Quantitation of Paclitaxel in Human Seminal Fluid; Robert Clegg1; Rachel Sun2;

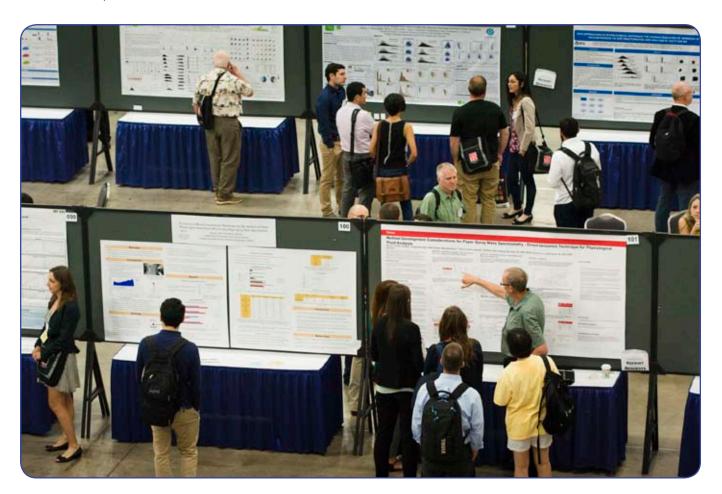
 1BASi, West Lafayette, IN; 2BASi, West Lafayette, IN
- TP 715 Sensitive Quantitative Measurement of Cortisol from Limited Human Hair Samples Using LC-MS/MS; David W. Erikson¹; Amy V. Kaucher¹; Emily Agan¹; Andrea J. Winchell¹; Steven W. Blue¹; Ashley Scherman²; Cynthia T. McEvoy²; Eliot R. Spindel¹; ¹Oregon National Primate Research Center, Beaverton, OR; ²Oregon Health & Science University, Portland, OR
- TP 716 An LC-MS/MS Method to Detect Antibiotic Residues in Distillers Grains to Address Concerns of Potential Antimicrobial Resistance Development; Hemakanthi De Alwis¹; Kaleb J Duelge¹; Upul Nishshanka¹; *Office of Research, Center for Veterinary Medicine, Food and Drug Administration, Laurel, MD
- TP 717 A Rugged Bioanalytical Method for Quantification of Liraglutide in Human Plasma by LC-MS-MS; Karin Keller¹; Heather McLaughlin¹; Laura Binneboese¹; Edward Wells¹; Steve Unger¹; ¹Worldwide Clinical Trials, Austin, TX
- TP 718 Method Development and Validation for the Quantification of Fulvestrant in Human Plasma Using LC-MS/MS; Guodong Gu¹; Yinghe Li¹; Anna Fiorella¹; Colt Cookson¹; ¹Alliance Pharma, Malvern, PA

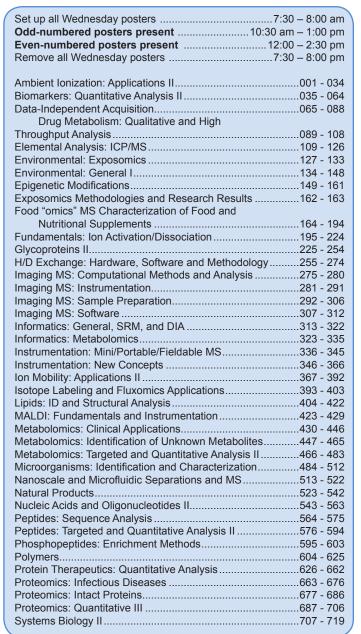


- TP 719 Screening Method for Methamphetamine and Amphetamine Using DART® MS Analysis Followed by Chiral Confirmation for D-Methamphetamine; Craig Aurand¹; Candace Price¹; Sara Smith¹; Emily Barrey¹; ¹MilliporeSigma, Bellefonte, PA
- TP 720 Analytical Data Longevity and Management for Regulatory Compliance Using AnIML Format and Cloud Technologies; John Gibbons¹; Viktor N lassinskii²; Burkhard Schaefer³; ¹SCIEX, Concord, ON; ²Sciex, Concord, ON; ³BSSN Software GmbH, Darmstadt, Germany
- TP 721 Trimester-Specific Progesterone Reference Intervals Established in Human Serum/Plasma Using a Fast LC-MS/MS Method Coupled with Differential Ion Mobility Spectrometry; Julie A Ray¹; Joely A Straseski¹.²; ¹ARUP Laboratories, Salt Lake City, UT; ²University of Utah, Salt Lake City, UT
- TP 722 Implementing GMP Impurity Methods on a Single Quadrupole LC/MS; Laura Hayter¹; Philip Anderson¹; Madelyn Hunsley¹; ¹Avista Pharma Solutions, Longmont, CO
- TP 723 Chiral Derivatization of D- and L-Eflornithine for Enantiomer Identification from a Racemate and Chromatographic Separation; Abram Brubaker¹; Neal Simmons¹; Ashley Brant¹; Ronald Shoup¹; ¹AIT Bioscience, Indianapolis, IN

- TP 724 Development of LC-MS/MS Detection Strategies in Rapamycin and Seco-rapamycin Whole Blood Bioanalysis; <u>Tobias Magers</u>¹; Brian Engel¹; Abram Brubaker¹; Brad King¹; Ashley Brant¹; Ronald Shoup¹; 'AIT Bioscience, Indianapolis, IN
- TP 725 A Rugged, Robust, Stereo-Selective LC/MS/MS Method for Simultaneous Determination of Two Enantiomers of a Small Molecule Antibiotic in Human Plasma; Ze Li¹; Patricia A. Hansen¹; Maral Llewellyn¹; ¹Covance, Indianapolis, IN
- TP 726 Analysis of Anamorelin Stereoisomers in Human Plasma Using Coupled Achiral / Chiral HPLC with Tandem Mass Spectroscopy Detection; Steven X. Yan¹; Anika Pippin¹; Yu-Hui Ann Fu¹; Julie Showalter¹; Gene Ray¹; Alberto Bernareggi²; Elizabeth Duus³; Yansheng Liu¹;

 ¹KCAS Bioanalytical Services, Shawnee, KS; ²Helsinn Healthcare SA, Lugano, Switzerland; ³Helsinn Therapeutics (US), Inc., Iselin, NJ
- TP 727 A High Sensitivity LC/MS/MS Method for Quantitative Analysis of Five Carcinogenic Dyes in Textiles; Yin Ling Chew¹; Felicia Xue Qi Tan²; Yi Hao Wee³; Jarren Ling Yao Tuang²; Djohan Kesuma¹; Jie Xing¹; Zhaoqi Zhan¹; ¹Shimadzu Asia Pacific, Singapore; ²School of Physical and Mathematical Science, Nanyang Technical University, Singapore; ³National University of Singapore





AMBIENT IONIZATION: APPLICATIONS II 001 - 034

WP 001 Spontaneous Desalting Droplet Spray Ionization for Direct and Sensitive Analysis of Seawater Sample; Hong Zhang¹; Jing He²; Na Li²; Jie Jiang²; ¹State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin, China; ²School of Marine Science and Technology, Harbin Institute of Technology at Weihai, Weihai, China

WP 002 Development of an In Vivo Real-time Monitoring System using Probe Electrospray Ionization/
Tandem Mass Spectrometry (PESI/MS/MS) and its Preliminary Applications; Kei Zaitsu¹-²; Yumi Hayashi¹-³; Tasuku Murata⁴; Tomomi Ohara²; Stéphane Moreau⁵; Maiko Kusano²; Hiroki Nakajima⁵; Hiroshi Tanihata⁴; Hitoshi Tshuchihashi²; Tetsuya Ishikawa³; Akira Ishii²; ¹In Vivo Real-Time Omics Laboratory, Institute for Advanced Research, Nagoya University, Nagoya, Japan; ²Department of Legal Medicine and Bioethics, Nagoya

University Graduate School of Medicine, Nagoya, Japan;
³Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan;
⁴Shimadzu Corporation, Kyoto, Japan;
⁵Shimadzu Europe GmbH, Duisburg, Germany;
⁵European Innovation Center, Shimadzu Europa GmbH, Duisburg, Germany

WP 003 High-throughput Intact Metabolome Analysis of Mouse Biological Specimens by Probe Electrospray Ionization/Tandem Mass Spectrometry (PESI/MS/MS); Yumi Hayashi^{1, 2}; Kei Zaitsu^{1, 3}; Tasuku Murata⁴; Shiono Baba³; Tomomi Ohara³; Stéphane Moreau⁵; Maiko Kusano³; Hiroki Nakajima6; Hiroshi Tanihata4; Hitoshi Tsuchihashi3; Akira Ishii³; Tetsuya Ishikawa²; ¹In Vivo Real-Time Omics Laboratory, Institute for Advanced Research, Nagoya University, Nagoya, Japan; ²Pathophysiological Laboratory Sciences, Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine, Nagoya, Japan; 3Department of Legal Medicine and Bioethics, Nagoya University Graduate School of Medicine, Nagova, Japan: 4Shimadzu Corporation, Kvoto. Japan; ⁵Shimadzu Europa GmbH, Duisburg, Germany; ⁶European Innovation Center, Shimadzu Europa GmbH, Duisburg, Germany

WP 004 Combining Molecularly Imprinted Polymer (MIP) and Paper Spray Mass Spectrometry for Agrochemical Screening in Foodstuffs; Boniek Gontijo Vaz¹; Igor Pereira¹; Andréia Rodrigues Chaves¹; ¹Federal University of Goiás. Goiânia. GO

WP 005 Coupling PaperSpray Technology to High-End Orbitrap Mass Spectrometry; Kerry Hassell¹; Maria C. Prieto Conaway²; ¹ThermoFisher Scientific, Somerset, NJ; ²ThermoFisher Scientific, San Jose, CA

WP 006 Depth-resolved Metabolite Analysis on a Plant Surface by Nanospray Desorption Electrospray Ionization (nano-DESI) Mass Spectrometry; Sangwon Cha¹; Gyuwoong Jun¹; Dongkun Lee¹; Purum Kim¹; ¹Hankuk University of Foreign Studies, Yongin, South Korea

WP 007 Illumination-assisted Droplet Spray Ionization: In Situ Analysis and Real-time Monitoring of Photocatalytic Reactions; Jie Jiang¹; Hong Zhang²; Na Li¹; ¹School of Marine Science and Technology, Harbin Institute of Technology at Weihai, Weihai, China; ²State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin, China

WP 008 Improving Quantification using PaperSpray Ionization Coupled to Ion Trap Mass Spectrometry for Clinical Research; Cornelia Leonie Boeser¹; Linfan Li¹; Jae C. Schwartz¹; ¹Thermo Fisher Scientific, San Jose, CA

WP 009 Investigating the Structural Transitions of Proteins during Dissolution by Mass Spectrometry; Xiaoyun Gong¹; Xingchuang Xiong²; Xiang Fang²; ¹, Beijing, Beijing; ²National Insititute of Metrology, Beijing, China

WP 010 Molecular Discrimination of Follicular Thyroid
Adenomas and Carcinomas using Ambient Ionization
Mass Spectrometry; Rachel J. DeHoog¹; Jialing Zhang¹;
Elizabeth Alore²; Wendong Yu²; Rob Tibshirani³; Anton F
Engelsman⁴.⁵; Stan B Sidhu⁴.⁵; James Suliburk²; Livia S.
Eberlin¹; ¹University of Texas at Austin, Austin, TX; ²Baylor
College of Medicine, Houston, TX; ³Stanford University,
Stanford, California; ⁴Royal North Shore Hospital, Sydney,
Australia; ⁵University of Sydney, Sydney, Australia

WP 011 Online Examination of Catalytic Oxidation of Glucose by Ambient Liquid-Assisted Ionization Mass Spectrometry; Yan Wang¹; Jin Ouyang¹; Na Na¹; ¹Beijing Normal University, Beijing, China

WP 012 Picomole-Scale Real-Time Photoreaction Screening: Discovery of the Visible-Light-Promoted Dehydrogenation of Tetrahydroquinolines under Ambient Conditions; Qiongqiong Wan¹; Suming Chen²;



- Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH; ²Johns Hopkins University, Baltimore, MD
- WP 013 Preparative Electrospray and Preparative Reactive Extractive Electrospray for Route Prediction and Optimization of Atropine Synthesis in Microfluidics;

 Caitlin Falcone¹; Zinia Jaman¹; Michael Wleklinski¹; Andy Koswara¹; David H. Thompson¹; R. Graham Cooks¹;

 1 Purdue University, West lafayette, IN
- WP 014 The Utility of Hydrophobic Paper Strips in the Direct Analysis of Dried Biofluids Using Mass Spectrometry;

 Deidre E. Damon¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- WP 015 Thread Spray Mass Spectrometry for In-Situ Analysis of Capsaicinoids; Sierra Jackson¹; Devin J. Swiner¹; Bridget K. Walsh¹; Yaman Kouatli¹; Abraham K. Badu-Tawiah¹; ¹The Ohio State University, Columbus, OH
- WP 016 Whole Body Skin Imagings of Medicines and Metabolitesby Thermal Desorption-Electrospray Ionization/Mass Spectrometry; Jentaie Shiea 1; Jia-Ming Lin1; Yang-Kuang Pan1; Yu-Hsuan Kuo1; Hung Su1; 1National Sun Yat-Sen University. Kaohsiung. Taiwan
- WP 017 Acceleration of Claisen-Schmidt Reaction with Preparative Sonic Spray Ionization; Zhenwei Wei¹; Michael Wleklinski¹; Caitlin E. Falcone¹; Graham Cooks¹; ¹Purdue University, West lafayette, IN
- WP 018 Amino Acids Desalt Protein Samples during DESI-MS Analysis; Roshan Javanshad¹; Elahe Honarvar¹; Andre R. Venter¹; ¹Western Michigan University, Kalamazoo, MI
- WP 019 Application of T-probe to MS Metabolomics analysis of live single cells; Renmeng Liu¹; Yanlin Zhu¹; Ning Pan¹; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK
- WP 020 Automated PaperSpray Sample Preparation using a Robotic Autosampler for Clinical Research; Steven L. Reeber¹; Lucas Luethy²; Cornelia Leonie Boeser¹; John Glazier¹; ¹Thermo Fisher Scientific, San Jose, CA; ²CTC Analytics AG, Zwingen, Switzerland
- WP 021 Detection and Imaging of Thermochromic Ink
 Compounds in Erasable Pens using Desorption
 Electrospray Ionization Mass Spectrometry (DESIMS); Amin Khatami¹; Shamina Prova S. Prova¹; Aafreen
 Bagga¹; Michelle Ting¹; Gurnoor Brar¹; Demian R. Ifa¹; ¹York
 University, Toronto, ON, Canada
- WP 022 Distinguishing Non-Small Cell Lung Cancer Subtypes by Desorption Electrospray Ionization Mass Spectrometry; Alena Bensussan¹; Tanweer Zaidi²; Ruth Katz²; Erik Cressman²; LIVIA S. EBERLIN¹; ¹University of Texas at Austin, Austin, TX; ²MD Anderson Cancer Center, Houston. TX
- WP 023 Evaluation of Stainless Steel Electrospray Electrodes in Micro LC-MS/MS Analysis; Tomasz Bienkowski^{1, 2}; Konrad Piotr Kowalski^{1, 2}; ¹MS Ekspert Sp. z o.o., Gdańsk, Poland; ²Masdiag Sp. z o.o., Warszawa, Mazowieckie
- WP 024 Metabolite, Lipid, and Peptide Analysis of Single Neurons of Known Function in Lymnaea stagnalis by Capillary Microsampling Mass Spectrometry;

 Linwen Zhang¹; Nikkita Khattar¹; Zita Zrinyi²; Zsolt Pirger²; Ildiko Kemenes³; Gyorgy Kemenes³; Akos Vertes¹; ¹The George Washington University, Washington, DC; ²Balaton Limnological Institute, Tihany, Hungary; ³University of Sussex, Brighton, UK
- WP 025 Methodologies for Investigating Neurodegenerative Disorders using a Liquid-Microjunction Surface Sampling Probe; Emily L. Gill¹; Megan Marks¹; Richard A. Yost¹; Vinata Vedam-Mai¹; Timothy J. Garrett¹; ¹University of Florida, Gainesville, FL
- WP 026 Negative Ion Paper Spray for the Detection of Acidic Compounds; Josiah McKenna¹; Trevor Glaros²; Nicholas E. Manicke¹; ¹Indiana University-Purdue University Indianapolis, Indianapolis, IN; ²US Army ECBC, Aberdeen Proving Ground, MD

- WP 027 Paper Spray High-Resolution Accurate-Mass Spectrometry for Rapid Quantitation of NSAID Drugs in Equine Plasma; David J. Borts¹; Joseph H. Kennedy²; ¹Iowa State University, Ames, IA; ²Prosolia, Inc., Indianapolis . IN
- WP 028 Predictive Models of Negative Ion Electrospray
 Response Explored through Machine Learning
 Applications; Melanie T. Odenkirk¹; Ren T. Blackart¹;
 James M. Matilla¹; Michael L. Poltash¹; Stephen K. Lucas¹;
 Christine A. Hughey²; Jeff Jones³; ¹James Madison
 University, Harrisonburg, VA; ²James Madison University,
 Harrisonburg, VA; ³SoCal Bioinformatics Inc., Glendale, CA
- WP 029 Rapid Analysis of Forensic Related Samples using Ambient Ionization Techniques Coupled to High Resolution Mass Spectrometers; Eshwar Jagerdeo¹; Amanda Wriston²; ¹FBI Laboratory, Quantico, VA; ²FBI Laboratory, Huntsville, AL
- WP 030 Reaction Screening using Accelerated Reactions in Leidenfrost Droplets; Kiran Iyer¹; H. Samuel Ewan²; Seok-Hee Hyun²; Michael Wleklinski²; David H. Thompson²; R.Graham Cooks²; ¹Purdue University, West Lafayette, IN; ²Purdue University, West lafayette, IN
- WP 031 Direct Analysis of Alloys by Electrochemistry Spray Ionization Mass Spectrometry; Jiaquan Xu¹; Tenggao Zhu¹; Runhan Yan¹; Huanwen Chen¹; ¹East China University of Technology, Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Nanchang, China
- WP 032 MS Chemical Fingerprints Reveal the Molecular Dependence of Exhaust Particulate Matters on the Engine Speed; Yi Li¹; Hua Zhang¹; Kun Liu¹; Feifan Jie¹; Liang Zhu¹; Huanwen Chen¹; ¹East China University of Technology, Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Nanchang, China
- WP 033 Rapid Identification of Meat Species by Internal Extractive Electrospray Ionization Mass Spectrometry of Hemoglobin Selectively Extracted on Functionalized Graphene Oxide; Lili Song¹; Jiaquan Xu¹; Konstantin Chingin¹; Huanwen Chen¹; ¹East China University of Technology, Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Nanchang, China
- WP 034 Investigation on the Dehydroxylation of Hydroxyl Polycyclic Aromatic Hydrocarbons by Ambient Mass Spectrometry; Xiaoping Zhang¹; Yi Li¹; Jiaquan Xu¹; Huanwen Chen¹; ¹East China University of Technology, Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Nanchang, China

BIOMARKERS: QUANTITATIVE ANALYSIS II 035 - 064

- WP 035 High-thought Determination of Tryptophan and KynurenineinIDO Assay by LC-MS/MS; Xinfa Fu¹; Hongmei Wang¹; YI TAO¹; Xinping Fang¹; Xin Zhang¹; ¹WuXi AppTec Co., Shanghai, China
- WP 036 Development of an LC-MS/MS Method for the Quantitation of Fatty Acid Dicarboxylates, Potential Biomarkers for OATPFunction; Weigi Chen¹; Hong Shen²; Yurong Lai²; William Humphreys²; Jinping Gan²;

 1Bristol-myers Squibb, princeton, NJ; 2Bristol-Myers Squibb, Princeton, NJ
- WP 037 Determination of a Double-stranded Small Interfering RNA and its Two Single Strands in Sprague-Dawley Rat Plasma by LC-MS/MS; Yanfu Ren¹; Lili Xing¹; YI TAO¹; Xinping Fang¹; Xin Zhang¹; ¹WuXi AppTec Co., Shanghai, China
- WP 038 Differentiating Modes of Drug Induced Liver Injury using Parallel Reaction Monitoring LC-MS; Michelle R. Robinson¹; Lei Guo²; Raymond J. Gonzalez¹; Kara M. Pearson¹; Kevin P. Bateman¹; Daniel S. Spellman¹; ¹Merck Research Laboratories, West Point, PA; ²Sanofi Genzyme, Cambridge, MA



- WP 039 Sensitive and Specific Determination of N-Linked Oligomannoses in Mouse Plasma and Brain Tissue Using LC-HRAM Method; Yuhuan Ji¹; Qian Li¹; Jian Shi¹; John Chen¹; Chengjie Ji¹; Laixin Wang¹; Mo Qatanani²; Meng Chen²; ¹NovaBioAssays LLC, Woburn, Massachusetts; ²Alexion Pharmaceuticals, Lexington, Afghanistan
- WP 040 Absolute Quantitation of Acetaminophen-Modified HSA by LC-MRM; Timon Geib¹; André LeBlanc¹; Tze Chieh Shiao¹; Ghazaleh Moghaddam¹; Amal Guesmi¹; René Roy¹; Lekha Sleno¹; ¹UQAM, Montreal, QC, Canada, Canada
- WP 041 SWATH Proteome Phenotyping of Melanoma Identifies Biomarkers of MEK Response and Post Biopsy Survival; Christoph Krisp¹; Robert Parker²; Dana Pascovici¹; James Wilmott³; John F Thompson³; Graham J Mann³; Nicholas Hayward⁴; Richard A Scolyer³; Mark P Molloy¹; ¹Australian Proteome Analysis Facility, Sydney, NSW; ²Imperial College, London, UK; ³Melanoma Institute Australia, Sydney, Australia; ⁴Oncogenomics Laboratory, QIMR Berghofer Medical Research Institute, Brisbane, Australia
- WP 042 Phosphoproteins in Extracellular Vesicles as the Candidate Markers for Breast Cancer; I-Hsuan Chen¹; Liang Xue¹; Chuan-Chih Hsu¹; Juan Sebastian Paez Paez¹; Li Pan¹; Hillary Andaluz Aguilar¹; Michael K Wendt¹; Anton Iliuk¹; Jian-Kang Zhu¹; Andy Tao¹; ¹Purdue University, West Lafayette, IN
- WP 043 Biomonitoring Cooked Meat Carcinogen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in Human Hair and Prostate by Nano Liquid Chromatography-High Resolution Tandem Mass Spectrometry; Shun Xiao^{1, 2}; Jingshu Guo^{1, 2}; Byeong Hwa Yun^{1, 2}; Peter W. Villalta¹; Suprita Krishna³; Resha Tejpaul³; Paari Murugan⁴; Christopher J. Weight³; Robert J. Turesky¹.²; ¹Masonic Cancer Center, University of Minnesota, Minneapolis, MN; ²Department of Medicinal Chemistry, University of Minnesota, Minneapolis, MN; ³Department of Urology, University of Minnesota, Minneapolis, MN; ⁴Department of Laboratory Medicine and Pathology, University of Minnesota, Minneapolis, MN
- WP 044 Proteomic Signature of BRCA1-like Triple-Negative Breast Cancers with Homologous Recombination Deficiency; Youdinghuan Chen^{1, 2}; Nicole P. Jenkins¹; Yue Wang³; Johnathan D. Marotti⁴; Chao Cheng^{3, 5, 6}; Lucas A. Salas²; Brock C. Christensen^{2, 3, 6}; Todd W. Miller^{3, 6}; Arminja N. Kettenbach^{1, 6}; *1Department of Biochemistry and Cell Biology, Dartmouth College, Lebanon, NH; *Department of Epidemiology, Dartmouth College, Lebanon, NH; *Department of Pathology and Laboratory Medicine, Dartmouth College, Lebanon, NH; *Department of Biomedical Data Science, Dartmouth College, Lebanon, NH; *Norris Cotton Cancer Center, Lebanon, NH
- WP 045 Development of Chemical Isotope Labeling LC-MS for Metabolite Biomarker Discovery of Alzheimer's Disease in a Mouse Model; Xiaohang Wang¹; Xinyun Gu¹; Wei Han¹; Jing Yang¹; David Westaway¹; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada
- WP 046 High Sensitivity CZE-ESI-MS Investigations and Applications in Proteomics; Emily Amenson¹; Liangliang Sun²; Norman J Dovichi¹; ¹University of Notre Dame, Notre Dame, IN; ²Michigan State University, Lansing, MI
- WP 047 Novel GC-MS Method for the Characterization and Quantification of Short Chain Fatty Acids, Malonaldialdhyde, and Muconic Acid in Biological Samples; Blake Lynch¹; Daniel Conklin¹; Aruni Bhatnagar¹; Sanjay Srivastava¹; Pawel Lorkiewicz²; ¹University of Louisville, Louisville, KY; ²University of Louisville, Louisville, KY

- WP 048 Targeted Proteomic Characterization of Human Multipotent Stromal Cells Therapeutic Properties; Miljan Kuljanin¹; David A. Hess².³; Gilles A. Lajoie¹; ¹Don Rix Protein Identification Facility, Department of Biochemistry, Schulich School of Medicine and Dentistry, University of Western Ontario, London, Ontario; ²Krembil Centre for Stem Cell Biology, Molecular Medicine Research Group, Robarts Research Institute, London, Ontario; ³Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, University of Western Ontario, London, Ontario
- WP 049 Intelligent Algorithm using Particle Swarm Optimization (SWARM) with Enhanced Limit of Detection for Large Molecule Applications; Huy Bui¹; Christian Klein²; Alex Zhu³; Alex Mordehai²; Gregor Overney²; ¹Agilent Technologies, Santa Clara, CA; ²Agilent Technologies, Santa Clara, CA; ³Agilent Technologies, Inc., Wilmington, DE
- WP 050 High-precision Quantification of Warburg Effect Enzymes in a Comprehensive Panel of Breast Cancer Patient Derived Xenografts; Robert W. Sprung¹; Petra Erdmann-Gilmore¹; Sherri R. Davies¹; John A. Wrobel²; Rose Connors¹; Yiling Mi¹; Lisa J. Zimmerman³; Daniel C. Liebler³; Reid Townsend¹; ¹WUSTL, St. Louis, MO; ²UNC Chapel Hill, Chapel Hill, NC; ³Vanderbilt University Medical Center, Nashville, TN
- WP 051 Clinical Tracers: A Simple, Rapid and Simultaneous LC-MS Method to Measure Stable Isotope Enrichment of Glucose, Glycerol And Palmitic Acid; Peter J Walter¹; H. Martin Garraffo¹; Stephanie Chung¹; Rebecca J Brown¹; ¹NIH, Bethesda, MD
- WP 052 A Generic Kit-Based Approach for LC-MS/MS
 Quantification of Urinary Albumin for Clinical Research;
 Mary E Lame¹; Caitlin M Dunning²; Paula M Orens²;

 ¹Waters Technologies Corporation, Milford, MA; ²Waters
 Corporation, Milford, MA
- WP 053 LC-MS/MS Quantification of Urine Glycosaminoglycans in Children with Severe Malaria; Haoyue Zhang¹; J. Brice Weinberg²; Nicholas M Anstey³; Matthew P Rubach²; Tsin W Yeo⁴; Salvatore Florence⁵; Esther D Mwaikambo⁵; Donald L Granger⁶; David S Millington¹; ¹Duke University Pediatrics , Durham, NC; ²Duke University and VA Medical Centers, Durham, NC; ³Menzies School for Health Research and Charles Darwin University, Darwin, Australia; ⁴Lee Kong Chian School of Medicine, Nanyang Technological University, Nanyang, Singapore; ⁵Hubert Kairuki Memorial University, Dar es Salaam, Tanzania; ⁶University of Utah School of Medicine and VA Medical Center, Salt Lake City, UT
- WP 054 LC-SRM to Quantify Suitable Tau Peptides to Evaluate Animal Model and Follow Disease Progression;
 Chloe Bardet¹; Tanguy Fortin¹; Rodolphe Billiras²; Arnaud François²; Valérie Pasteau²; Karine Albinet²; Gaelle Rollinjego²; Fabrice lop²; Alain Gobert²; ¹Anaquant, Villeurbanne, France; ²Neuropsychiatry Innovation Therapeutic Pole, Institut de Recherches Servier, Croissy sur Seine, France
- WP 055 MRM-based Validation Assay for Serum Proteomic Alterations in Meningioma Patients; Shuvolina Mukherjee¹; Sujata Wajunj¹; Purushottam Sutar²; Ajit Datar²; Aliasgar Moiyadi³; Epari Sridhar³; Sanjeeva Srivastava¹; ¹Indian Institute of Technology Bombay, Mumbai, India; ²Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ³Tata Memorial Hospital, Parel, Mumbai, India
- WP 056 Quantitation of Orotic Acid in Human Urine on the AB SCIEX API-4000 LC-MS/MS System; YONG-XI Ll¹; Joshua Froning¹; Guangchun Zhou¹; ¹Medpace Bioanalytical Laboratory. Cincinnati. OH
- WP 057 Multi-Matrix LC-MS/MS Methods for Quantification of Neurological Biomarkers N-Acetyl Aspartic Acid and Homocarnosine; Dewakar Sangaraju¹; Xiao Ding¹; Sheerin K Shahidi-Latham¹; ¹Genentech, Inc, South San Francisco, CA



WP 059 Quantitative HPLC-MS/MS Analysis of Human Apolipoproteins Utilizing SILuMab as a Commercially Available Internal Standard and Standard 96-Well Plates; Caleb Robinson¹; Ann Hoffman¹; Chad D. Christianson¹; Jennifer S.D. Zimmer¹; Shane R. Needham¹; ¹Alturas Analytics, Inc., Moscow, ID

WP 061 Direct Measurement of Serotonin Synthesis as a Predictive Marker of Serotonin Pharmacodynamics and Disease-Induced Dysregulation; Richard Welford¹; Magali Vercauteren¹; Annette Trébaul¹; Christophe Cattaneo¹; Doriane Eckert¹; Marco Garzotti¹; Patrick Sieber¹; Jérôme Segrestaa¹; Rolf Studer¹; Peter M Groenen¹; Oliver Nayler¹; ¹Actelion Pharmaceuticals, Allschwil

WP 062 Analysis of Deuterated Phenanthrene Metabolites in Human Urine by GC-NICI-MS/MS-SRM; Kai Luo¹; Viviana Paiano¹; Steven G. Carmella¹; Jon B. Hochalter¹; Naomi Fujioka¹; Stephen S. Hecht¹; ¹University of Minnesota, Minneapolis, MN

WP 063 Simultaneous Quantitative Determination of Synthetic Cathinones Enantiomers in Urine and Plasma using GC-NCI-MS; Rashed Alrumaithi¹; Mohammad Almeetani²; Anas Alaidaros²; Adnan Lanjawi¹; Khaled Alsumaiti¹; ¹Dubai Police, Dubai, Dubai; ²United Arab Emirates University, Al Ain. United Arab Emirates

WP 064 Calculating Biological Age Using Label-Free Mass Spectrometry Based Proteomics; Harris Bell-Temin¹; Matthew Yousefzadeh²; Jessica Snyder³; Warren Ladiges³; Paul Robbins²; Laura Niedernhofer²; Nathan A Yates¹;

1 University of Pittsburgh School of Medicine, Pittsburgh, PA;
2 The Scripps Research Institute, Jupiter, FL; 3 University of Washington, Seattle, WA

DATA-INDEPENDENT ACQUISITION 065 - 088

WP 065 Profiling Biochemical Individuality: Human Personal Omics Profiling (hPOP); Sara Ahadi¹; Hannes Roest¹; Liang Liang¹; Christie Hunter²; Mike Snyder¹; ¹Stanford School of Medicine, Stanford, CA; ²SCIEX, Redwood City, CA

WP 066 Characterization of Data-Independent Acquisition
(DIA) Capabilities of a Q-TOF Instrument for Complex
Proteomics Samples; Stephanie Kaspar-Schoenefeld¹;
Thomas Kosinski¹; Romano Hebeler¹; Pierre-Olivier Schmit¹;
Gary Kruppa¹; ¹Bruker Daltonik GmbH, Bremen, Germany

WP 067 PepShare Mapper – A Strategy to use Shared Peptides from SWATH-MS to Quantitate Isoforms and Analyze Mixed Species Proteomes; Christoph Krisp¹; Jemma Wu¹; Mark P Molloy¹; ¹Australian Proteome Analysis Facility, Sydney, NSW

WP 068 Analysis of m/z Distribution of Tryptic Peptides in Various Types Biological Samples, Supporting Generic DIA Strategies; Faraz Rashid¹; Manoj Pillai¹; Dipankar Malakar¹; ¹AB SCIEX, Gurgaon, Haryana

WP 069 Quantitative Analysis of Proteomic Samples using a Novel Scanning Quadrupole Method; Sarah Lennon¹; Gushinder Kaur-Atwal¹; Erika P Parkinson²; Paul J. Skipp²; Thérèse McKenna¹; ¹Waters Corporation, Wilmslow;

2Centre for Biological Sciences, University of Southampton, Southampton, UK

WP 070 Future Directions for Data-Independent Acquisition Modes Utilising a Scanning Quadrupole on Q-ToF Instruments; Keith G. Richardson¹; Jason L. Wildgoose¹;

Chris Hughes¹; Praveen Harapanahalli¹; ¹Waters Corporation, Wilmslow, UK

WP 071 Enhancing the Throughput and Robustness of DIA using a 150 µm EASY-Spray Column; <u>Joshua Nicklay</u>¹; Kerry M Hassell¹; Aran Paulus²; ¹Thermo Fisher Scientific, Somerset, NJ; ²Thermo Fisher Scientific, San Jose, CA

WP 072 Utilization of IM-MS Deconvolution for Reduced LC Separation Time Requirements in High-throughput Proteomics; Michael E. Pettit¹; Matthew R. Brantley¹; Fabrizio Donnarumma²; Kermit K. Murray²; Touradj Solouki¹;

Baylor University, Waco, TX; **Louisiana State University, Baton Rouge, LA

WP 073 Building a Community Platform for High-Throughput Data Independent Acquisition Analysis on the Cloud;

Jarrett Egertson¹; Brian Searle^{1, 2}; Sonia Ting¹; Lindsay K
Pino¹; Han-Yin Yang¹; Austin Keller¹; Vagisha Sharma¹;
Brendan MacLean¹; Michael J MacCoss¹; ¹University of Washington, Seattle, WA; ²Proteome Software, Portland, OR

WP 074 A New Approach to Generate High Quality Spectral Libraries and Determine Signal Interference in DIA Experiments; Antoine Lesur¹; Petr V. Nazarov¹; Sang Yoon Kim¹; Sébastien Gallien²; Gunnar Dittmar¹; Daniel Ayoub¹; ¹Proteome and Genome Research Unit, Department of Oncology, Luxembourg Institute of Health, Strassen, Luxembourg; ²Thermo Fisher Scientific, Courtaboeuf, France

WP 075 Data Independent Acquisition with a Fast Scanning, Low Resolution Hybrid Quadrupole-Linear Ion Trap;

Austin Keller¹; Jarrett Egertson¹; Brian Searle¹.²; Lindsay K Pino¹; Philip M Remes³; Romain Huguet³; Michael J MacCoss¹; ¹University of Washington, Seattle, WA; ²Proteome Software, Portland, OR; ³Thermo Fisher Scientific, San Jose, CA

WP 076 Using Orbitrap's Unique Strengths, Combined with DeepDIA's DeepSearch Protocol, to Maximize Sensitivity on DIA-capable Orbitrap Instruments; Dennis Goldfarb¹; Gautam Saxena¹; ¹DeepDIA, Bethesda, MD

WP 077 A Dual Workflow to Improve the Protein Coverage for Plasma Data-Independent Analysis; Shenyan Zhang¹; Qin Fu¹; Vidya Venkatraman¹; Ronald Holewinski¹, Jennifer Van Eyk¹; ¹Cedars-Sinai Medical Center, Los Angeles, CA

WP 078 **GPGPU-based Database-Search Engine for Feature Identification with DIA data**; <u>Yu Gao</u>¹; John R. Yates III¹;

1 The Scripps Research Institute, La Jolla, CA

WP 079 Structural Elucidation of an Unknown Compound in Avocado Fatty Acid Methyl Esters (FAMEs) Extract Using APGC-HRMS; Lauren Mullin^{1,2}; Dana Krueger³; Melissa Phillips⁴; Sarah Dowd⁵; Joe Romano¹; Kenneth Rosnack¹; ¹Waters Corporation, Milford, MA; ²Örebro University, Örebro, Sweden; ³Krueger Food Laboratories Inc, Chelmsford, MA; ⁴NIST, Gaithersburg, MD; ⁵Waters Corporation, Beverly, MA

WP 080 Having a Free Lunch: A Combined DIA+DDA Approach Towards Spectral Library Generation for DIA Analysis using Spectronaut; Tejas Gandhi¹; Lynn Verbeke¹; Oliver M. Bernhardt¹; Roland Bruderer¹; Jan Muntel¹; Lukas Reiter¹; ¹Biognosys, Schlieren, Zurich

WP 081 Deep Proteomic Profiling using Data Independent Acquisition; Reta Birhanu Kitata^{1,2,3}; Pei-Yi Lin¹; Ching-Tai Chen⁴; Chia-Feng Tsai⁵; Alexey I. Nesvizhskii⁶; Ting-Yi Sung⁴; Yu-Ju Chen¹; ¹Institute of Chemistry, Academia Sinica, Taipei City, Taiwan; ²Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan; ³Molecular Science and Technology Program, Taiwan International Graduate Program, Academia Sinica, Taipei City, Taiwan; ⁴Institute of Information Science, Academia Sinica, Taipei City, Taiwan; ⁵Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan; ⁶Department of Computational Medicine and Bioinformatics and Department of Pathology, University of Michigan Medical School, Ann Arbor, MI



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- WP 083 From Targeted to Untargeted DNA Damage Screening
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 University of Minnesota, Minneapolis, MN; ²Department
 of Medicinal Chemistry, University of Minnesota,
 Minneapolis, MN
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 Vissers1; James I Langridge1; 1Waters, Manchester, UK
- WP 085 Comprehensive DIA on a Q-ToF Instrument for Discovery and Quantitative Analysis Utilising a Scanning Quadrupole; <u>Jason Wildgoose</u>¹; Keith Richardson¹; Martin R. Green¹; **Waters Corporation, Wilmslow, UK
- WP 086 **De novo DIA Analysis (DDA)**; Richard S. Johnson¹; Brian Searle²; Austin Keller²; Michael J MacCoss²; ¹, Mercer Island, WA; ²University of Washington Genome Sciences, Seattle, WA
- WP 087 Universal Data-Independent LC-MS/MS Workflow for Host Cell Protein Characterization and Quantification in Biopharmaceutical Product Purification Process;

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- WP 088 Two-Dimensional Mass Spectrometry in a Linear Ion Trap; Maria A. van Agthoven¹; Christopher A. Wootton¹; Peter B. O'Connor¹; ¹University of Warwick, Coventry, Midlands, UK

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 ¹King Saud University, Riyadh, Riyadh
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- WP 092 Simultaneous Determination of Metabolic Stability and Metabolite Identification using a High-Resolution Mass Spectrometry; Zhican Wang¹; Min Jiang¹; Chi-Chi Peng¹; Dan Rock¹; Ji Ma¹; ¹Amgen, South San Francisco, CA
- WP 093 Strain and Sex Differences in Metabolism in Rats:
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- L. Dumouchel¹; Upendra A. Argikar¹; ¹Novartis Institutes for BioMedical Research, Cambridge, MA
- WP 094 Profiling of In Vitro and In Vivo Metabolites of Novel TKIs using LC-MS/MS Method: Metabolic Stability and Bioactivation Pathway Elucidation; Adnan A. Kadi¹; Hany W. Darwish¹.²; Mohamed W Attwa¹.²; Sawsan M. Amer²; ¹College of Pharmacy, King Saud University, Riyadh, Saudi Arabia; ²Faculty of Pharmacy, Cairo University, Cairo, Egypt
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Yi Zhang²; Eva Duchoslav³; DANIEL Villeneuve¹; Kevork Mekhssian¹; Anahita Keyhani¹; ¹Algorithme Pharma an Altasciences company, Laval, QC, Canada; ²Sciex, Frammingham, MA; ³Sciex, Concord, ON, Canada

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- WP 111 Quantitative Determination of Heavy Metals in Whole Blood using Inductively-Coupled-Plasma-Mass Spectrometry (ICPMS) by Microwave Digestion and Dilution Technique; Sampada Khopkar¹; Mangesh Pawar¹; Amol Shinde¹; Ankush Bhone¹; Ajit Datar¹; Jitendra Kelkar¹; Pratap Rasam¹; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India
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 TN; ²Oak Ridge National Lab, Oak Ridge, TN; ³University
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 ¹University of Illinois at Chicago, Chicago, IL
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- WP 152 Advancing SRM-based Proteomics for Detection and Quantitation of Histone Modifications in Sample Limited Applications; Nebiyu A Abshiru¹; Jacek W. Sikora¹; Philip D Compton¹; Paul M Thomas¹; Neil L Kelleher¹; *Northwestern University, Chicago, IL
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 1 University at Albany, Albany, NY; 2 The RNA Institute, University at Albany
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- WP 255 Development of an Internal Exchange Standard for Gas-phase Hydrogen/Deuterium Exchange Mass Spectrometry; Sanjit S Uppal¹; Sarah E Beasley¹; Miklos Guttman¹; ¹Department of Medicinal Chemistry; University of Washington, Seattle, WA
- WP 256 Discrimination of Isomeric Glycans by Gas-Phase Hydrogen/Deuterium Exchange; Sanjit Uppal¹; Sarah Beasley¹; Michele Scian¹; Miklos Guttman²; ¹University of Washington, Department of Chemistry, Seattle, WA; ²University of Washington, Seattle, WA
- WP 257 Evolution and Evaluation of a Modular Automation
 Platform for HDX MS; Alfonso Espada¹; Ruben Haro¹;
 Cristina Sayago¹; Jesus Castanon¹; Bruce D pascal²; Patrick
 R Griffin²; Jeffrey A. Dodge³; Michael J Chalmers⁴; ¹Lilly
 S.A., Alcobendas, Madrid; ²The Scripps Research Institute,
 Jupiter, FL; ³Eli Lilly and Company, Indianapolis, IN; ⁴Eli Lilly
 and Company, Indianapolis, IN
- WP 258 Antibody Aggregate Interface Mapping by Hydrogen Deuterium Exchange Mass Spectrometry using a Customized Automation Instrument; Qian Zhang¹; Hui Xiao¹; Shailin Patel¹; Chen Li¹; Ning Li¹; ¹Regeneron Pharmaceuticals, Tarrytown, NY
- WP 259 Optimizing Electron Transfer Dissociation Conditions for Hydrogen/Deuterium Exchange Mass Spectrometry and Its Application to the Study of Protein Conformation; Terry Zhang¹; Stephane Houel²; Jonathan Josephs¹; ¹ThermoFisher, San Jose, CA; ²Thermo Fisher Scientific, San Jose, CA
- WP 260 Comparison of Immobilized Nepenthesin II and Pepsin Cleavage Specificities in HDX-MS Conditions; Bruce D.

 Pascal¹; Venkatasubramanian Dharmarajan¹; Jie Zheng¹;

 Adrian Reich¹; Ruben Garcia-Ordonez¹; Scott Novick¹;

 Patrick R Griffin¹; ¹The Scripps Research Institute, Jupiter, FL
- WP 261 Higher Selectivity Digestion Strategies for the HX-MS
 Analysis of Large Protein Constructs; Joey Sheff¹;
 Christoph Schräder²; Linda Lee²; David C. Schriemer²;

 ¹University of Calgary, Calgary, AB, Canada; ²University of Calgary, Calgary, AB, Canada
- WP 262 An Operational Platform for Proteolytic Hydrogen-Deuterium Exchange Mass Spectrometry that Conducts Chromatographic Separations at -30oC.; Jeffrey W. Hudgens^{1, 2}; Kyle W. Anderson^{2, 3}; Ioannis Karageorgos^{2, 3}; ¹National Institute of Standards and Technology, Rockville, MD; ²Institute for Bioscience and Biotechnology Research, Rockville, MD; ³NIST, Gaithersburg, MD
- WP 263 Sparse Representation for Hydrogen Exchange
 Mass Spectrometry (HX-MS) Data by using LASSO
 Optimization; Yuqi Shi¹; Jarod V. Hart².³; David D. WEIS¹.⁴;
 ¹Department of Chemistry, University of Kansas, Lawrence,
 KS; ²Higuchi Biosciences center, University of Kansas,

- Lawrence, KS; ³Department of Mathematics, University of Kansas, Lawrence, KS; ⁴Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS
- WP 264 Characterizing the Forward- and Backward- Hydrogen/
 Deuterium Exchange of Hydroxyls Resulting from
 Residual Solvent Vapors in Electrospray Sources; H.

 Jamie Kim¹; Marina R. Mulenos¹; Tara Liyanage¹; Elyssia S
 Gallagher¹; ¹Baylor University, Waco, TX
- WP 265 Paradigm Shift of HDX-MS Data Analysis: From Centroid Values and Deuteration Levels to Isotope Envelopes and Exchange Rates; Yoshitomo Hamuro; Consultant, Lawrenceville, NJ
- WP 266 Peptide-Level HDX Analysis of Denatured Insulin is a Model Assay for Therapeutic Protein Structural Fidelity;
 Elizabeth T. Schaper Bergman¹; Henry W. Rohrs¹; Michael L. Gross¹; Washington University, Saint Louis, MO
- WP 267 Automated Hydrogen-Deuterium Exchange Analysis of Intact Proteins by Top-Down Fragmentation using Electron Transfer Dissociation; Malcolm Anderson¹; Laetitia Florence Denbigh¹; Keith Fadgen²; Michael Eggertson²; ¹Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK; ²Waters Corp, Milford, MA
- WP 268 An Empirical Method to Correct for Altered Chemical Exchange Effects in Hydrogen Exchange-Mass Spectrometry (HX-MS); Ronald T. Toth¹; Sangeeta B. Joshi²; Reza Esfandiary³; C. Russell Middaugh¹; David B. Volkin²; David Weis⁴; ¹University of Kansas, Lawrence, KS; ²University of Kansas, Lawrence, KS; altersburg, Maryland; ⁴University of Kansas, Lawrence, KS
- WP 269 **Probing Membrane Protein Conformational Dynamics using HDX-MS**; <u>Yingrong Xu</u>¹; Jill Chrencik¹; Kimberly F. Fennell¹; Laura Byrnes¹; Justin Hall¹; Xiayang Qiu¹; Graham West¹; <u>Pfizer Inc., Groton, CT</u>
- WP 270 Combined HDX ETD Workflow for Increasing Spatial Resolution in Higher Order Structure Study; <u>Ying-Qing-Yu-1</u>; Jing Fang¹; Michael Eggertson¹; Keith Fadgen¹; Weibin Chen¹; ¹Waters Corp. Milford. MA
- WP 271 Hydrogen/Deuterium Exchange Analysis Aimed at Parameter Optimization for High Resolution FT-ICR MS Instruments; Greg T. Blakney¹; Lissa Anderson¹; Yuri E Corilo¹; Peilu Liu²; Alan G. Marshall¹.²; Chad R Weisbrod¹; Christopher L Hendrickson¹.²; ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ²Florida State University, Tallahassee, FL
- WP 272 Low Temperature Hydrogen Exchange Microchip
 Capillary Electrophoresis-Mass Spectrometry; Kristina
 M. Herrera¹; J. Michael Ramsey¹; ¹UNC Chapel Hill,
 Chapel Hill. NC
- WP 273 Supercharging for Improved ECD/ETD-Based Hydrogen/
 Deuterium Exchange Mass Spectrometry; Qingyi Wang¹;
 Kristina I Håkansson¹; ¹University of Michigan Chemistry
 Department, Ann Arbor, MI
- WP 274 Mass Spectrometry Measurements of the Isotope Ratios of Low Abundant Glycated Peptides; Sergei Ilchenko¹; Kwangwon Lee²; Takhar Kasumov²; ¹Northeast Ohio Medical University, Rootstown, OH; ²Northeast Ohio Medical University, Rootstown, OH

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- WP 276 Data Directed Mass Spectrometry Imaging Real Time Decision Making during Automated Analysis of Sample Slide Batches; Emrys Jones^{1, 2}; Emmy Hoyes¹; Lukasz Migas³; Fiona Henderson⁴; Praveen Harapanahalli¹; Richard Chapman¹; Adam McMahon³; Steven Pringle¹; Zoltan Takats²; *Waters Corporation, Wilmslow, UK; *Imperial College London, London, London; *University of Manchester, Manchester, UK; *University of Manchester, Manchester, UK
- WP 277 Blind Source Separation of MALDI Spectra from Noise by Sparse Representation in a Composite of Linear Bases; <u>Luis Mancera</u>¹; Luis A. González-Jaime¹; Matthew Openshaw²; ¹Clover Bioanalytical Software; ²Shimadzu, Manchester. UK
- WP 278 Practical Considerations for Multicenter Studies:
 Software Tools for Managing Large Cohorts of MALDI
 Imaging Data; Fingal Orlando Galashan¹; Jan Hendrik
 Kobarg¹; Stefan Frehse¹; Janina Oetjen²; Rita Casadonte³;
 Delf Lachmund⁴; Klaus Steinhorst¹; Stefan Schiffler¹; Tobias
 Boskamp¹.⁴; Peter Maass⁴; Joerg Kriegsmann³.⁵; Theodore
 Alexandrov6.7; Dennis Trede¹; ¹SCiLS GmbH, Bremen,
 Bremen; ²MALDI Imaging Lab, University of Bremen,
 Germany; ³ProteoPath GmbH, Trier, Germany; ⁴Center for
 Industrial Mathematics, University of Bremen, Germany;
 [§]Center for Histology, Cytology and Molecular Diagnostic,
 Trier, Germany; §EMBL, Heidelberg, Baden-Wuerttemberg;
 [§]Skaggs School of Pharmacy, University of California San
 Diego, La Jolla, CA
- WP 279 Distilling Knowledge from Data: MS Data Analysis using ChemDistiller; Ivan Laponogov¹; Noureddin M H Sadawi¹; Dennis A Veselkov¹; Dieter Galea¹; Kirill A Veselkov¹; Imperial College London, London, UK
- WP 280 Advanced Computer Vision Based Registration of Imaging Mass Spectrometry Data in Multi-Modal Experiments; Nico Verbeeck¹; Jeffrey Spraggins^{2, 3,}
 4; Nathan Heath Patterson^{2, 3}; Junhai Yang^{2, 3}; Etienne Waelkens^{5, 6}; Richard M. Caprioli^{2, 3, 4, 7, 8}; Raf Van de Plas^{1, 2, 3}; **IDefft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; **2Mass Spectrometry Research Center (MSRC), Vanderbilt University, Nashville, TN; **3Department of Biochemistry, Vanderbilt University, Nashville, TN; **Department of Chemistry, Vanderbilt University, Nashville, TN; **Department of Cellular and Molecular Medicine, KU Leuven, Leuven, Belgium; **Sybioma, KU Leuven, Leuven, Belgium; **Sybioma, KU Leuven, Leuven, Belgium; **Department of Pharmacology, Vanderbilt University, Nashville, TN; **Department of Medicine, Vanderbilt University, Nashville, TN; **D

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WP 281 Rapid 500 nm-Resolution Imaging of the Cellular Lipidome in Model Neurons by TOF-SIMS Parallel Imaging MS/MS; Gregory L Fisher¹; Rachelle Balez²; Anne L Bruinen³; Ron MA Heeren³; Lezanne Ooi²; ¹Physical Electronics, Chanhassen, Minnesota; ²School of Biological Sciences, The University of Wollongong, Wollongong, Australia; ³Maastricht Multi-Modal Molecular Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands

- WP 282 Improved Spatial Resolution IR-MALDESI Mass Spectrometry Imaging; Mark Bokhart¹; Jeffrey Manni²; Måns Ekelöf¹; Milad Nazari¹; David C. Muddiman¹; ¹North Carolina State University, Raleigh, NC; ²JGM Associates Inc., Burlington, MA
- WP 283 Pushing the Limits of DESI-FTICR MS Imaging using Advanced Data Acquisition and Processing Approaches; Pieter C. Kooijman¹; Anton N. Kozhinov²; Konstantin O. Nagornov²; David P.A. Kilgour³; Yury O. Tsybin²; Ron M.A. Heeren¹; Shane R. Ellis¹; ¹Maastricht Multi-Modal Molecular Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands; ²Spectroswiss Sàrl, Lausanne, Switzerland; ³Nottingham Trent University, Nottingham, UK
- WP 284 A Pneumatically Assisted Nanospray Desorption Ionization (nano-DESI) Source for Enhanced Metabolite Imaging from Tissue; Kyle D Duncan¹; Hilde-Marléne Bergman¹; Ingela Lanekoff¹; ¹Uppsala University, Uppsala , Sweden
- WP 285 High-Resolution Tissue Imaging Using Subatmospheric and Atmospheric MALDI sources; Eugene Moskovets¹; Shelley N. Jackson²; Ludovic Muller²; Damon Barbacci³; Vladimir Doroshenko¹; J. Albert Schultz³; Amina S. Woods²;

 ¹MassTech Inc, Columbia, MD; ²NIDA-IRP, NIH, Baltimore, MD; ³Ionwerks, Inc., Houston, TX
- WP 286 TOF-SIMS and MS/MS Parallel Imaging Instrumentation for Sub-Micron Molecular Characterization; GREGORY L FISHER¹; Paul E. Larson¹; John S. Hammond¹; Scott Bryan¹; 'Physical Electronics, Chanhassen, MN
- WP 287 Development of an Imaging FT-ICR-MS with SIMS, FIB-SEM, and Post-Ionization Capabilities for Biological Applications; Matthew Brantley¹; Ian G. M. Anthony¹; Raul A. Villacob¹; Carter Lantz¹; Adam R. Floyd¹; Christina A. Gaw¹; Scott Koziol¹; Touradj Solouki¹; **IBaylor University, Waco, TX**
- WP 288 Development of an Optical System for Uniform Laser Irradiation in Stigmatic Imaging Mass Spectrometry;

 Yuma Tsurumoto¹; Hisanao Hazama¹; Kunio Awazu¹.².

 ³; ¹Graduate School of Engineering, Osaka University,

 Suita, Japan; ²Graduate School of Frontier Biosciences,

 Osaka University, Suita, Japan; ³Global Center for Medical

 Engineering and Informatics, Osaka University, Suita, Japan
- WP 289 A Monte-Carlo Approach To Automated Ion Trajectory
 Calculations for Optimization of an Imaging FT-ICR MS
 with Post-Ionization Capabilities; Raul Villacob¹; Matthew
 R. Brantley¹; Ian G.M. Anthony¹; Touradj Solouki¹; ¹Baylor
 University, Waco, TX
- WP 290 Simultaneous Imaging of Small Metabolites,
 Lipids and Proteins from Biological Tissues under
 Ambient Conditions Using Laser Electrospray Mass
 Spectrometry; Fengjian Shi¹; Rachel J. Parise¹; Evan M.
 Lutton²; Servio H. Ramirez²; Robert J. Levis¹; ¹Department
 of Chemistry, Temple University, Philadelphia, PA; ²Lewis
 Katz School of Medicine, Temple University, Philadelphia, PA
- WP 291 Multimodal Chemical and Functional Imaging of Nanoscale Transformations in Ferroelectric Thin Films;

 Anton levlev¹; Chance C. Brown²; Petro Maksymovych²;

 Sergei V. Kalinin²; Olga S. Ovchinnikova²; ¹Oak Ridge

 National Lab, Oak Ridge, TN; ²Oak Ridge National

 Laboratory, Oak Ridge, TN

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1 University of Camerino - Unicam, Camerino (MC), Italy;
2 Maastricht Multi-Modal Molecular Imaging (M4I) Institute,



- WP 293 Improvements in Mass Spectrometry Imaging for the Molecular Analysis of FFPE Tissue Sections;
 Alice Ly¹; Rita Casadonte²; Mark Kriegsmann³; Joerg Kriegsmann²; Michael Becker¹.⁴; Juergen Tressel¹; Soeren-Oliver Deininger¹; ¹Bruker Daltonics, Bremen, Germany; ²ProteoPath GmbH, Trier, Germany; ³University of Heidelberg, Heidelberg, Germany; ⁴Boehringer Ingelheim GmbH, Biberach, Germany
- WP 294 Assessing Imaging Compatibility and Performance of Various Tissue Fixation Strategies using MALDI FTICR MS; Marissa Jones¹; Jeffrey M Spraggins².³,⁴; Nathan Heath Patterson².⁴; William Perry².³; Richard M. Caprioli².³,⁴,⁵.⁰; ¹Mass Spectrometry Research Center, Vanderbilt University, Nasvhille, TN; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ³Department of Chemistry, Vanderbilt University, Nashville, TN; ⁴Department of Biochemistry, Vanderbilt University, Nasvhille, TN; ⁵Department of Pharmacology, Vanderbilt University, Nashville, TN; °Department of Medicine, Vanderbilt University, Nashville, TN
- WP 295 Phosphopeptide enhancement in MALDI IMS
 Experiments; Hyojik Yang^{1, 2}; Jeremy L. Norris^{1, 2, 3}; Kevin
 L. Schey^{1, 2}; Jeffrey Spraggins^{1, 2, 3}; Richard M. Caprioli^{1, 2, 3, 4}; ¹Mass Spectrometry Research Center, Vanderbilt
 University, Nashville, TN; ²Department of Biochemistry,
 Vanderbilt University, Nashville, TN; ³Department of
 Chemistry, Vanderbilt University, Nashville, TN; ⁴Department
 of Pharmacology and Medicine, Vanderbilt University,
 Nashville TN
- WP 296 Modified TiO2 Monolith for Selective Imprint Imaging of Brain Tissue by Laser Desorption/Ionization-Mass Spectrometry; Qian Wu¹; Stanislav S. Rubakhin¹; Jonathan V. Sweedler¹; ¹Department of Chemistry and the Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, IL
- WP 297 Understanding the Laser Desorption Ionization Mechanisms of Lipids from Tissue Sections After Matrix Deposition by Sublimation; Nicolas Elie¹; Sebastiaan Van Nuffel¹; Alain Brunelle¹; Pierre Chaurand¹.².³; ¹CNRS, Institut de Chimie des Substances Naturelles, Gif sur Yvette, France; ²University of Montreal, Montreal, QC, Canada; ³Université Paris-Saclay, Saint-Aubin, France
- WP 298 Insect Neuropeptide MALDI Imaging: Simultaneous Analysis and Localization with Spatial Resolution at Micrometer Scale; Alice Ly¹; Lapo Ragionieri²; Sander Liessem²; Michael Becker³.⁴; Soeren-Oliver Deininger³; Reinhard Predel²; ¹Bruker Daltonik GmbH, Bremen, Germany; ²University of Cologne, Cologne, Germany; ³Bruker Daltonics, Bremen, Germany; ⁴Boehringer Ingelheim GmbH, Biberach, Germany
- WP 299 Visualization of Glucosinolate Distribution in the Inner Structure of the Leaf by Mass Spectrometry Imaging;

 Tomomi Ichinose¹; Fusa Murayama¹; Yoshinori Fujimura¹; Yuzo Yamazaki²; Hiroyuki Wariishi¹; Akiko Maruyama¹; Daisuke Miura¹; ¹Kyushu University, Fukuoka, Japan; ²Shimadzu, Kyoto, Japan
- WP 300 Matrix-Enhanced SIMS Depth Profiling to Probe the Matrix Extraction Efficiency and Distribution of Drugs in Brain, Liver, and Intestinal Tissue; Joel Keelor¹; Lennart Huizing¹; Arnoud Prop¹; Anne L Bruinen¹; Shane R. Ellis¹; Rob Vreeken^{1, 2}; Ron MA Heeren¹; ** Maastricht Multi-Modal Molecular Imaging (M4I) Institute, Maastricht University, Maastricht, Netherlands; ** Janssen R&D, Beerse, Belgium
- WP 301 Surface Layer-MALDI MS-Imaging of Polymer Film Defects and Segregation; Kevin J. Endres¹; Jacob A. Hill¹; Mark D. Foster¹; Chrys Wesdemiotis¹; ¹University of Akron, Akron, OH

- WP 302 Sample Preparation of the Corn Seed Tissues to Prevent Analyte Relocations for MS imaging; Sohee Yoon¹; Shin-Hye Kim¹; Tae Geol Lee¹; Jeongkwon Kim²; ¹Korea Research Institute of Standards and Science, Daejeon; ²Chung Nam National University, Daejeon, South Korea
- WP 303 Global Lipidomic Changes Associated with MALDI Matrices using MALDI FTICR Imaging Mass Spectrometry; William J. Perry^{1, 2}; Jeffrey M. Spraggins^{1, 2, 3}; Raf Van de Plas^{1, 3, 4}; Richard M. Caprioli^{1, 2, 3, 5, 6}; ¹Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ²Department of Chemistry, Vanderbilt University, Nashville, TN; ³Department of Biochemistry, Vanderbilt University, Nasvhille, TN; ⁴Delft Center for Systems and Control, Delft University of Technology, Delft, Netherlands; ⁵Department of Pharmacology, Vanderbilt University, Nashville, TN; ⁶Department of Medicine, Vanderbilt University, Nashville, TN
- WP 304 Establishment of Convenient Sample Preparation
 Method with High Sensitivity and Excellent
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 Endogenous Primary Metabolites; Tomomi Ichinose¹;
 Fusa Murayama¹; Takanori Ishii¹; Chihiro Kawano¹;
 Ayaka Murayama¹; Akiko Miki¹; Yoshinori Fujimura¹; Yuzo
 Yamazaki²; Hiroyuki Wariishi¹; Daisuke Miura¹; ¹Kyushu
 University, Fukuoka, Japan; ²Shimadzu Corporation, Kyoto,
 Japan
- WP 305 Ketone Based Matrices for Imaging Proteins;

 Junhai Yang^{1, 2}; Richard M. Caprioli^{1, 3}; ¹Department of

 Biochemistry, Vanderbilt University, Nashville, TN; ²The

 Mass Spectrometry Research Center, Vanderbilt University,

 Nashville, TN; ³Chemistry, Pharmacology and Medicine, the

 Mass Spectrometry Research Center, Vanderbilt University,

 Nashville. TN
- WP 306 Caffeic Acid as a New Matrix for Enhanced Tissue Imaging of High Molecular Weight Proteins by MALDI Mass Spectrometry; Xiaodong Wang¹; Huixin He¹; Liang Qin¹; Lulu Chen¹; Yaqin Liu¹; ¹Centre for Imaging & Systems Biology, College of Life and Environmental Sciences, Minzu University of China, Beijing, China

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- WP 307 Multicentric Clinical Tool to Share and Interprete
 Volumetric Data in the Cloud; Fabien Pamelard¹; Gael
 Picard de Muller¹; Raphael Legouffe¹; Guillaume Hochart¹;
 David Bonnel¹; Jonathan Stauber¹; ¹Imabiotech, Loos,
 France
- WP 308 **3D ToF-SIMS Imaging of Cells**; <u>Daniel J. Graham</u>¹; Lara J. Gamble¹; ¹*University of Washington Department of Bioengineering, Seattle, WA*
- WP 309 Uranium Bearing Particle Identification using a Fully Convolutional Neural Network and Watershed Segmentation; Jay Tarolli; Pacific Northwest National Laboratory, Richland, WA
- WP 310 Novel Data Analysis Approaches for Mass Spectrometry Imaging Multicenter Studies; Stefan Frehse¹; Jan Hendrik Kobarg¹; Vitaly Kovalev²; Fingal Orlando Galashan¹; Stefan Schiffler¹; Klaus Steinhorst¹; Tobias Boskamp^{1, 3}; Andrew Palmer²; Rohan A. Thakur⁴; Theodore Alexandrov^{1, 2, 5}; Dennis Trede^{1, 4}; ¹SCiLS GmbH, Bremen; ²EMBL, Heidelberg, Heidelberg; ³University of Bremen, Bremen, Germany; ⁴Bruker Daltonik GmbH, Bremen, Germany; ⁵University of California, San Diego, CA
- WP 311 Real-Time Viewing, Classification and 3D Reconstruction for Imaging Mass Spectrometry; Richard Chapman¹; Emrys Jones¹; Csaba Hajdu²; Emmy Hoyes¹; Praveen Harapanahalli¹; Emmanuelle Claude¹; Robert Tonge¹; Steven Pringle¹; ¹Waters Corporation, Wilmslow, UK; ²Waters Research Center, Budapest



WP 312 Mass Spectrometry Image Exploration and Annotation with MSiReader; Kenneth Garrard¹; Milad Nazari¹; Mark Bokhart¹; Måns Ekelöf¹; Sitora Khodjaniyazova¹; David C. Muddiman¹; **North Carolina State University, Raleigh, NC

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- WP 313 Advances in Targeted Analysis of Centroided DIA/ SWATH with Spectronaut. Equal Performance for Up to Ten-Fold Lower Storage Demand; Oliver M. Bernhardt¹; Roland Bruderer¹; Jan Muntel¹; Tejas Gandhi¹; Lukas Reiter¹; 'Biognosys, Schlieren, Zurich
- WP 314 Specter: Deconvolution of Data Independent Acquisition Mass Spectrometry Data by Linear Regression of Acquired Spectra onto Libraries; Ryan Peckner¹; Samuel A Myers¹; Jarrett Egertson²; Richard S Johnson²; Michael J MacCoss²; Jacob D Jaffe¹; ¹Broad Institute, Cambridge, Massachusetts; ²University of Washington, Seattle, WA
- WP 315 Philosopher: A Data Processing Toolkit for Shotgun Proteomics; Felipe da Veiga Leprevost¹; Avinash Kumar Shanmugam¹; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI
- WP 316 Statistical Analysis of UVPD Fragmentation in the Middle-down Size Regime: A Data-Mining Approach;

 Jake Rosenberg¹; Jennifer S Brodbelt²; ¹University of Texas at Austin, Austin, TX; ²University of Texas at Austin, Austin, TX
- WP 317 Discriminating Isobaric Phosphopeptides using Data-Independent Acquisition Mass Spectrometry; Zuofei Yuan¹; Simone Sidoli¹; Rina Fujiwara¹; Katarzyna Kulej¹·²; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²The Children's Hospital of Philadelphia, Philadelphia, PA
- WP 318 An Ion Library-Free, Data Independent Acquisition
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 Protocol; William Judson Hervey, IV¹; Gautam Saxena²;
 Krystine Pimentel³; Gary J. Vora⁴; ¹Center for Bio/Molecular
 Science & Engineering, Naval Research Laboratory,
 Washington, DC; ²DeepDIA, Bethesda, MD; ³Department of
 Computer and Electrical Engineering, Florida International
 University, Miami, FL; ⁴Center for Bio/Molecular Science &
 Engineering, Naval Research Laboratory, Washington, DC
- WP 319 Quantifying Phosphopeptide Positional Isomers in DIA Experiments; Brian C. Searle^{1, 2}; Michael J. MacCoss¹; Judit Villén¹; ¹University of Washington, Department of Genome Sciences, Seattle, WA; ²Proteome Software, Portland, OR
- WP 320 TargetedMSQC: An R Package for Peak Quality
 Assessment and Interference Detection in Targeted
 Mass Spectrometry Proteomics Datasets; Shadi Toghi
 Eshghi¹; Kristin Wildsmith¹; Paul Auger¹; W. Rodney
 Mathews¹; ¹Genentech, South San Francisco, CA
- WP 321 Recent Advances in Skyline: Further Improvements in Small Molecule Targets and Ion Mobility; Brian Pratt¹; Will Thompson²; Erin S Baker³; Michael J MacCoss¹; Brendan MacLean¹; ¹University of Washington, Seattle, WA; ²Duke University, Durham, North Carolina; ³PNNL, Richland,
- WP 322 Protecting Proteomic Data Processing on the TDPortal with the Open Science Cyber Risk Profile; Richard Leduc1; Ryan T. Fellers2; Joseph B. Greer2; Jackie Milhans2; Von Welch3; Paul Thomas2; Neil L Kelleher2; 1Northwestern University, Bloomington, Indiana; 2Northwestern University, Evanston, IL; 3Indiana University, Bloomington, IN

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- WP 323 ADAP-GC: A Software Package for Preprocessing Gas Chromatography-Mass Spectrometry Metabolomics Data; Aleksandr Smirnov¹; Owen Myers²; Wei Jia³; Douglas I. Walker⁴; Shuzhao Li⁴; Xiuxia Du¹; ¹University of North Carolina at Charlotte, Charlotte, NC; ²University of North Carolinat at Charlotte, Charlotte, NC; ³University of Hawaii, Honolulu, HI; ⁴Emory University, Atlanta, GA
- WP 324 Software to Facilitate Automated Validation of Imaging Mass Spectrometry Annotations of Metabolites with Follow-Up LC-MS/MS Data; Ivan Protsyuk¹; Prasad Phapale¹; Andrew Palmer¹; Luca Rappez¹; Theodore Alexandrov¹.²; ¹EMBL, Heidelberg, Baden-Wuerttemberg; ²Skaggs School of Pharmacy, University of California San Diego, La Jolla, CA
- WP 325 Metandem: A Novel Online Software Platform for Mass Spectrometry-Based Isobaric Labeling Metabolomics; Ling Hao¹; Pingli Wei¹; Fabao Liu²; Jillian Johnson¹; Amanda Buchberger¹; W. John Kao³; Wei Xu²; Lingjun Ll¹; ¹University of Wisconsin-Madison, Madison, WI; ²McArdle Laboratory for Cancer Research, UW-Madison, WI; ³President's Office, the University of Hong Kong, Hong Kong, China
- WP 326 DeltaMS: A Convenient Tool to Track Isotopologues in GC/LC-MS Data by Stable Isotope Probing (SIP); Tim

 Baumeister¹; Nico Ueberschaar²; Wolfgang Schmidt-Heck³; Jan-Frieder Mohr²; Michael Deicke²; Thomas Wichard²; Reinhard Guthke³; Georg Pohnert¹,²; ¹Max Planck Institute for Chemical Ecology, Max Planck Fellow Group Plankton Community Interaction, Jena, Germany; ³Friedrich Schiller University Jena, Jena, Germany; ³Leibniz Institute for Natural Product Research and Infection Biology Hans Knoell Institute (HKI), Department of Systems Biology and Bioinformatics, Jena, Germany
- WP 327 Metabolite Annotations for Spectra Not Available in Spectral Library Viain Silicomolecular Networking and Raw Data Spectral Matching; Ricardo Silva¹; Alexandria Ongjoco²; Pieter C. Dorrestein³.⁴; ¹University of California, San Diego, CA; ²Skaggs School of Pharmacy, University of California San Diego, La Jolla, CA; ³Skaggs School of Pharmacy, University of California San Diego, San Diego, CA; ⁴Department of Pediatrics, University of California San Diego, San Diego, CA
- WP 328 New Algorithms for Reducing the Rate of False Positive and False Negative Compounds Detected from Mass Spectrometry Metabolomics Data; Owen Myers¹; Susan Sumner²; Shuzhao Li³; Stephen Barnes⁴; Xiuxia Du¹;

 1 University of North Carolina at Charlotte, Charlotte, NC;
 2 University of North Carolina at Chapel Hill, Chapel Hill, NC;
 3 Emory University, Atlanta, Georgia; 4 University of Alabama at Birmingham, Birmingham, AL
- WP 329 MetabVision: A Shiny Based Web Framework for Quality Control (QC), Data Normalization and Visualization in Untargeted Metabolomics; Tanu Soni¹; Matthew Hansen²; Charles Evans^{1,3}; Sarah Tishkoff²; Charles Burant^{1,3}; Thekkelnaycke Rajendiran^{1,4}; ¹Michigan Regional Comprehensive Metabolomics Resource Core, University of Michigan, Ann Arbor, MI; ²Departments of Genetics and Biology, University of Pennsylvania, Philadelpha, PA; ³Department of Internal Medicine, University of Michigan, Ann Arbor, MI; ⁴Department of Pathology, University of Michigan, Ann Arbor, MI
- WP 330 Automatic Pipeline Package for Identification and Normalization of LCMS-Based Untargeted Metabolomics; Chuan-Yih Yu¹; Johannes Fahrmann¹; Eunice Murage¹; Jennifer Dennison¹; Samir Hanash¹; ¹MD Anderson Cancer Center, Houston, TX
- WP 331 Identifying Biologically Important Metabolites by Mass Spectrometry-Based Cheminformatics; Zijuan Lai¹; Hiroshi Tsugawa²; Gert Wohlgemuth¹; Masanori Arita²;



- Oliver Fiehn¹; ¹UC Davis, Davis, CA; ²RIKEN Center for Sustainable Resource Science, Yokohama, Kanagawa
- WP 332 A Web Service Framework for Interactive Browsing of Metabolomics Data; Yaroslav Lyutvinskiy¹; Jeramie Watrous²; Mohit Jain²; Roland Nilsson¹; ¹Karolinska institute, CMM, Stockholm, Sweden; ²UCSD, La Jolla, CA
- WP 333 Galaxy-Centered Lab Workflows to Organize
 Metabolomic Analyses; Arthur C. Eschenlauer^{1,2,3}; Mark
 Esler^{1,3}; Jerry D. Cohen^{1,3}; Timothy J. Griffin^{2,4}; Adrian D.
 Hegeman^{1,3}; **Imit Microbial and Plant Genomics Institute and
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 St. Paul, MN; **Dept. of Biochemistry, Molecular Biology,
 and Biophysics, University of Minnesota, Minneapolis,
 MN; **University of Minnesota, St. Paul, MN; **University of
 Minnesota, Minneapolis, MN
- WP 334 New and Improved Functionality of a Public Resource, MyCompoundID, for Chemical Isotope Labeling LC-MS Metabolomics; Hao Li¹; Shuang Zhao¹; Xian Luo¹; Taibo Luo¹; Guohui Lin¹; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada
- WP 335 Artificial Neural Networks based Visual Data Mining for Clinical and Metabolomic Data; Kasun Amarasinghe¹;
 Urszula Osinska Warncke²; Naren Gajenthra Kumar¹;
 Daniel Contaifer¹; Milos Manic¹; Dayanjan S Wijesinghe¹;

 1 Virginia Commonwealth University, Richmond, VA; 2 Virginia Commonwealth University, Richmond, VA

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- WP 336 Rapid Identification of Regulated Organic Chemical Compounds in Toys Using Ambient Ionization and A Miniature Mass Spectrometry System; Xiangyu Guo¹; Qiang Ma¹; Zheng Ouyang².³; ¹Chinese Academy of Inspection and Quarantine, Beijing, China; ²State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instrument, Tsinghua University, Beijing, Afghanistan; ³Weldon School of Biomedical Engineering and Department of Chemistry, Purdue University, West Lafayette, IN
- WP 337 Guiding lons with a Quadrupole Operated at Elevated Pressure; Wen-Ping Peng¹; Zhuoer Xie²; Adam Hollerbach²; Dalton T Snyder²; Graham Cooks²; ¹National Dong Hwa University, Shoufeng, Taiwan; ²Purdue University, West Lafayette, IN
- WP 338 Preclinical Pharmacokinetics Study Using Miniature
 MS System and Culex Automatic Blood Sampler; Fan
 Pu¹; Wenpeng Zhang²; Yong Liu³; Kevin Bateman⁴; Roy
 Helmy³; Zheng Ouyang¹.².⁵; ¹Department of Chemistry,
 Purdue University, West Lafayette, IN; ²Weldon School
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 Lafayette, Indiana; ³Merck Research Laboratories, Rahway,
 NJ; ⁴Pharmacokinetics, Pharmacodynamics and Drug
 Metabolism, Merck Research Laboratories, Merck & Co.,
 Inc., West Point, PA; ⁵Department of Precision Instrument,
 Tsinghua University, Beijing, China
- WP 339 Comparison of Canine Sniffing Capability with Portable Mass Spectrometry; Stamatios Giannoukos¹; Boris Brkić¹; Stephen Taylor¹; ¹Department of Electrical Engineering and Electronics University Of Liverpool, Liverpool, UK
- WP 340 Use of a Hexapole Ion Guide in a Miniature, Low Power LC-MS Interface: The Power vs. Performance Tradeoff; Adrian Southard¹; Stephanie A Getty²; Jerome P Ferrance³; Jamie E Elsila²; Manuel A Balvin²; Carl A Kotecki²;

 1 Universities Space Research Association, Columbia, MD;
 2NASA Goddard Space Flight Center, Greenbelt, MD; 3J2F Engineering, Charlottesville, VA
- WP 341 Optimization of Multiple Frequency Waveforms for Ion Isolation and Ion Ejection From a Linear Ion Trap MS for Planetory Exploration; Dalton Synder¹; Desmond A. Kaplan²; Ryan M Danell³; Veronica T. Pinnick⁴; Friso

- van Amerom⁵; Andrej Grubisic⁴; Paul R Mahaffy⁴; William B. Brinkerhoff⁴; Graham Cooks¹; ¹Purdue University, West lafayette, Indiana; ²KapScience LLC, Tewksbury, MA; ³Danell Consulting, Greenville, NC; ⁴NASA GSFC, Greenbelt, MD; ⁵Mini-Mass Consulting, Inc., Hyattsville, MD
- WP 342 A Miniature Mass Spectrometer with a Miniature Ion Funnel; Yanbing Zhai¹; Xiaohua Zhang²; Wei Xu¹; ¹Beijing Institute of Technology, Haidian District, Beijing; ²Anyeep Instrumentation Company, Suzhou, China
- WP 343 Optimization of the PerkinElmer Torion T-9 Portable GC/ MS for Common Field Analyses; Joshua Wilhide¹; lan W Shaffer¹; Margaret E LaCourse¹; William R LaCourse¹; ¹University of Maryland Baltimore County, Baltimore, MD
- WP 344 Characterization of a Highly Compact Linear Ion Trap Mass Spectrometer (LITMS); Friso H.W. Van Amerom¹; Ryan M Danell²; Xiang Li³; Andrej Grubisic⁴; Veronica T. Pinnick⁵; Ricardo D. Arevalo⁵; Stephanie A. Getty⁵; William B. Brinkerhoff⁵; Paul R Mahaffy⁵; ¹Mini-Mass Consulting, Inc, Hyattsville, MD; ²Danell Consulting, Greenville, NC; ³University of Maryland Baltimore County, Baltimore, MD; ⁴University of Maryland, College Park, MD; ⁵NASA GSFC, Greenbelt, MD
- WP 345 Development of a Portable 13C Isotope Ratio
 Measurement Technique with Quadrupole Mass
 Spectrometry; David McIntosh¹; Stomatis Giannokous¹;
 Brian Thomas²; Tom Fildes³; Lynn Smith⁴; Stephen Taylor¹;
 ¹University of Liverpool, Liverpool, Merseyside; ²University
 of Liverpool, Glenn Heights, TX; ³University of Liverpool,
 Liverpool, UK; ⁴Norton Priory, Runcorn, UK

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 Richard D. Smith¹; Liulin Deng¹; Ahmed M Hamid¹; Ian K
 Webb¹; Sandilya V.B. Garimella¹; Roza Wojcik¹; Xueyun
 Y Zheng¹; Christopher D Chouinard¹; Spencer A Prost¹;
 Gordon A Anderson¹; Erin S Baker¹; Yehia M Ibrahim¹;
 ¹Pacific Northwest National Laboratory, Richland, WA
- WP 347 Electro-kinetic Assisted Electrospray Ionization for Enhanced Complex Sample Analysis; Muyi He¹; Zezhen Zhang¹; Pan Luo¹; Jie Hong¹; Wenjing Zhang¹; Jianli Liu¹; Xiaoli Zhang¹; Wei Xu¹; ¹Beijing Institute of Technology, Beijing, Beijing
- WP 348 Determination of Unbound Urinary Amino Acids Incorporated with Creatinine Normalization by LC-MS/MS Method with CLAM-2000 Online Sample Pre-treatment; Zhe Sun¹; Jie Xing¹; Irene Agatha²; Daisuke Kawakami³; Zhaoqi Zhan¹; ¹Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd., Singapore, Singapore; ²School of Physical and Mathematical Science, Nanyang Technical University, Singapore, Singapore; ³Clinical & Biotechnology Business Unit, Shimadzu Corporation, Kyoto, Japan
- WP 349 Compression Ratio Ion Mobility Programming (CRIMP) in Structures for Lossless Ion Manipulations (SLIM);

 Sandilya Garimella¹; Yehia M Ibrahim¹; Ahmed M Hamid¹;

 Liulin Deng¹; Ian K Webb¹; Erin S Baker¹; Richard D. Smith¹;

 1Pacific Northwest National Laboratory, Richland, WA
- WP 350 Chaotic Motion of Single Ions in a Toroidal Ion Trap Mass Analyzer; Ailin Li¹; Jessica M. Higgs¹; Daniel E. Austin¹; ¹Brigham Young University, Provo, UT
- WP 351 A Computational Study to Optimize Transfer and Soft-Landing of ESI Particles at Low Pressure on Nano-Optomechanical Sensors; <u>Diamantis Kounadis</u>¹; Alexander Lekkas¹; Loukas Mavrikas¹; Athanasios Zacharos¹; Dimitris Papanastasiou²; Ioannis Nikolos³; Oscar Malvar⁴; Monsterrat Calleja⁴; Javier Tamayo⁴; ¹Fasmatech Science & Technology, Athens, Greece; ²Fasmatech, Athens,

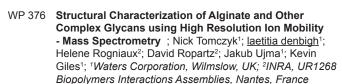
- Attiki; ³School of Production Engineering & Management, Technical University of Crete, Crete, Greece; ⁴Institute of Microelectronics of Madrid, Tres Cantos, Spain
- WP 352 Development of a Compact Microwave Driven ICP
 Atom Source for Hydrogen Attachment/Abstraction
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 Shimabukuro¹; Hidenori Takahashi²; Shinichi Iwamoto²;
 Koichi Tanaka²; Motoi Wada¹; ¹Doshisha University,
 Kvotanabe. Japan: ²Shimadzu Corporation. Kvoto
- WP 353 A Novel Platform of On-line Sample Pre-treatment and LC/MS/MS Analysis for Screening and Quantitation of Illicit Drugs in Urine; Shao Hua Chia¹; Zhi Wei Edwin Ting¹; Daisuke Kawakami²; Jie Xing¹; Zhaoqi Zhan¹; ¹Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore; ²Shimadzu Corporation, Kyoto, Japan
- WP 354 Gas Assisted Ion Ejection (GAIE)
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 Chinese Academy of Sciences, Beijing, China
- WP 355 Flavors, Odors, and Contaminants in Alcoholic Beverages using Vacuum Assisted Sorbent Extraction (VASE) and GC/MS Analysis; Victoria Noad¹; Daniel B. Cardin¹; ¹Entech Instruments, Simi Valley, CA
- WP 356 Importance of Metal Oxide Dissociation in the Liquid Sampling-Atmospheric Pressure Glow Discharge / Orbitrap System for Isotope Ratio Measurements;

 <u>Edward Hoegg</u>¹; Kenneth Marcus¹; ¹Clemson University, Clemson. SC
- WP 357 A "Brick Ion Trap Mass Spectrometer" Driven by a Frequency Scanning Technique; Ting Jiang¹; Tang Yang¹; Hongjia Zhang²; Yanbing Zhai¹; Wei Xu¹; Dayu Li²; Wei Xu¹; ¹Beijing Institute of Technology, Haidian District, Beijing; ²Northeastern University, Shengyang, China
- WP 358 High-Sensitivity and Simultaneous Analysis of Psychoactive Drugs using LC-MS/MS with Full-Automated Pretreatment System; Daisuke Kawakami¹; Toshikazu Minohata¹; Sihoko Nakano²; Noriaki Shima²; Akihiro Miki²; Munehiro Katagi²; ¹Shimadzu Corporation, Kyoto, Japan; ²Osaka Prefectural Police, Osaka, Japan
- WP 359 New Digital Mass Scanning Techniques without Dipolar Auxiliary Waveforms; Katherine G. E. Donahoe¹; Ashley Marie Moon¹; Zachary Philip Gotlib¹; Nathan Michael Hoffman¹; Peter T. A. Reilly²; ¹Washington State University, Pullman, WA; ²Washington State University, Pullman, WA
- WP 360 Supercritical Fluid Chromatography Coupled to Electron Ionization Mass Spectrometry: Development of a New System; Francesca Rigano¹; Luigi Mondello¹.².³; ¹Chromaleont s.r.l., Messina, Italy; ²Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, Messina, Italy; ³Unit of Food Science and Nutrition, Department of Medicine, University Campus Bio-Medico of Rome, Roma, Italy
- WP 361 Rapid FAIMS Inside the Mass Spectrometry
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 Entwistle²; Roch Andrzejewski²; Anisha Harris²; Roger
 Giles²; 'Wichita State University, Wichita, KS; 'Shimadzu
 Research Laboratory Europe, Manchester, UK
- WP 362 On-line Atomic Force Microscope Tip-Enhanced Laser Ablation Mass Spectrometry; Md Amir Hossen¹; Bijay Banstola¹; Fan Cao¹; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA
- WP 363 Development of Simultaneous, Quantitative Elemental and Molecular Chemical Imaging Via Optical and Mass Spectrometries; Jake T. Shelley¹; Sunil Badal¹; Montwaun D. Young¹; Brian T. Molnar¹; Courtney L. Walton¹; Garett M. MacLean¹; ¹Department of Chemistry and Chemical Biology, Rensselaer Polytechnic Institute, Troy, NY

- WP 364 How Far can we Challenge the Fundamentals? A Compact, Polygonal Collision Cell; Felician Muntean¹; Stephen Zanon¹; ¹Bruker Daltonics, Billerica, MA
- WP 365 A Single Stage Dual Ion Funnel Device for the Transmission of a Full Mass Range of Ions; Benjamin E. Draper¹; Staci N. Anthony¹; Martin F. Jarrold¹; ¹Indiana University, Bloomington, IN
- WP 366 Electrospray Ionization Zoom Time-of-Flight Mass Spectrometry; Christopher Brais¹; Jonas Metternich²; Steven Ray¹; ¹University at Buffalo, Buffalo, NY; ²University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany

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- WP 367 Improved Separation and Detection of Exogenous and Endogenous Isomeric Steroids Using Ion Mobility-Mass Spectrometry; Allison J Levy¹; Christopher D Chouinard¹; Robin HJ Kemperman¹; Nicholas R Oranzi¹; Richard A Yost¹; ¹Chemistry Department, University of Florida, Gainesville, FL
- WP 368 Screening of Human Fetal Hippocampus Gangliosides by Ion Mobility Mass Spectrometry; Mirela Sarbu¹.²; Željka Vukelić³; David E Clemmer⁴; Alina D Zamfir¹.²; ¹National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania; ²"Aurel Vlaicu" University of Arad, Arad, Romania; ³Department of Chemistry and Biochemistry, University of Zagreb Medical School, Zagreb, Croatia; ⁴Indiana University, Bloomington, IN
- WP 369 Separation of Isomeric Sphingosines using Trapped Ion Mobility QTOF-MS; Matt Willetts¹; Dirk Wunderlich²; Verena Tellstroem²; ¹Bruker Daltonics, Billerica, MA; ²Bruker Daltonik GmbH, Bremen, Germany
- WP 370 Improved Metabolomics Analysis using Isotopic Ratio Outlier Analysis (IROA) with Ion Mobility-Mass Spectrometry; Robin H.J. Kemperman¹; Chris W.W. Beecher^{1, 2}; Richard A. Yost¹; ¹University of Florida, Gainesville, FL; ²IROA Technologies, Gainesville, FL
- WP 371 Improved Sensitivity for Shotgun Proteomics on a Novel Trapped Ion Mobility Spectrometry (TIMS) Quadrupole Time-of-Flight (QTOF) Instrument; Scarlet Beck¹; Heiner Koch¹; Florian Meier¹; Markus Lubeck²; Stephanie Kaspar-Schoenefeld²; Niels Goedecke²; Oliver Raether²; Juergen Cox¹; Matthias Mann¹; ¹Max Planck Institute of Biochemistry, Martinsried, Germany; ²Bruker Daltonik GmbH, Bremen, Germany
- WP 372 Optimizing Sample Introduction for Quantitation of 25-Hydroxyvitamin D in Human Serum using Liquid Chromatography/lon Mobility/Mass Spectrometry; Jiajun Lei¹; Nicholas R. Oranzi¹; Richard A. Yost¹; ¹University of Florida, Gainesville, FL
- WP 373 Control of Gas-Phase Conformation of 25-Hydroxyvitamin D3 and 3-epi-25hydroxyvitamin D3 for Simultaneous Quantitation using Ion Mobility Mass Spectrometry; Nicholas Oranzi¹; Christopher D Chouinard¹; Richard A. Yost¹; 'University of Florida, Gainesville, FL
- WP 374 High Resolution Trapped Ion Mobility Mass Spectrometry Analysis of Pharmaceutical Intermediate products; Qinghe Wang¹; Keyu Zhou¹; Jing Lu²; Kefei Wang¹; ¹Bruker Daltonics, Shanghai, China; ²Bruker Daltonics, Beijing, China
- WP 375 Evaluation of the Precision of Ion Mobility Mass Spectrometry for Coulombic Unfolding of Intact Proteins and Disulfide Bond Characterization; David McCaskill¹; John Patrick O'Brien²; Krishna Kuppannan¹; Jeffrey Gilbert¹; Ruwan Kurulugama³; Garrison Birch³; John Fjeldsted³; ¹Dow AgroSciences, Indianapolis, IN; ²The Dow Chemical Company, Midland, MI; ³Agilent Technologies Inc., Santa Clara, CA



- WP 377 Drug-Protein Interaction and Biomolecular Conformation Analysis by High-Resolution Ion Mobility-Mass Spectrometry; Urs Rohner¹; Matthew P. Sulivan²; David C. Goldstone³; Christian G. Hartinger²; Michael Groessl⁴; ¹TOFWERK, Thun, Switzerland; ²School of Chemical Sciences, University of Auckland, Auckland, New Zealand; ³School of Biological Sciences, University of Auckland, Auckland, New Zealand; ⁴Department of Clinical Research, Bern, Switzerland
- WP 378 Rapid Differentiation of Chemically Modified Insulin Isomers by Ion Mobility Mass Spectrometry;

 Weijuan Tang¹; Nicholas Pierson¹; Gregory Pirrone¹;

 Alexey Makarov¹; Shane Krska²; ¹Analytical Research & Development, Merck & Co. Inc., Rahway, NJ; ²Discovery Chemistry, Merck & Co., Inc., Kenilworth, NJ
- WP 379 Rapid Monitoring of Glutathione-Adduction Reactions by Ion Mobility-Mass Spectrometry; <u>Dylan Ross</u>1; Kelly M. Hines1; Michele Scian1; Libin Xu1; *Department of Medicinal Chemistry, University of Washington, Seattle, WA
- WP 380 Structural Characterization of PEGylated Proteins via Ion Mobility Mass Spectrometry; John P O'Brien¹; Kevin P O'Donnell¹; David M Meunier¹; *Jow Chemical Company, Midland. MI
- WP 381 Ion Mobility Mass Spectrometry Reveals Details of Formation and Structure for DNA Triplexes; <u>Tara Pukala</u>¹; Alexander Begbie¹; Jiawei Li¹; David Huang¹; ¹University of Adelaide, Adelaide, South Australia
- WP 382 Characterization of N-linked Isomeric Glycans Using LC and Field Asymmetric Waveform Ion Mobility Spectrometry (FAIMS) with Mass Spectrometry;

 Daniel Delafield¹; Zhe Wang¹; Matthew Baird²; Alexandre A. Shvartsburg³; Si Wu¹; Kenneth Smith⁴; ¹University of Oklahoma, Norman, OK; ²Wichita State University, Wichita, KS Kansas; ³Wichita State University, Wichita, KS; ⁴Oklahoma Medical Research Foundation, Oklahoma City, OK
- WP 383 Anion Attachment for Separation of Isomeric Steroids by Trapping Ion Mobility Spectrometry (TIMS) - ToF; Richard B. Cole¹; Christian Albers²; Dorith Brombach²; ¹Sorbonne Universités - UPMC (Paris 6), Paris, France; ²Bruker Daltonik GmbH, Bremen, Germany
- WP 384 On the Accuracy of Poly-DL-Alanine Calibration in T-Wave Ion Mobility; Bela Paizs^{1, 2}; Daniel Chaplin¹; Keith Richardson³; Nick Tomczyk³; Kevin Giles³; Zoltan Takats^{2, 4}; ¹Bangor University, Bangor, Gwynedd; ²deShape Ltd., Bangor, UK; ³Waters Corporation, Wilmslow, UK; ⁴Imperial College London, London, England
- WP 385 Structural Characterization of HMGA2 and HMGA2-DNA complexes using nanoESI-CIA-HDX-TIMS-MS; Alyssa L. Garabedian¹; Alexander Bolufer¹; Prem Chapagain¹; Fenfei Leng¹.²; Francisco A. Fernandez Lima¹.²; ¹Florida International University, Miami, FL; ²Biomolecular Sciences Institute. Miami, FL
- WP 386 Structural Characterization of Multi-Stranded DNA Topologies using nanoESI-CIA-TIMS-MS; <u>Jacob Porter</u>¹; Alyssa L. Garabedian¹; Francisco Fernandez Lima^{1, 2};

 ¹Florida International University, Miami, FL; ²Biomolecular Sciences Institute, Miami, FL
- WP 387 Time-resolved Ion Mobility-Mass Spectrometry Reveals Structural Transitions in the Disassembly of Modular Polyketide Synthases; Chunyi Zhao¹; Joseph D. Eschweiler¹; Samuel T. Slocum²; David H. Sherman¹. ²; Brandon T. Ruotolo¹; ¹University of Michigan Chemistry

- Department, Ann Arbor, MI; ²University of Michigan Life Sciences Institute, Ann Arbor, MI
- WP 388 Large-Scale Prediction of Collision Cross-Section Values for Metabolites and Lipids in Ion Mobility-Mass Spectrometry; Zhiwei Zhou¹; Zhengjiang Zhu¹; ¹IRCBC, Chinese Academy of Sciences, Shanghai, China
- WP 389 Semi-Automated Screen for Protein Conformational Changes in Solution by Combined Size-Exclusion Chromatography, Differential HDX, and Ion Mobility

 Mass Spectrometry; Nicholas A Pierson¹; Alexey A Makarov¹; Christopher A Strulson¹; Gregory F Pirrone¹; Yun Mao¹; Bing Mao¹; **Merck & Co., Inc., Rahway, NJ
- WP 390 Large-Scale Structural Characterization of Drug and Drug-Like Compounds by High-Throughput Ion Mobility-Mass Spectrometry; Kelly M. Hines¹; Dylan H. Ross¹; Kimberly L. Davidson²; Matthew F. Bush²; Libin Xu¹; ¹Department of Medicinal Chemistry, University of Washington, Seattle, WA; ²Department of Chemistry, University of Washington, Seattle, WA
- WP 391 Ion Mobility Mass Spectrometry as a Rapid Approach for the Separation and Analysis of Procyanidins in Botanicals; Emily A. Rue¹; Richard B. van Breemen¹;

 1 University of Illinois, Chicago, IL
- WP 392 Discovering Isomeric Metabolites with Liquid Chromatography Drift Tube-Ion Mobility Mass Spectrometry; Tong Shen¹; Ivana Blaženović¹; Marco Piparo¹.²; Jian Ji¹.³; Tobias Kind¹; Oliver Fiehn¹; ¹NIH West Coast Metabolomics Center, University of California, Davis, CA; ²University of Messina, Messina, Italy; ³Jiangnan University, Wuxi, China

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- WP 394 Multiple Applications of In Vivo Synthesized Isotopically Enriched Standards in LC-MS Based Analysis; Gerrit Hermann^{1,2}; Michaela Schwaiger¹; Evelyn Rampler¹; Petra Volejnik¹; Luca Bamonti¹; Stephan Hann³; Gunda Koellensperger¹; ¹University of Vienna, Vienna, Austria; ²ISOtopic Solutions, Vienna, Austria; ³University of Natural Resources and Life Sciences BOKU, Vienna, Austria
- WP 395 Analysis of Amine-Containing Compounds using Isotope-Labeled Tert-Butyloxy Carbonyl Tag and Ultra-High-Pressure Liquid Chromatography High Resolution Mass Spectrometry; yongsoo choi¹; Lei Peng¹.²; Jeong-Sook Shin¹; ¹Korea Institute of Science and Technology, Gangneung, Gangwon; ²University of Science and Technology, Youseng-gu, South Korea
- WP 396 Glycolytic Flux Mass Spectrometry Analysis of Metabolic Response to Cancer Therapeutics; Collin Wetzel¹; Catherine A. Behrmann²; Kelli Ennis²; Pranjal Sarma²; Maria F. Czyzyk-Krzeska²-³; Patrick A. Limbach⁴; David R. Plas²; ¹University of Cincinnati, Cincinnati, OH; ²University of Cincinnati, Dept. of Cancer Biology, Cincinnati, OH; ³Department of Veteran Affairs Medican Center, Cincinnati, OH; ⁴University of Cincinnati, Cincinnati, OH
- WP 397 U13C Glucose Tracing of Exercise Induced Metabolism using UHPLC-HRMS; Michelle E. Reid¹; Irwin J. Kurland²; Yunping Qiu²; Timothy J. Garrett³; Richard A. Yost¹; ¹Chemistry Department, University of Florida, Gainesville, FL; ²Department of Medicine, Albert Einstein College of Medicine, New York City, NY; ³Department of Pathology, Immunology and Laboratory Medicine, University of Florida, Gainesville, FL



- WP 398 Stable Isotope-Assisted Metabolomics Reveals
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 Norman Hord¹; Jan F. Stevens¹; ¹Oregon State University,
 Corvallis OR
- WP 399 Direct and Accurate LC/MS Quantitation of Ring Labeled Compounds; Dawei Zhou¹; Jianwei Zhao¹; Peter L. Wang¹; Don Kuehl²; Ming Gu²; Yongdong Wang²; ¹WuXi AppTec, Plainsboro, NJ; ²Cerno Bioscience, Norwalk, CT
- WP 400 Multiple Stable Isotope Resolved Metabolomics (mSIRM) of Amino Acids using Ultra-high Resolution FTMS Coupled with Chloroformate Derivatization; Ye Yang¹; Teresa W.-M. Fan¹; Andrew N. Lane¹; Richard M. Higashi²; ¹University of Kentucky, Lexington, KY; ²University of Kentucky, Lexington, KY
- WP 401 Sensitive and Chromatographically Robust Strategies for Biological Mass Isotopologue Analysis; Hardik Shah¹;

 <u>Justin R. Cross</u>¹; ¹Donald B. and Catherine C. Marron

 Cancer Metabolism Center at Memorial Sloan Kettering

 Cancer Center, New York, NY
- WP 402 Untargeted Stable Isotope Tracing (USIT) Reveals
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 Chen¹; Marilena D'Aurelio¹; Giovanni Manfredi¹; Steven S.
 Gross¹; ¹Weill Cornell Medicine, New York, NY
- WP 403 Comparison of GC-TOF-MS, GC-QTOF-MS and GC-Quadrupole-MS for Stable Isotope Tracer Studies; BeiGao¹; Mona Elbadawi-Sidhu¹; Zijuan Lai¹; Tara Gallagher²; Katrine Whiteson²; Oliver Fiehn¹; ¹University of California, Davis, Davis, CA; ²University of California, Irvine, Irvine, CA

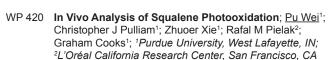
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- WP 404 LipiDex: An Integrated Software Solution for Spectral Library Lipidomics; Paul D Hutchins¹; Jason D Russell²; Michael T Westphall³; Joshua J Coon^{1, 2, 3, 4}; ¹Department of Chemistry, University of Wisconsin-Madison, Madison, WI; ²Morgridge Institute for Research, Madison, WI; ³Genome Center of Wisconsin, Madison, WI; ⁴Department of Biomolecular Chemistry, University of Wisconsin-Madison, Madison, WI
- WP 405 Increasing Lipid Identifications in LC-HRMS/MS using Automated Exclusion List Generation from Previous Injections; Jeremy Koelmel¹; Nicholas M. Kroeger²; Jason A. Cochran²; Emily L. Gill¹; John A. Bowden³; Candice Z. Ulmer³; Richard A. Yost¹.⁴; Timothy J. Garrett¹.⁴; ¹University of Florida, Department of Chemistry, Gainesville, FL; ²University of Florida, College of Engineering, Gainesville, FL; ³National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC; ⁴University of Florida, Clinical and Translational Science Institute, Gainesville, FL
- WP 406 Illuminating the Structural Diversity of the Lipidome:
 193nm Ultraviolet Photodissociation Tandem
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 Christopher Shiea¹; Gavin E Reid¹; ¹University of Melbourne,
 Parkville, Vic
- WP 407 Development of a Microflow Photochemical Reaction System for Shotgun Analysis of Unsaturated Lipids; Pei Su¹; Xiaoxiao Ma¹.²; Wenpeng Zhang²; Zheng Ouyang²; Yu Xia¹; ¹Department of Chemistry, Purdue University, West Lafayette, IN; ²Weldon School of Biomedical Engineering, Purdue University, West Lafayette, IN
- WP 408 Development of a Flow-Cell Ozonolysis Device Coupled to Ion Mobility Mass Spectrometry for Determining Double-Bond Position in Lipids; Rachel A. Harris¹; Craig A. Stinson²; Yu Xia²; Jody C. May¹; John A. McLean¹;

 'Vanderbilt University, Nashville, TN; 'Purdue University, West Lafayette, IN

- WP 409 Molecular Structural Analysis of the Gram-Positive Bacterial Membrane Enterococcus Faecium and Staphylococcus aureus; Sung Hwan Yoon¹; Benjamin L. Oyler¹; Lisa Leung¹; Tao Liang¹; Young In Lee¹; Robert K Ernst¹; David R Goodlett¹; ¹University of Maryland, Baltimore, MD
- WP 410 Utilisation of SimLipid for the Characterisation of Metabolic Syndrome Related Lipids Acquired using a Novel Scanning Quadrupole DIA Acquisition Method; Lee A Gethings¹; Ningombam Sanjib Meitei²; Johannes P.C. Vissers¹; David Heywood¹; Jose Castro-Perez³; James I Langridge¹; ¹Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK; ²Premier Biosoft, Palo Alto, CA; ³Waters Corp., Milford, MA
- WP 411 Instrumental and Software Developments for Enhancing Coverage of the Lipidome; Russell Lewis¹; Jeremy P. Koelmel¹; Robin H.J. Kemperman¹; John A. Bowden²; Timothy J. Garrett¹; Richard A. Yost¹; ¹University of Florida, Gainesville, FL; ²National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC
- WP 412 Characterization of the Lipid A Forms in Gemmata obscuriglobus by MALDI-ToF/ToF-MS; Rudolph Mignon¹; Anthony Maus¹; Rajendra Mahat¹; Corrine Seebart¹; Naomi Ward¹; Franco Basile¹; **Inniversity of Wyoming, Laramie, WY
- WP 413 Gas-Phase Charge Inversion of Trimethylation Enhancement Using 13C-Diazomethane (13C-TrEnDi)-Modified Phospholipids via Ion/Ion Reaction; Stella K. Betancourt¹; Carlos R. Canez²; Samuel W.J. Shields²; Jeffrey C. Smith²; Scott A McLuckey³; **Purdue University, West Lafayette, IN; **2Carleton University, Ottawa, ON, Canada; **3Purdue University, West Lafayette, IN
- WP 414 Long-Chain acyl-CoA Synthetase Isoforms Differ in Preferences for Eicosanoid Species and Long-Chain Fatty Acids; Fred Bjorn LIH¹; Eric L Klett².³; Shufen Chen².
 ³; Leesa J Deterding¹; ¹NIEHS/NIH, RTP, NC; ²University of North Carolina School of Medicine, Chapel Hill, NC;
 ³University of North Carolina School of Public Health, Chapel Hill, NC
- WP 415 Enantiomer Identification in Eicosanoids using Hydrogen-Deuterium Exchange (HDX) Electron Induced Dissociation (EID) Mass Spectrometry; <u>Takashi Baba</u>'; J. Larry Campbell'; J.C. Yves LeBlanc¹; Paul RS Baker²;

 **SCIEX, Concord, ON, Canada; **SCIEX, Redwood City, CA
- WP 416 Structural Characterization of Isomeric Lipids by High-Resolution FAIMS/Ozone Identification Analyses of Metal-Cationized Species; Andrew Bowman¹; Berwyck Poad²; Stephen J. Blanksby²; Todd W. Mitchell³; Julia L. Kaszycki¹; Matthew A. Baird¹; Alexandre A. Shvartsburg¹; * Wichita State University, Wichita, KS; * 2Queensland University of Technology, Brisbane, Australia; * 3University of Wollongong, Wollongong, Australia
- WP 417 LipidSearch 5.0: A New Software for Processing Data from Direct Infusion and LC-MS High Resolution Mass Spectrometry Based Lipidomics Workflows; David A. Peake¹; Yasuto Yokoi²; Yukihiro Fukamachi²; Reiko Kiyonami¹; Elena Sokol¹; Gavin E Reid³; ¹Thermo Fisher Scientific, San Jose, CA; ²Mitsui Knowledge Industry Co., Tokyo, Japan; ³University of Melbourne, Parkville, Australia
- WP 418 Identification of Ether Glycerophosphoethanolamine from Brain Lysosomes; <u>Jace W. Jones</u>¹; Chinmoy Sarkar²; Marta M Lipinski²; Maureen A Kane¹; ¹University of Maryland School of Pharmacy, Baltimore, MD; ²University of Maryland School of Medicine, Baltimore, MD
- WP 419 In-situ Monitoring of Lipid Oxidation using
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 Chervet¹; Martin Eysberg³; ¹Antec Scientific, Zoeterwoude,
 Netherlands; ²University of Leipzig, Center for Biotechnology
 and Biomedicine, Leipzig, Germany; ³Antec Scientific (USA),
 Boston, MA



- WP 421 Structure Activity Relationship Elucidation of Pseudomonas Aeruginosa Lipopolysaccharide Variants Associated with Cystic Fibrosis using a Multivaried Mass Spectrometric Approach; Mohd M. Khan¹;
 Benjamin L. Oyler²; Sung Hwan Yoon³; Erin M. Harberts³; Donald F. Smith⁴; Robert K. Ernst³; David R Goodlett⁵;
 ¹University of Maryland School of Medicine, Baltimore, MD; ²Institute of Marine & Environmental Technology, University of Maryland Center for Environmental Science, Baltimore, MD; ³Department of Microbial Pathogenesis, University of Maryland School of Dentistry, Baltimore, MD; ⁴National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL; ⁵Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, Baltimore, MD
- WP 422 In-Depth Structural Characterization of Phospholipids by Pairing Photochemical Reaction with Charge Inversion Ion/Ion Chemistry; Elissia Franklin¹; Stella K Betancourt¹; Caitlin Quinn¹; Scott A McLuckey¹; Yu Xia¹; ¹Purdue University, West Lafayette, IN

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 Klaus Dreisewerd¹.²; Jens Soltwisch¹.²; ¹University of
 Münster, Münster, Germany; ²Interdisciplinary Center for
 Clinical Research (IZKF), Münster, Germany
- WP 424 Liquid AP-MALDI: Ion Signal Intensity and Persistence at Laser Repetition Rates Between 1 Hz and 5 kHz;

 Jeff Brown¹; Rainer Cramer²; Michael Morris¹; ¹Waters

 Corporation, Wilmslow, UK; ²University of Reading,

 Reading, UK
- WP 425 Mass Spectrometry Imaging Based on Laser Activated Interfacial Electron Transfer and Photoelectron Capture Ionization on Surfaces of Semiconductors; Hongying Zhong; Central China Normal University, Wuhan, Hubei Province
- WP 426 Diagnosing and Correcting Mass Accuracy and Signal Intensity Error Due to Initial Ion Position Variations in a MALDI TOFMS; Brian Malys¹; Michelle Piotrowski¹; Kevin Owens¹; ¹Drexel University, Philadelphia, PA
- WP 427 New Insights into the Wavelength Dependence of Standard MALDI-MS and MALDI-MS Imaging; Annika Koch¹; Marcel Wiegelmann¹; Andreas Schnapp¹; Jens Soltwisch¹.²; Klaus Dreisewerd¹.²; ¹University of Münster, Institute for Hygiene, Münster, Germany; ²University of Münster, Interdisciplinary Center for Clinical Research (IZKF), Münster, Germany
- WP 428 Thermodynamic Studies of Gas-Phase Equilibria in MALDI MS; GARY R. KINSEL¹; Madison McMinn¹; Lee Elliott¹; ¹Southern Illinois University Carbondale, Carbondale, IL
- WP 429 Thermal Desorption Model in Nanoparticle-Assisted Laser Desorption Ionization: Effects of Thickness and Substrate in Internal Energy of Thermometer Molecule; Jennifer L. Bravo¹; Rebecca Hansen¹; Young Jin Lee²; ¹Iowa State University, Ames, Iowa; ²Iowa State University, Ames, IA

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- WP 431 Using SRM to Monitor Hydrolysis of β-lactam Antibiotics by P. Aeruginosa as a Tool for Studying Antimicrobial Resistance.; Anthony M Haag^{1, 2}; Sigmund J Haidacher^{1, 2}; Kathleen M Hoch^{1, 2}; Jennifer K Spinler^{1, 2}; Ruth Ann Luna^{1, 2}; *Baylor College of Medicine, Houston, TX; *2Texas Children's Hospital, Houston, TX
- WP 432 Development of a Clinical Metabolomics Platform:
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 Carol Ball²; Sander Houten^{1, 3}; Chunli Yu¹; ¹Icahn School of Medicine at Mount Sinai, New York, NY; ²Agilent Technologies, Santa Clara, CA; ³Icahn Institute for Genomics and Multiscale Biology, New York, NY
- WP 433 Bladder Cancer Metabolomics Using the UPLC/
 MS-based AbsoluteIDQ p180 Kit; Vasanta Putluri¹; Sri
 Ramya Donepudi¹; Feng Jin¹; Suman Maity¹; Venkatrao
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 Putluri¹; ¹Baylor College of Medicine, Houston, TX; ²Agilent
 Technologies, Inc., Santa Clara, CA
- WP 434 A Label-Free LC-DIA-MS Method to Identify Potential Biomarkers Involved in Spontaneous Pre-Term Birth (sp-PTB), using an Untargeted Metabolomics Approach; Shirish Yakkundi¹; Lee Gethings²; Aude-Clare Morillon¹; James Langridge³; Louise Kenny¹; ¹Cork University Maternity Hospital, Cork; ²Waters Corporation, Wilmslow, UK; ³Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- WP 435 Quantitative and Comprehensive Plasma Metabolome Profiling Using Four Isotope Labeling Chemistries and LC-MS; Shuang Zhao¹; Wan Chan¹; Liang Li¹; ¹University of Alberta, Edmonton, Alberta
- WP 436 Aiding Diagnosis of Rare Disease: Applications of Mass Spectrometry-Based Metabolomics in the Undiagnosed Diseases Network; Thomas O. Metz¹; Jennifer E. Kyle¹; Kelly G. Stratton¹; Jean-Philippe Gourdine²; Erika M. Zink¹; Young-Mo Kim¹; Heino M. Heyman¹; Bobbie-Jo M. Webb-Robertson¹; Katrina M. Waters¹; Melissa A. Haendel²; David M. Koeller²; ¹Pacific Northwest National Laboratory, Richland, WA; ²Oregon Health & Science University, Portland, OR
- WP 437 Can the Rapid Evaporative Ionization Mass Spectrometry (REIMS) Intelligent Surgical Knife (iKnife) Differentiate between Normal and Malignant Endometrial Tissue?; Diana Marcus¹; David Phelps¹; Zsolt Bodai¹; Adele Savage²; Francesca Rosini¹; Hiromi Kudo¹; Sadaf Ghaem-Maghami¹; Zoltan Takats¹; ¹Imperial College London, London, London; ²Imperial College London, London, UK
- WP 438 Measuring Changes in Brain Metabolite Levels using Live-Animal Magnetic Resonance Spectroscopy and Offline LC-MS Metabolomics in a Binge-Ethanol Murine Model; Michelle L Dubuke^{1, 2}; Guillaume L Poirer³; Laurellee Payne³; Arlene Lim⁴; Pranoti Mandrekar⁴; Constance M Moore³; Jean A King³; Scott A. Shaffer^{1, 2};

 1 Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA; 2 Proteomics and Mass Spectrometry Facility, University of Massachusetts Medical School, Shrewsbury, MA; 3 Center for Comparative Neuroimaging, University of Massachusetts Medical School, Worcester, MA;

- ⁴Department of Medicine, University of Massachusetts Medical School, Worcester, MA
- WP 439 Untargeted Metabolite Profiling of Cerebrospinal Fluid Uncovers Potential Biomarkers for Severity of Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2 Disease); Miriam Sindelar¹; Jonathan P Dyke¹; Douglas Ballon¹; Dolan Sondhi¹; Stephen M Kaminsky¹; Ruba S Deeb¹; Barry E Kosofsky¹; Ronald G Crystal¹; Steven S Gross¹; ¹Weill Cornell Medicine, New York, NY
- WP 440 Proteometabolomics of Drug Resistance in Multiple Myeloma; Paula Oliveira¹; Bin Fang¹; Joy D. Guingab²; Mark Meads¹; Min Liu¹; Eric A Welsh³; Steven Eschrich¹; Kenneth Shain¹; Timothy J. Garrett²; John Koomen¹; ¹Moffitt Cancer Center, Tampa, FL; ²University of Florida, Gainesville, FL; ³Moffitt Cancer Center, Tampa, FL
- WP 441 AOX1 Regulates Xenobiotic Metabolism in Bladder Cancer: Implications for Bladder Cancer; Venkatrao Vantaku¹; Sri Ramya Donepudi¹; Vasanta Putluri¹; Suman Maity¹; Feng Jin¹; Vadiraja Bhat²; MeghaShyam Kavuri¹; Nagireddy Putluri³; ¹Baylor College of Medicine, Houston, TX; ²Agilent Technologies, Santa Clara, CA; ³Baylor College of Medicine, Houston, TX
- WP 442 Metabolomics and Proteomics of Early Acquired Enamel Plaque (AEP) from Caries-Free Subjects; Nivedita

 Bhattacharya¹; Dharmesh Parmar¹; Ajeet Singh²; Ganesh Jadhav³; Anil Kishen⁴; Dipali Nagda³; Venkateswarlu Panchagnula¹; ¹CSIR-National Chemical Laboratory, Pune, Maharashtra; ²Center for Applications of Mass Spectrometry, Pune, India; ³Sinhgad Dental College and Hospital, Pune, India; ⁴University of Toronto, Toronto, ON, Canada
- WP 443 Characterizing the Impact of Sample Collection Protocol on Untargeted Metabolomics Profiles of Blood Serum;

 Tom Dignan¹; Benjamin Hunter¹; Hayley Abbiss¹; Garth Malker¹; Edward Litton²; Joel Gummer¹; Robert Trengove

 1; 'Murdoch University, Murdoch , WA; 'Western Australia Department of Health, Perth, Australia
- WP 444 NanoLC-MSMS Metabolomics for Tracking both Prescribed and Patient Selected Agents during Advanced Chemotherapy Its Value in Precision Medicine; Stephen Barnes¹; Landon S. Wilson¹; Carolina Salvador¹; Wendy Demark-Wahnefried¹; ¹University of Alabama at Birmingham, Birmingham, AL
- WP 445 **Metabolites of Brexpiprazole in Human Urine**; Jeffrey R. Enders¹; Sandeep Gunna Reddy²; <u>Erin C. Strickland</u>¹; Gregory L. McIntire¹; ¹Ameritox, LLC, Greensboro, NC; ²Triad Psychiatric and Counseling Center, Greensboro, NC
- WP 446 Utilizing Purified β-Glucuronidase and Arylsulfatase to Identify Global Metabolites in Human Serum; Pongkwan Nikki Sitasuwan¹; Margarita Marinova¹; Cathleen Melendez¹; Todd Mullis¹; Sunil Hwang¹; Andrew Lee¹; ¹Integrated Micro-Chromatography Systems, LLC, Irmo, SC

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- WP 447 Quantifying Spectral Accuracy of the Orbitrap Mass Analyzer by Comparison with the Isotope Ratio Mass Spectrometry; Sitora Khodjaniyazova¹; Milad Nazari¹; Mayara P. V. Matos²; Glen P. Jackson²; David C. Muddiman¹;

 1 North Carolina State University, Raleigh, NC; 2 West Virginia University, Morgantown, WV
- WP 448 Structure Elucidation of x17299 by Interpretation of Mass Spectrometric Data; Qibo Zhang¹; Lisa A. Ford¹; Anne M. Evans¹; Douglas R. Toal¹; ¹Metabolon, Inc., Durham. NC
- WP 449 Structural Characterization of Advanced Glycation End-Products from Lysine- and Arginine-Containing Peptides through Tandem Mass Spectrometry and IRMPD Spectroscopy; Laura Bailey¹; Nicolas C Polfer¹; ¹University of Florida, Department of Chemistry, Gainesville, FL

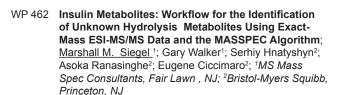
- WP 450 Relative Isotopic Abundance on Orbitrap Fusion: input of Accurate 13C Measurement and 18O/13C2 Separation and Measurements for Annotation in Metabolomics;

 Pierre Barbier Saint Hilaire¹; Benoit Colsch¹; Christophe Junot¹; François Fenaille¹; ¹CEA, iBiTecS, SPI, Laboratoire d'Etude du Métabolisme des Médicaments, MetaboHUB-Paris, Université Paris Saclay, Gif-sur-Yvette cedex, France
- WP 451 Into the Unknowns New Libraries of Recurrent Unidentified Mass Spectra from Biological Materials;

 John M. Halket¹; Anna Caldwell¹; Wm. Gary Mallard²; Nirina Andriamaharavo²; Stephen E Stein²; ¹King's College London, London, London; ²NIST, Gaithersburg, MD
- WP 452 A High-Resolution Orbitrap GC-MS Spectral Library for Discovery Metabolomics; Matthew J. P. Rush¹; Kyle J. Connors¹; Nicholas W. Kwiecien¹; Edna A. Trujillo¹; Jason D. Russell²; Michael S. Westphall¹; Joshua J. Coon¹; ¹University of Wisconsin Madison Department of Chemistry, Madison, WI: ²Morgridge Institute for Research, Madison, WI
- WP 453 Evaluation and Application of Lysimeters for Untargeted Soil Solution Analytics and Marker Identification;

 Nico Ueberschaar¹; Katharina Lehmann¹; Andreas
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 Totsche¹; Georg Pohnert¹; ¹Friedrich Schiller University Jena,
 Jena, Germany
- WP 454 Novel UHPLC-timsTOFMS/MS and UHPLC-MS-SPE-NMR Tools for Higher-throughput, Confident Metabolite Identifications and to Address the Number One Grand Challenge of Metabolomics; Lloyd W. Sumner¹; Feng Qiu²; Daniel Wherritt³; Zhentian Lei²; Aiko Barsch⁴; Sven Meyer⁴;

 ¹The University of Missouri at Columbia, Columbia, MO;
 ²University of Missouri, Columbia, MO; ³University of Texas at San Antonio, San Antonio, TX; ⁴Bruker Daltonics, Bremen, Germany
- WP 455 Just How Many Unknowns are there in a Metabolomics Data Set? Really?; Chris Beecher¹; Timothy J. Garrett²; Casey A. Chamberlain²; Joy D. Guingab²; Richard A. Yost²; Alexander Raskind³; Felice de Jong⁴; ¹/ROA Technologies, Gainesville, FL; ²University of Florida, Gainesville, FL; ³University of Michigan Medical School, Ann Arbor, MI; ¹/ROA Technologies, Gainesville, FL
- WP 456 Prediction of Unidentified Peak Structure in High-Resolution Metabolomics with Quantitative Structure-Retention Time analysis; <u>Ken Liu</u>¹; Douglas I. Walker¹; Karan Uppal¹; ViLinh Tran¹; Dean Jones¹; <u>*Emory University</u>, Atlanta. GA
- WP 457 Utilizing Very High Resolution for Selective Component Separation in Complex Matrices; <u>Tim Stratton</u>¹; Seema Sharma²; <u>1Thermo Fisher Scientific, San Jose, CA</u>; <u>2ThermoFisher, San Jose, CA</u>
- WP 458 Comprehensive Statistical Analysis of the Largest High Resolution Small Molecule ESI/APCI Library as Condition for Confident Compound ID; Michal Raab¹; Juraj Lutisan¹; Milos Suchy¹; Robert Mistrik¹; ¹HighChem, Bratislava, Slovakia
- WP 459 Infrared Ion Spectroscopy as a Method to Structurally Elucidate Unknown Metabolites; Adam Cismesia; University of Florida, Department of Chemistry, Gainesville,
- WP 460 Enhanced GC-MS based Isotopic Ratio Outlier Analysis (IROA) Peak Detection and Identification with Ultrahigh Resolution GC-Orbitrap-MS; Yunping Qiu¹; Robyn Moir¹; Ian Willis¹; Jie Qian²; Robert C. Biniakewitz, ²; Irwin J. Kurland¹; ¹Albert Einstein College of Medicine, New York, NY; ²Thermo Fisher Scientific, Somerset, NJ
- WP 461 Application of Gas-Phase Hydrogen Deuterium Exchange (HDX), Collision-Induced Dissociation (CID), and Collision Cross Section Calculations (CCS) for Metabolite Characterization; Hossein Maleki¹; Megan Maurer¹; Stephen J. Valentine¹; **West Virginia University, Morgantown, WV



- WP 463 Metabolomics of Human Hepatocytes; <u>Jianyao Wang</u>¹; Wenyu Li¹; Raul Camacho¹; Heng keang Lim¹; Rhys Salter¹; ¹Johnson and Johnson, Spring House, PA
- WP 464 Development and Application of Tandem Mass Spectral Libraries of Recurrent Unidentified Spectra for the Generation of Unique Metabolomic Radiation Signatures; Yamil Simón-Manso¹; Ramesh Marupaka²; Xinjian Yan²; Kelly H. Telu²; Yuri Mirokhin²; Yuxue Liang²; Evagelia C. Laiakis³; Albert J. Fornace³.⁴; Stephen E Stein²; ¹NIST, Gaithersburg, MD; ²NIST, Gaithersburg, MD; ³Georgetown University, Department of Biochemistry and Molecular & Cellular Biology, Washington, DC; ⁴Georgetown University, Lombardi Cancer Center, Washington, DC
- WP 465 Modification-Tolerant Identification of Antibiotics and Other Peptidic Natural Products Through Database Search of Mass Spectra; Hosein Mohimani¹; Alexey Gurevich²; Alla Mikheenko²; Alexander Shlemov²; Anton Korobeynikov^{2, 3}; Pavel Pevzner^{1, 2}; ¹Computer Science and Engineering Department, UC San Diego, San Diego, CA; ²Center for Algorithmic Biotechnology, Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia; ³Department of Mathematics and, St. Petersburg State University, St. Petersburg, Russia

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- WP 467 Untargeted Discovery SWATH vs Targeted dynamic MRM Analysis for Quantitative Metabolomics
 Profiling of a Mutant Melanoma Line; Li Zhang¹; Lauren Rodenbarger²; Daniel Kremer³; Maureen Kachman⁴; David Lombard²; Costas Lyssiotis³; ¹The Michigan Regional Comprehensive Metabolomics Research Core, University of Michigan, Ann Arbor, MI; ²Department of Pathology, University of Michigan, Ann Arbor, MI; ³Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI; ⁴Michigan Regional Comprehensive Metabolomics Resource Center, University of Michigan, Ann Arbor, MI
- WP 468 Comparative Metabolomics Study Revealing Staphylococcus Aureus Metabolic Response to Different Antibiotics; Jiangjiang Zhu; Miami University, Oxford, OH
- WP 469 Metabolic Determination of Acetaminophen in Down Syndrome Disease Research Using Targeted Mass Spectrometry; Melanie Juba¹; Christina Iverson²; Olivia Iverson³; Jeffery Miller¹; Baljit Ubhi¹; ¹SCIEX, Redwood City, CA; ²Algonquin Regional High School, Northborough, MA; ³Boston University, Boston, MA
- WP 470 Simultaneous and Comprehensive Determination of Tryptophan and its Catabolites in Mouse Tissues by Polarity Switching UHPLC-MRM-MS; Guan-yuan Chen¹; Wei Zhong¹; Zhanxiang Zhou^{1,2}; Qibin Zhang^{1,3}; ¹Center for Translational Biomedical Research, University of North Carolina at Greensboro, Kannapolis, NC; ²Department of Nutrition, University of North Carolina at Greensboro, Greensboro, NC; ³Department of Chemistry & Biochemistry, University of North Carolina at Greensboro, Greensboro, NC
- WP 471 A Novel GC-MS Assay for Quantitation of Short Chain Fatty Acids in Human Plasma; Linxing Yao¹; Emily A.

- Davidson¹; Corey D. Broeckling¹; Jessica E. Prenni¹; ¹Proteomics and Metabolomics Facility, Colorado State University, Fort Collins, CO
- WP 472 LC-MS-Based Metabolomics Revealed SLC25A22 as an Essential Regulator in the Aspartate-Derived Amino Acids and Polyamines in KRAS-Mutant Colorectal Cancer; Xiaona Ll¹; Chi Chun Wong²; Zongwei Cai*¹; ¹State Key Laboratory of Environmental and Biological Analysis, Department of Chemistry, Hong Kong Baptist University, Hong Kong, China; ²Institute of Digestive Disease and Department of Medicine and Therapeutics, State Key Laboratory of Digestive Disease, Li Ka Shing Institute of Health Sciences, Chinese University of Hong Kong, Hong Kong, China
- WP 473 Towards Quantification of Anti-Cancer Compounds in Individual Patient Bladder Cancer Cells; Shawna Standke¹; Ning Pan¹; Naga Rama Kothapalli¹; Anh T. Le¹; C. A. Malinky²; Anthony W. Burgett¹; Zhibo Yang¹; ¹University of Oklahoma, Norman, OK; ²University of Oklahoma, Norman, OK
- WP 474 Quantification of polyamines and Urea Cycle
 Metabolites in Biological Samples by HILIC-MS; Judy
 Baek¹; Stefanie Wernisch¹; Yun Jin Sin²; Jaeman Byun¹;
 Subramaniam Pennathur¹; ¹University of Michigan Medical
 Center, Ann Arbor, MI; ²University of Michigan, Ann Arbor, MI
- WP 475 Effect of Stress on Eucalyptus Plant Metabolome;
 Seetaramanjaneyulu Gundimeda¹; Daniela Feltrim²; Paulo
 Mazzafera²; ¹Agilent technologies, Bangalore, India;
 ²Plant Biology Department, State University of Campinas,
 Campinas, Brazil
- WP 476 Enhanced Targeted Metabolomics with High Resolution MS Adaption of a Standardized Metabolomics Assay from Triple Quad to Orbitrap MS; Hai Pham Tuan¹; Doreen Kirchberg¹; Martin Buratti¹; Simon Schafferer¹; Kristaps Klavins¹; Glenn Damkroeger²; Madalina Oppermann²; Anastasia Kalli³; Reiko Kiyonami³; David Peake³; Andreas Huhmer³; Therese Koal¹; ¹BIOCRATES Life Sciences AG, Innsbruck , Tyrol; ²Thermo Fisher Scientific, Bremen, Germany; ³Thermo Fisher Scientific, San Jose. CA
- WP 477 Determination of 8-oxo-7,8-dihydroguanosine in Urine from Patients with Colorectal Cancer using Ultra Performance Liquid Chromatography–Tandem Mass Spectrometry; Cheng Guo¹; Shu Zheng¹; ¹Zhejiang University, Hangzhou, Zhejiang
- WP 478 NMR Guided Mass Spectrometry for Absolute
 Quantitation of Human Blood Metabolites; Daniel
 Raftery¹; G. A. Nagana Gowda¹; Danijel Djukovic¹; Haiwei
 Gu¹; ¹UW Medicine, SLU, Seattle, WA
- WP 479 Identification of Race-Associated Metabolite
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 Poto¹; Shisi He¹; Rency S. Varghese¹; Yi Zhao²; Alessia
 Ferrarini¹; Abdullah Karabala³; Habtom W. Ressom¹;
 ¹Georgetown University, Lombardi Cancer Center,
 Washington, DC; ²Brown University, Providence, RI;
 ³MedStar Georgetown University Hospital, Washington, DC
- WP 480 Racial Disparity in Bladder Cancer and Identification of Altered Metabolism in African American Compared to European Bladder Cancer; Sri Ramya Donepudi¹; Venkatrao Vantaku¹; Tiffany Dorsey²; Vasanta Putluri³; Suman Maity³; Wei Tang²; Feng Jin³; Danthasinghe Waduge Badrajee Piyarathna³; Kimal Rajapakshe³; MeghaShyam Kavuri³; Vadiraja Bhat⁴; Seth Lerner³; Yair Lotan⁵; Wei Liu⁶; Cristian Coarfa³; Arun Sreekumar³; Stephan Ambs²; Nagireddy Putluri³; ¹Baylor College of Medicine, Houston, TX; ²NIH, Bethesda, MD; ³Baylor College of Medicine, Houston, TX; ⁴Agilent Technologies Inc., Santa Clara, California; ⁵UT Southwestern, Dallas, TX; ⁶Agios Pharmaceuticals, Boston, MA



- WP 481 Mass Spectrometry Analysis of Omega-3 PUFA in RBC, PBMCs, DBS and their Anti-Inflammatory Metabolite;
 Boakye Gyimah¹; Martin R Lindley¹; Mark Platt¹; James Reynolds¹; ¹Loughborough University, Loughborough
- WP 482 Tobacco-specific Carcinogens Induce
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 Ramya Donepudi¹; Vasanta Putluri¹; Vadiraja Bhat³; Preeti
 Purwaha¹; Danthasinghe Waduge Badrajee Piyarathna¹;
 Rashmi Krishnapuram¹; Franklin Gu¹; Suman Maity¹;
 Salil Kumar¹; Chandra Shekar R Ambati¹; Friedrich-Carl
 von Rundstedt¹; Daniel Godde¹; Stephan Roth¹; Stephan
 Storkel¹; George Michaillidis¹; Balasubramanyam Karanam¹;
 Martha Terris¹; Shyam Kavuri¹; Seth Lerner¹; Cristian
 Coarfa¹; Yair Lotan¹; Arun Sreekumar¹; Nagireddy Putluri⁴;

 ¹Baylor College of Medicine, Houston, TX; ²Houston
 Methodist Research Institute, Houston, TX; ³Agilent
 Technologies, Inc., Wilmington, DE; ⁴Baylor College of
 Medicine, Houston, TX
- WP 483 Simultaneous Determination of Key Glycolysis and Tricarboxylic Acid Cycle Intermediates in Fluxomics Studies by DMS-LC/MS/MS; Mary A Piotrowski¹; Darren Dumlao¹; Julie Keefer¹; John Janiszewski¹; Richard Kibbey²; Tiago Alves²; Bradley B Schneider³; Chang Liu³; J. Larry Campbell³; Paul RS Baker³; Yves LeBlanc³; Keith J. Goodman³; Tanya Gamble³; **Pfizer Inc., Groton, CT; **2Yale University, New Haven, CT; **Sciex, Concord, ON, Canada**

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 Ines C. Santos¹; Misty S. Martin¹; Michelle L. Reyes¹;
 Doug D. Carlton Jr. ¹; Zacariah L. Hildenbrand^{2, 3}; Kevin
 A. Schug^{1, 3}; ¹Department of Chemistry and Biochemistry,
 The University of Texas at Arlington, Arlington, TX; ²Inform
 Environmental, LLC, Dallas, TX; ³Affiliate of the Collaborative
 Laboatorires for Environmental Analysis and Remediation,
 The University of Texas at Arlington, Arlington, TX
- WP 485 Distinct Proteome Remodeling of Industrial Saccharomyces Cerevisiae in Response to Prolonged Thermal Stress or Transient Heat Shock; Weidi Xiao¹; Xiaoxiao Duan¹; Yuping Lin²; Qinchen Cao²; Qinhong Wang²; Wenqing Shui².³; ¹College of Life Sciences, Nankai University, Tianjin, China; ²Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, Tianjin, Tianjin; ³iHuman Institute, ShanghaiTech University, Shanghai. China
- WP 486 Development of an Automated Mass Spectrometrybased System to Study Dynamics of Microbial Volatomes; Cheng Hao Chang¹; Pawel L. Urban¹; National Chiao Tung University, Hsinchu, Taiwan
- WP 487 Oral Microbiota in Down Syndrome Individuals:
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 Souza^{1, 2}; Levy Anderson Alves^{1, 3, 4}; Meriellen Dias^{2, 4};
 Fausto Medeiros Mendes¹; Ana Lidia Ciamponi¹; Maria
 Anita Mendes^{2, 4}; ¹Dental School of USP, São Paulo,
 Brazil; ²Universidade de São Paulo USP, Sao Paulo,
 South America; ³Guarulhos University, Guarulhos, Brazil;
 ⁴Dempster Mass Lab- POLI- USP, Sao Paulo, Brazil
- WP 488 Identification of ESKAPE Pathogens by MALDI-TOF
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 Leung¹; William E Fondrie¹; Yohei Doi²; J Kristie Johnson¹;
 Dudley K Strickland¹; Robert K Ernst¹; David R Goodlett¹;
 ¹University of Maryland, Baltimore, Maryland; ²University Of
 Pittsburgh, Pittsburgh, PA
- WP 489 Proteomic Comparisons Between Aspergillus fumigatus Isolates from the International Space Station and Terrestrial Reference Strains; Abby J Chiang¹; Adriana Blachowicz^{2, 3}; Clay C.C. Wang^{3, 4}; Teresa B. Hong¹; Kasthuri

- Venkateswaran²; Markus Kalkum¹; ¹Beckman Research Institute of City of Hope, Duarte, CA; ²Biotechnology and Planetary Protection Group, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA; ³Department of Pharmacology and Pharmaceutical Sciences, School of Pharmacy, University of Southern California, Los Angeles, CA; ⁴Department of Chemistry, Dornsife College of Letters, Arts and Sciences, University of Southern California, Los Angeles, CA
- WP 490 Qualitative and Quantitative Analysis of Hemolytic Toxins from Dinoflagellates Specifically Associated with Fish Kills by Mass Spectrometry; Benjamin L.

 Oyler¹.²; Saddef Haq¹.²; David R. Goodlett³; Allen R. Place²; ¹University of Maryland School of Medicine, Baltimore, MD; ²Institute of Marine and Environmental Technology, University of Maryland Center for Environmental Science, Baltimore, MD; ³University of Maryland School of Pharmacy, Baltimore. MD
- WP 491 Ultra-Rapid Identification of Bacteria by MALDI-TOF
 MS; Tao Liang¹; Young In Lee²; Lisa M Leung¹.²; SUNG
 HWAN Yoon²; Alison J Scott²; Robert K Ernst²; David R
 Goodlett¹; ¹Department of Pharmaceutical Science, School
 of Pharmacy, University of Maryland, Baltimore, Baltimore,
 MD; ²Department of Microbial Pathogenesis, School of
 Dentistry, University of Maryland, Baltimore, MD
- WP 492 MycoDB: New Spectral Database for Identification of Mycobacterium species by MALDI-TOF MS; Kyu H.

 Park¹; Jae-Seok Kim²; Sue Shin³; Taek Soo Kim³; EunKyeong Choi¹; Yongha In¹; Hyung Soon Park¹; Yangsun Kim¹; ¹ASTA, Suwon, South Korea; ²Department of Laboratory Medicine, Hallym University College of Medicine, Chuncheon, South Korea; ³Seoul National University College of Medicine, Jongno-gu, South Korea
- WP 493 Fast Detection of Carbapenemase-Producing
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 Anren Hu¹; Po-Chi Soo¹; Wen-Ping Peng ²; ¹Tzu Chi
 University, Hualien, Taiwan; ²National Dong Hwa University,
 Shoufeng, Taiwan
- WP 494 Proteogenomic Characterization of Escherichia coliATCC8739 used for MALDI-TOF Calibration in VITEK-MS; Frédéric Jauffrit^{1, 2}; Corinne Beaulieu¹; Jean-Pierre Cotte-Pattat³; Victoria Girard³; Martin Welker³; Céline Brochier-Armanet²; Jean-Pierre Flandrois²; Jean-Philippe Charrier¹; *biomerieux, Marcy L'etoile, Rhone-Alpes; *2Université Claude Bernard Lyon-1, Villeurbanne, France; *3Biomerieux, La Balme Les-Grottes, France
- WP 495 Profiling of Small Molecules for the Discrimination of Bacillus cereus and Bacillus thuringiensis by MALDI-TOF MS; Yangsun Kim¹; Miyoung Ha²; Eun-Kyeong Choi³; Yongha In³; ¹ASTA, Suwon, Gyeonggi; ²Nonghyup Food Research Institute, Suwon-si, South Korea; ³ASTA, Suwon, South Korea;
- WP 496 Proteomic Characterization of Particle Content and Infectious Cycle of Pandoraviruses, A Recently Discovered Family of Giant Viruses.; Laure Beucher¹; Elisabeth Fabre²; Lucid Belmudes¹; Matthieu Legendre²; Anne-Marie Hesse¹; Olivier Poirot²; Sandra Jeudy²; Christophe Bruley¹; Jean-Michel Claverie²; Chantal Abergel²; Yohann Couté¹; ¹EDyP UMR1038 Inserm/CEA/UGA, Grenoble, France; ²Information Génomique & Structurale, Unité Mixte de Recherche 7256 (Institut de Microbiologie de la Méditerranée, FR3479) Centre National de la Recherche Scientifique, Marseille cedex 9, France
- WP 497 Identification of Common Food-Borne Pathogens at Species and Sub-Species Level by LC-MS/MS; Shu-Hua Chen¹; Christine H. Parker¹; Timothy R. Croley¹; Melinda A. McFarland¹; ¹U.S. Food and Drug Administration, College Park, MD



- WP 499 Nicotine-Induced Proteome of Arthrobacter nicotinovorans pAO1+; Marius Mihasan^{1, 2}; Cornelia Babii¹; Roshanak Aslebagh²; Costel C. Darie²; ¹Biochemistry and Molecular Biology Laboratory, Faculty of Biology, Alexandru Ioan Cuza University, Iasi, Romania; ²Biochemistry & Proteomics Group, Department of Chemistry & Biomolecular Science, Clarkson University, Potsdam, NY
- WP 500 Quantitative Proteome Analyses of Diverse
 Mycobacterium Tuberculosis Clinical Isolate Strains
 by SWATH-MS; Ben Collins¹; Amir Banaei-Esfahani¹.
 ²; Olga T Schubert¹.³; Andrej Trauner⁴; Sonia Borrell⁴;
 Mireia Coscolla⁴; Sebastien Gagneux⁴; Ruedi Aebersold¹.
 ⁵; ¹Department of Biology, Institute of Molecular Systems
 Biology, ETH Zurich, Zurich, Switzerland; ²PhD Program
 in Systems Biology, University of Zurich and ETH Zurich,
 Zurich, Switzerland; ³Present address: Departments of
 Human Genetics, University of California, Los Angeles,
 CA; ⁴Department of Medical Parasitology and Infection
 Biology, Swiss Tropical and Public Health Institute, Basel,
 Switzerland; ⁵Faculty of Science, University of Zurich,
 Zurich, Switzerland
- WP 501 Mass Spectrometry Imaging and Electron Microscopy of Drip-Flow Generated Biofilm Induced Corrosion;

 Joseph F. Ellis¹; Bin Li¹; Sage J. B. Dunham¹; Justin D. Lange²; Clint M Arnett²; Jonathan V Sweedler¹; ¹Department of Chemistry and the Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, IL; ²Engineer Research and Development Center-Construction Engineering Research Laboratory (ERDC-CERL), Champaign, IL
- WP 502 Metabolite Monitoring of Pseudomonas aeruginosa using Rapid Evaporative Ionization Mass Spectrometry and Applications for Strain Typing and Infection Diagnosis; Emmanuelle E. Bardin¹; Simon J.S. Cameron¹; Alvaro Perdones-Montero¹; Kate Hardiman¹; Eric W.F.W Alton¹; Andrew Bush¹.²; Jane C. Davies¹.²; Zoltan Takats¹; ¹Imperial College London, London, London; ²Royal Brompton and Harefield NHS Foundation Trust, London, UK
- WP 503 Stable Isotope Labeling of Borrelia burgdorferi (SILAB):
 Quantitative Proteomic Analysis of the Agent of Lyme
 Disease; Susan T. Weintraub¹; Trever C. Smith, Jr. ²; Sarah
 M. Helm²; Sammy Pardo¹; Dana Molleur²; J. Seshu²; ¹UT
 Health San Antonio, San Antonio, TX; ²University of Texas
 at San Antonio, San Antonio, TX
- WP 504 Detection and Subtyping of Shiga Toxins (Stx) from Escherichia Coli Culture using Parallel Reaction monitoring; Leanne Scharikow¹.²; Stuart McCorrister¹; Derek Davlut¹; Patrick Chong¹; Morag Graham¹.²; Garrett Westmacott¹; ¹Public Health Agency Canada, Winnipeg, MB; ²University of Manitoba, Winnipeg, MB
- WP 505 pMSGF+: A Two-Stage Database Search Approach Improving Speed and Sensitivity for Metaproteomics Studies; Miin S. Lin¹; Doruk Beyter¹; Vineet Bafna¹; ¹University of California, San Diego, La Jolla, CA
- WP 506 LC-MS Analysis of Extracellular Proteins for the differentiation of Bacillus cereus and Bacillus thuringiensis; Jennifer Brzezinski¹; Geoffrey Kililii¹; Kirk Gaston¹; ¹FDA, Forensic Chemistry Center, Cincinnati, OH
- WP 507 Are Cysteine and Methionine Synthesis Proteins
 Essential for Dormancy in Actinobacteria?; Morgan
 Mitchell¹; Sujina Mali¹; Spencer Havis¹; Abiodun Bodunrin¹;
 Jonathan Rangel¹; Steven Bark¹; William Widger¹;
 ¹University of Houston, Houston, TX
- WP 508 A Proteomic Signature of Dormancy in an Actinobacterium: Micrococcus luteus ; Sujina Mali¹;

- Morgan Mitchell¹; Spencer Havis¹; Abiodun Bodunrin¹; Jonathan Rangel¹; William R. Widger¹; Steven J. Bark¹; ¹University of Houston, Houston, TX
- WP 509 Rapid Characterization of Microbial Samples via Extractive Sampling and Ionization; Mariam S Elnaggar; Prosolia, Inc., Indianapolis, IN
- WP 510 Possible Ribosomal Regulation in the Viable but Non-Culturable State of Micrococcus luteus; Spencer Havis¹; Sujina Mali¹; Morgan Mitchell¹; Abiodun Bodunrin¹; Jonathan Rangel¹; William Widger¹; Steven Bark¹; ¹University of Houston, Houston, TX
- WP 511 Use of Mass Spectrometry in the Hunt for Novel Lytic Bacteriophage Active Against Pathogenic E. coli.; Leslie Harden¹; Yen-Te Liao¹; Anna Bates¹; Vivian Wu¹; ¹USDA/WRRC, Albany, CA
- WP 512 Meta-Proteomics Analysis of a Biofilm Community Reveals Synergistic Interactions in a Microbial Consortium; Zacharias Brimnes Visby Damholt¹; Jakob Herschend²; Andrea Marion Marquard¹; Birte Svensson¹; Søren J. Sørensen²; Per Hägglund¹; Mette Burmølle²; ¹Technical University of Denmark, Lyngby, Denmark; ²University of Copenhagen, Copenhagen, Denmark

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- WP 513 Dynamic Mass Spectrometry Probe for Therapeutic Cell Bio-Reactor Monitoring; Mason Chilmonczyk¹; Peter A. Kottke²; Andrei G. Fedorov²; ¹Georgia Institute of Technology, Atlanta, GA; ²Georgia Institute of Technology, Atlanta
- WP 514 Characterization of Polystyrene and Silica Beads in Submicrometer Range using Flow Filed-Flow Fractionation and Flow Cytometry; Zhishang Hu¹; Chen Ye²; Wei Mi³; Hongmei Li³; Haiying Hang²; ¹NIM, China, Beijing, Beijing, ²IBP, CAS, China, Beijing, China; ³NIM, China, Beijing, China
- WP 515 A Sensitive Microflow LC/MS/MS Method for the Analysis of Fluticasone Propionate in Human Plasma; Angela Doneanu¹; Michael Donegan¹; James Murphy¹; ¹Waters Corporation, Milford, MA
- WP 516 Novel Aspects and Performance Evaluation of a Liquid-El LC-MS Interface; Maurizio Piergiovanni¹; Giorgio Famiglini¹; Pierangela Palma¹; Veronica Termopoli¹; Achille Cappiello¹; ¹University of Urbino, Urbino
- WP 517 Dynamic pH Junction Based Capillary Zone
 Electrophoresis-Mass Spectrometry with Half-aMicroliter Loading Capacity and 140-min Separation
 Window for Bottom-Up Proteomics; Daoyang Chen¹;
 Liangliang Sun¹; Xiaojing Shen¹; ¹Michigan State University,
 East Lansing, MI
- WP 518 Fast Chip-CEMS for Characterization of Protein/PTM Changes; Deborah R Leon¹; Kshitij Khatri¹; Bo Yan¹; John R Hasserick¹; Christian Heckendorf¹; Joseph Zaia¹; Catherine E. Costello¹; Mark E. Mccomb¹; ¹Boston University School of Medicine, Boston, MA
- WP 519 Capillary Electrophoresis and Ion Mobility Coupled to Mass Spectrometry as Complementary Tools for Cysteine Connectivity Identification in Peptides; Cedric Delvaux¹; Philippe Massonnet¹; Christopher Kune¹; Jean R. N. Haler¹; Grégory Upert²; Gilles Mourier²; Nicolas Gilles²; Loïc Quinton¹; Johann Far¹; Edwin De Pauw¹; ¹Mass Spectrometry Laboratory, University of Liège, Liège, Belgium; ²Commissariat à l'Energie Atomique et aux Energies Alternatives, iBiTec-S, SPI, LEMM, Gif Sur Yvette, France
- WP 520 Characterization of Anions by Microchip Capillary Electrophoresis-Negative Electrospray Ionization-Mass Spectrometry; Justin M. Godinho¹; J. Michael Ramsey¹; ¹The University of North Carolina at Chapel Hill, Chapel Hill, NC



- WP 521 A Fully Automated Microchip Capillary Electrophoresis-ESI-MS System for High Throughput Analysis of Metabolites, Peptides, and Intact Proteins; Joshua P. Guerrette¹; Erin A. Redman¹; Michael P Goodwin²; J. Scott Mellors¹; ¹908 Devices, Inc., Carrboro, NC; ²908 Devices Inc., Boston, MA
- WP 522 Ionic Liquid-Based Slug-Flow Microextraction for Ambient Ionization Mass Spectrometry; Yueguang Lv. 2; Qiang Ma1; 1Chinese Academy of Inspection and Quarantine, Beijing, China; 2University of Chinese Academy of Sciences, Beijing, China

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- WP 523 Biomolecular Interactions on Cheese Rinds:
 Pseudomonas vs. Candida; Shilpa Kolachina¹; Emily
 Pierce²; Rachel J. Dutton²; Laura M. Sanchez³; ¹College of
 Engineering, University of Illinois at Chicago, Chicago, IL;
 ²Division of Biological Sciences, University of California San
 Diego,, San Diego, CA; ³Department of Medicinal Chemistry
 and Pharmacognosy, University of Illinois at Chicago,
 Chicago, IL
- WP 524 Natural Product Bioactive Peptide Discovery using PepSAVI-MS; Christine L. Kirkpatrick¹; Nicole C. Parsley²; Leslie M. Hicks²; ¹, Chapel Hill, NC; ²UNC-Chapel Hill, Chapel Hill, NC
- WP 525 Valve Based 2D-UHPLC/QTOF MS Solution for Exploring Natural Products; Guoqiang Liu¹; Yue Song¹; Bo Chen¹; Shan-An Chan²; ¹Agilent Technology, Shanghai, China; ²Agilent Technology, Taipei, Taiwan
- WP 526 MagMASS as a Drug Discovery Platform Screening Actinobacteria for Novel Ligands of Fructose-1,6-Bisphosphatase; Michael D Rush¹; Brian T Murphy¹; Richard B. van Breemen¹; 'University of Illinois at Chicago College of Pharmacy, Chicago, IL
- WP 527 Quantification of Aconite Alkaloids in Chinese Proprietary Medicines by LC-ESI-MS/MS and its Application in Product Safety Evaluation; Ge Xiaowei¹; Yun Zeng¹; Chee-Leong Kee¹; Min-Yong Low¹; ¹Health Sciences Authority, Singapore, Singapore
- WP 528 MS-based Screening of Licorice Extracts for Chemopreventive Agents that Covalently Modify Keap1
 Protein, A Regulator of the Antioxidant Response element; Lingyi Huang¹; Amanda E. Lee¹; Charlotte Simmler¹; Yang Yu¹; Shao-Nong Chen¹; Guido F. Pauli¹; Richard B. van Breemen¹; ¹University of Illinois at Chicago College of Pharmacy, Chicago, IL
- WP 529 Characterization of the Secondary Metabolome of Penicillium using Isotopic Labeling and HPLC-HRMS;

 Thaïs Hautbergue¹.²; Olivier Puel¹; Souria Tadrist¹; Laurent Debrauwer¹.²; Isabelle P. Oswald¹; Emilien L. Jamin¹.²;

 ¹Toxalim (Research Centre in Food Toxicology), Toulouse University, INRA, ENVT, INP-Purpan, UPS, Toulouse, France; ²INRA, Platform MetaboHub-MetaToul-AXIOM, Toulouse, France
- WP 530 Rapid Glucosinolate Detection and Identification using Accurate Mass MS-MS; Mark Berhow; USDA, ARS, NCAUR, Peoria, IL
- WP 531 Qualitative and Quantitative Determination of Cannabinoid Profiles and Potency in Hemp Oil using LC-UV-MS; Mike Adams¹; Annette Roth¹; Sue D'Antonio²; Guannan Li²; John Palmer²; Jamie Dougherty²; Anthony Macherone².³; ¹CWC Labs, Austin, TX; ²Agilent Technologies Inc., Santa Clara, CA; ³Johns Hopkins University School of Medicine, Baltimore, MD
- WP 532 Metabolite Profiling and Localization of Triterpene Glycosides from the Sea Cucumber Eupentacta Fraudatrix; Roman S. Popov¹; Pavel S. Dmitrenok¹; ¹: G.B. Elyakov Pacific Institute of Bioorganic Chemistry,

- Far Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia
- WP 533 Tracking the Bryostatin β-branching Type II Polyketide Synthase "In-action" via Optimized Digestion and nLC-FTMS; Phillip J. McClory¹; Samuel T. Slocum²; Vikram V. Shende¹; David H. Sherman¹; Kristina Hakansson¹;

 ¹University of Michigan, Ann Arbor, MI; ²University of Michigan Medical School, Ann Arbor, MI
- WP 534 Using Multiple Complimentary Analytical Platforms to Investigate Synergistic Relationships between Bioactive Compounds in Natural Herbal Extracts; Phillip Kirkland¹; Alex Yiannikouris¹; 'Alltech, Inc., Nicholasville, KY
- WP 535 Identification of the Surface Abiotic Degradation Products of UK-2A and the Biological Activity

 Relevance; Quanbo Xiong¹; Kyung Myung²; Chenglin Yao²; Paul R. Graupner²; Yelena Adelfinskaya²; John F. Daeuble²; Meyer T. Stacy²; Zachary Buchan²; Nick X. Wang²; Kevin G. Meyer²; ¹Dow AgroSciences, Indianapolis, IN; ²Dow AgroSciences, Indianapolis, IN
- WP 536 Approaches to Monitor Reactions of Small Molecules with Cell Membranes and Peptides with Cell Membranes by Liquid Chromatography-Mass Spectrometry; Hannah M Britt¹; Vian S Ismail¹; John M Sanderson¹; Jackie Mosely¹; ¹Department of Chemistry, Durham University, Durham, UK
- WP 537 Discovering Metabolites Using Molecular networking: Case Studies for Biomarker Discovery from Cystic Fibrosis Sputa and Patient Metabolism of Antihypertensive Drugs; Natalie Castellana¹; Anand Patel¹; Digital Proteomics, LLC., La Jolla, CA
- WP 538 Characterization of Polyphenol Derivatives in Pinus Armandii Franchet by Solvent-Compensation Liquid Chromatography Applied with Energy-Resolved Mass Spectrometry; Pai-Chi Syue¹; Ya-Zhu Zhang¹; Mai-Su Lin¹; Kuo-Lung Ku¹; ¹National Chiayi University, Chiayi City, Taiwan
- WP 539 The Features of the Fragmentations of Rare Starfish
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 Pavel Dmitrenok; G.B. Elyakov Pacific Institute of Bioorganic
 Chemistry, Far Eastern Branch of the Russian Academy of
 Sciences, Vladivostok, Russia
- WP 540 A Rapid Method for Evaluation the Quality of Tea through Screening the Secondary Metabolites by Screen-Printed Carbon Electrode Spray; <u>Che-I Liao</u>¹; Zong-Yi Wu¹; Kuo-Lung Ku¹; ¹National Chiayi University, Chiayi City, Taiwan
- WP 541 A Tale of Two Cultures: Co-culturing of a Fungus with MRSA; Diana Kao¹; Huzefa A. Raja¹; Daniel A. Todd¹; Nadja B. Cech¹; Nicholas H. Oberlies¹; ¹University of North Carolina at Greensboro, Greensboro, NC
- WP 542 Cordyceps: A Biologically Complex Age-Old Fungal Medicine; Chad C. Nelson¹; Krishna Parsawar²; Douglas N. Stevenson¹; *Nu Skin Enterprises, Provo, UT; *2University of Utah, Salt Lake City, UT

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- WP 543 High Throughput Mass Quantitation of Antisense Oligonucleotide (ASO) Impurities for Process Understanding during Drug Development; Bing Guan¹; Christopher J. Miller²; Jessica Stolee¹; ¹Biogen, Cambridge, MA; ²Eurofins Lancaster Laboratories, Inc., Lancaster, PA
- WP 544 Probing the Stoichiometry and Binding Interfaces of Retroviral RNA-Peptide Complexes by Native Top-Down Mass Spectrometry; Eva-Maria Schneeberger¹; Kathrin Breuker¹; 'University of Innsbruck, Innsbruck, Tirol
- WP 545 HRAM-LC/MS3 DNA Adductomic Approach, A
 Comprehensive Methodology to Investigate DNA
 Damage Induced by Nanomaterials; Andrea Carra¹; Silvia
 Balbo¹; Tian Qiu²; Peter W. Villalta¹; Taylor Linn³; Vivian



- Feng³; Christy Haynes²; ¹Masonic Cancer Center, University of Minnesota, Minneapolis, MN; ²University of Minnesota Twin Cities, Chemistry Department, Minneapolis, MN; ³Augsburg College, Chemistry Department, Minneapolis, MN
- WP 546 Stoichiometry of HIV-1 Gag Polyprotein-RNA Complexes as Determined by Native Mass Spectrometry; Samantha H Hinckley¹; Erik D Olson¹; Karin Musier-Forsyth¹; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH
- WP 547 Negative-Ion Mode RNA Top-down Mass Spectrometry for Revealing Interaction Sites within RNA-Protein Complexes; Kevin M Ileka¹; Kristina Hakansson²;

 ¹University of Michigan, Ann Arbor, MI; ²University of Michigan, Ann Arbor, MI
- WP 548 Improved Mapping of Eukaryotic mRNA-binding Regions on Proteins using High Resolution Mass Spectrometry; Meeli Mullari¹; David Lyon¹; Lars Juhl Jensen¹; Michael L Nielsen¹; *NNF CPR, Copenhagen
- WP 549 RNA Modification Mapping Using Mass-to-Charge Dependent Collision Energies on a Synapt G2-S; Peter A. Lobue¹; Balasubrahmanyam Addepalli¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH
- WP 550 A Comparison of Positive and Negative Ion Collision-Induced Dissociation of 2'-O-Modified and Unmodified Phosphorothioate Oligonucleotides; <u>Jaeah Kim</u>1; Michael Bartlett²; ¹University of Georgia, Athens, GA; ²University of Georgia, Athens, GA
- WP 551 LC/MS Oligonucleotide Mass Fingerprinting (OMF)
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 Kumar Gandham¹; Tao Jiang¹; Kerry Salandria¹; Chisom
 Udengwu¹; Ipsita Roymoulik¹; James D. Thompson¹;

 ¹Moderna Therapeutics, Cambridge, MA
- WP 552 Two-Dimensional Liquid Chromatography-Mass Spectrometry for the Characterization of Oligonucleotide Impurities; Stilianos G. Roussis¹; Claus Rentel¹; ¹lonis Pharmaceuticals, Inc., Carlsbad, CA
- WP 553 LC-MS Based Determination of Pseudouridine at Single Nucleotide Resolution in Mammalian Non-Coding RNAs using a Uridine Synthesis Deficient Cell line; Yuka Yamaki¹; Yuko Nobe¹; Hiroshi Nakayama²; Hideaki Ishikawa³; Yoshio Yamauchi¹; Nobuhiro Takahashi³; Toshiaki Isobe¹; Masato Taoka¹; ¹Department of Chemistry, Tokyo Metropolitan Univ., Tokyo, Japan; ²RIKEN Center for Sustainable Resource Science, Wako, Japan; ³Tokyo University of Agriculture and Technology, Fuchyu, Japan
- WP 554 Mass Spectrometry and Next Generation Sequencing Analysis of tRNAs from the Pathogenic Fungi Cryptococcus Neoformans; Mellie Paulines¹; Andrew Holmes²; Todd lowe²; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH; ²University of California, Santa Cruz, Santa Cruz, CA
- WP 555 **Direct identification of miR-451 from plasma using LC- MS**; <u>Babak Basiri</u>¹; Michael Bartlett¹; ¹University of Georgia,
- WP 556 Detection and Mapping of Post-Transcriptional tRNA Modifications in the Radioresistant Bacterium Deinococcus radiodurans; Ruoxia Zhao¹; Patrick A Limbach²; ¹University of Cincinnati, Cincinnati, OH; ²University of Cincinnati, Cincinnati, OH
- WP 557 Using LC/ESI-FTMS to Identify Cellular Damage Products within the RNA of a Radiotrophic Species; Whitney Houser¹; Lauren Schultz¹; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH
- WP 558 Rapid Genotyping of Oenanthe Javanica and Cicuta virosa by Polymerase Chain Reaction Followed by Liquid Chromatography/Mass Spectrometry; Hajime Miyaguchi¹; Tadashi Yamamuro¹; Daisuke Watanabe¹; Hikoto Ohta¹; ¹National Research Institute of Police Science, Kashiwa

- WP 559 LC-MS/MS-based Quantitative Measurement of 8,5'-Cyclopurine-2'-Deoxynucleosides with Small Quantities of DNA; Yuxiang Cui¹; Yinsheng Wang¹;

 1'University of California, Riverside, Riverside, CA
- WP 560 Nonspecific Versus Specific Binding of Amino Acids and Dipeptides to RNA Probed by Electrospray Ionization and Collisionally Activated Dissociation;

 Jovana Vusurovic¹; Kathrin Breuker²; ¹University of Innsbruck, Innsbruck, Austria; ²University of Innsbruck, Innsbruck, Austria
- WP 561 Screening of DNA Adducts Induced by NNK and LPS Combined Exposures via a High Resolution LC-MS3 Adductomic Approach; Andrea Carra¹; Peter W. Villalta¹; Romel P. Dator¹; Laura Maertens¹; Fekadu Kassie¹; Silvia Balbo¹; 'Masonic Cancer Center, University of Minnesota, Minneapolis, MN
- WP 562 A Novel Approach for Detecting and Quantifying DNA Modification Using NanoLC-MS/MS; Ranran Wu¹; Kevin Janssen¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA
- WP 563 Affinity Selection Mass Spectrometry Enables Small Molecule Ribosome Binding Analysis; Thomas O'Connell¹; Justin Stroh¹; Jason Ramsay²; Donna Petersen¹; Paula Loria¹; Bruce Maguire¹; ¹Pfizer, Groton, CT; ²Pfizer Inc, St Louis, MO

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- WP 564 **De Novo Sequencing of Peptides Derived from Scorpion Venom**; Meng Li¹; Yuko P. Y. Lam¹; Peng
 Chen²; Maria van Agthoven¹; Qiong Wu²; Mark P. Barrow¹;
 Hongzheng Fu²; Peter B. O'Connor¹; ¹University of Warwick,
 Coventry, UK; ²Peking University, Beijing, China
- WP 565 Determination of the Prominent Fragment Ions Formed by Hot Electron Capture Dissociation (HECD) of Doubly-Charged Peptides and Tryptic Phosphopeptides; Mark J. Raftery; Bioanalytical Mass Spectrometry, Sydney, NSW
- WP 566 Paleoproteomic Analysis of Early Pleistocene Fossil Remains; Enrico Cappellini¹; Anna Katerina Fotakis¹; Rosa Rakownikow Jersie-Christensen²; David Lyon²; José Víctor Moreno Mayar¹; Maia Bukhsianidze³; Christian D. Kelstrup²; David Lordkipanidze³; Jesper Velgaard Olsen²; Eske Willerslev¹; ¹Natural History Museum of Denmark, University of Copenhagen, Copenhagen, Denmark; ²Novo Nordisk Foundation Center for Protein Research, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark; ³Georgian National Museum, Tbilisi, Georgia
- WP 567 Expansion of the Brachylophosaurus Canadensis Collagen I Sequence and Additional Evidence for the Preservation of Cretaceous Protein; Elena R. Schroeter¹; Caroline J. DeHart²; Timothy P. Cleland³; Wenxia Zheng¹; Paul M. Thomas²; Neil L Kelleher²; Marshall Bern⁴; Mary H. Schweitzer¹; *North Carolina State University, Raleigh, NC; *Northwestern University, Evanston, IL; *3University of Texas at Austin, Austin, TX; *4Protein Metrics Inc., San Carlos, CA
- WP 568 Structural Characterization of Spider PeptidePhα1β
 Using Mass Spectrometry Based Approaches; Kelly
 L. Wormwood¹; Armand G. Ngounou Wetie¹; Marcus V.
 Gomez²; Costel C. Darie¹; ¹Clarkson University, Potsdam,
 NY; ²Institute of Education and Research Santa Casa Belo
 Horizonte-Laboratory of Toxins, Belo Horizonte, Brazil
- WP 569 Rapid and Sensitive Phosphoproteomics on a Modified Q Exactive™ HF; Dorte B. Bekker-Jensen¹; Christian D. Kelstrup¹; Tabiwang Arrey²; Alexander Hogrebe¹; Alexander Harder²; Jesper V. Olsen¹; ¹CPR, University of Copenhagen, Copenhagen, Denmark; ²Thermo Fisher Scientific, Bremen, Germany
- WP 570 Low Dispersion Electrochemical Flow Cell for On-Line LC-EC-MS; Martin Eysberg1; Jean-Pierre Chervet2; Hendrik-Jan Brouwer2; Pablo Sanz de la Torre2; *1Antec Scientific**

- (USA), Boston, MA; ²Antec Scientific, Zoeterwoude, Netherlands
- WP 571 LC-MS Method to Evaluate Incidence Rate of Protein Sequence Variants in Biopharmaceuticals; Heather Oakes¹; Sylwia Jozwiak¹; Marc Feary²; Frances Kenny¹; Steve Flatman¹; James Graham¹; ¹Lonza Biologics, Slough, Berkshire; ²Lonza Biologics, Cambridge, UK
- WP 572 Identification and Localization of Modified Residues in Disulfide-Linked Peptides via CID of Anionic Species;
 Alice L. Pilo¹; Weijuan Tang¹; ¹Merck & Co., Inc, Rahway, NJ
- WP 574 A Systematic and Quantitative Study on Kinetics of Immobilized Trypsin Based Protein Digestion; Xiaojing Shen¹; Daoyang Chen¹; Liangliang Sun¹; Michigan State University, Lansing, MI
- WP 575 SWATHTM-Data Independent Acquisition Strategies for Ultimate Confidence in Peptide Mapping and Post Translational Modifications quantitation for Biotherapeutics Characterization; Sibylle Heidelberger¹; Annu Uppal²; ¹SCIEX, Concord, ON, Canada; ²Sciex, India, Gurgaon, India

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 Vitor Faca¹; Camila Palma¹; Mariana Grassi¹; Guilherme
 Lanfredi¹; Germano Ferreira¹; Carolina Thome¹; Aline
 Poersch¹; ¹Ribeirao Preto Medical School University of Sao
 Paulo, Ribeirao Preto, Brazil
- WP 577 Analysis of Amyloid-Beta Isoform Composition in Human Blood Plasma and Platelets; Anna Bugrova¹; Maria I. Indeykina¹.².³; Natalia V. Zakharova¹; Alexey S Kononikhin²; Stanislav I. Pekov².³; Igor Popov¹.²; Sergey A. Kozin⁴; Eugene (Evgeny) Nikolaev².⁵.6; ¹Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow, Russia; ²Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia; ³Institute for Energy Problems of Chemical Physics of RAS, Moscow, Russia; ⁴Engelhardt Institute of Molecular Biology, Moscow, Russia; ⁵Skolkovo institute of science and technology, Skolkovo, Russia; ⁵Institute of energy problems of chemical physics Russian Academy of Sciences, Moscow,
- WP 578 Quantitation of Low-Level Peptide Impurities in Certified Reference Materials and Incorporation of Ion Mobility Mass Spectrometry for Conformational Isomer Characterization; Bradley Stocks¹; Marie-Pier Thibeault¹; Juris Meija¹; Jeremy Melanson¹; ¹National Research Council Canada, Ottawa, ON, Canada
- WP 579 "Shotgun Microdialysis" with LC-MS3 Quantitation for the Screening of BBB Penetration Properties of Peptide-Based Drugs; Catherine Kramer¹; Mitchell J. Bartlett¹; Evan M. Jones¹; Chris Stagg¹; Robin Polt¹; Torsten Falk¹; Michael L. Heien¹; 'University of Arizona, Tucson, AZ
- WP 580 Development of a Sensitive Method (pM levels) for a Lipidated Peptide in Rat Plasma Using Hybrid Immuno-affinity Purification with LC-MS/MS; Cynthia M. Chavez-Eng¹; Dina Goykhman¹; Yifan Song¹; ¹Merck & Co., Inc, Kenilworth, NJ
- WP 581 Improved Solid-Phase Extraction Protocol and Sensitive Quantification of Six Microcystins in Water using an

- HPLC-orbitrap Mass Spectrometry System; <u>Dilrukshika</u> <u>S. W. Palagama</u>¹; Raymond E West III²; Dragan Isailovic²;

 ¹The University of Toledo, Toledo, OH; ²University of Toledo, Toledo, OH
- WP 582 The Application of Targeted Proteomics for Investigating Organic Cation Transporter Protein Mediated Drug-Drug Interaction Between Rifampicin and Metformin;

 Katya Govender^{1, 2}; John Howard Adamson²; Peter Owira¹;

 ¹University of Kwazulu-Natal, Durban, South Africa; ²Africa Health Research Institute (AHRI), Durban, South Africa
- WP 583 Development of a PRM Method to Quantify HLA Class I Peptides in Leukemia Cells; Laura Herring^{1, 2}; Sally Hunsucker³; Courtney Elliott³; Lee Graves^{1, 2, 3}; Gianpietro Dotti^{3, 4}; Paul Armistead^{3, 5}; *1Department of Pharmacology, UNC-Chapel Hill, Chapel Hill, NC; *2UNC Proteomics Core Facility, UNC-Chapel Hill, Chapel Hill, NC; *3Lineberger Comprehensive Cancer Center, Chapel Hill, NC; *Department of Microbiology and Immunology, UNC-Chapel Hill, Chapel Hill, NC; *5Department of Medicine, UNC-Chapel Hill, Chapel Hill, NC
- WP 584 Improved Quantification of the Therapeutic Peptide
 Liraglutide in Human Plasma; Mark David Platt¹; Damon I.
 Papac¹; ¹ICON Bioanalytical Laboratories, Clinton, NY
- WP 585 Comparison of Mass Spectrometric Immunoassay and Magnetic Beads Assay for Quantitation of Peptide in Rat and Dog Plasma with LC/MS/MS; Ming Wang¹; Yang Xu¹; Tonya Jackson¹; Steven Bucher¹; Danny Choo¹; Helengrace Schuck¹; Xiang Yu¹; James Schiller¹; ¹Pharmacokinetics, Pharmacodynamics and Drug Metabolism, Merck Research Laboratories, Merck & Co., Inc., West Point, PA
- WP 586 HPLC-QqOrbitrap Analyses Reveal a Significant Reduction of Tachykinin and Opioid Neuropeptides Level in PC1 and PC2 Mutant Mouse Spinal Cords; Mouna Saidi¹; Soufiane Kamali¹; Francis Beaudry¹; ¹Université de Montréal, St-Hyacinthe, QC, Canada
- WP 587 Extraction of MC-LR from Serum and its Quantification by LC-ESI-Orbitrap-MS; Rachel K Marvin¹; Dilrukshika S. W. Palagama¹; David Baliu-Rodriguez¹; Bruce S Levison¹; Judy Westrick²; David Kennedy¹; Kenneth Hensley³; Dragan Isailovic¹; ¹University of Toledo, Toledo, OH; ²Wayne State University, Detroit, MI; ³Arkansas College of Osteopathic Medicine, Fort Smith, AR
- WP 588 Understanding Cellular Drug Response by Measuring Apoptosis Pathway Members using the TOMAHAQ assay; Robert A. Everley¹; Kartik Subramanian¹; John A. Bachman¹; Brian K Erickson¹; Alison R. Erickson¹; Matthew J. Berberich¹; Christopher M. Rose²; Jeffery Knott³; Caitlin E. Mills¹; Yvonne Hua¹; Mirra Chung¹; Steven P. Gygi¹; Peter K. Sorger¹; ¹Harvard Medical School, Boston, MA; ²Genentech, Inc., South San Francisco, CA; ³Cell Signaling Technologies, Danvers. MA
- WP 589 A SRM/MRM Based Targeted Proteomics Strategy for Quantification of Potential Biomarkers of TKI Sensitivity in EGFR Mutated Lung Adenocarcinoma; Shivangi Awasthi¹.²; Tapan Maity¹; Xu Zhang¹; Benjamin L. Oyler³; David R. Goodlett²; Udayan Guha¹; ¹Thoracic & Gastrointestinal Oncology Branch, CCR, NCI, Bethesda, MD; ²School of Pharmacy, University of Maryland, Baltimore, MD; ³Institute of Marine and Environmental Technology, University of Maryland Center for Environmental Science, Baltimore, MD
- WP 590 Application of MALDI-TOF-MS for Improvement of Quantitative Determination of α- and β-Asp7 Isoforms of amyloid-β Peptide for Alzheimer's Disease Diagnostics; Stanislav Pekov¹,²; Maria Indeykina²,³; Anna Bugrova³; Alexey Kononikhin¹,²,³,⁴; Igor Popov¹,²; Eugene (Evgeny) Nikolaev¹,²,⁵; ¹Moscow Institute of Physics and Technology (State University), Dolgoprudnyj, Russia; ²Institute for Energy Problems of Chemical Physics of RAS, Moscow, Russia; ³Emanuel Institute of Biochemical Physics of



- Russian Academy of Sciences, Moscow, Russia; ⁴Federal State Budget Institution "Research Center for Obstetrics, Gynecology and Perinatology" Ministry of Healthcare of the Russian Federation, Moscow, Russia; ⁵Skolkovo institute of science and technology, Moscow Region, Russia
- WP 591 Human Tissue Distribution of Carbonyl Reductase 1
 Using Proteomic Approach with LC-MS/MS; Wenyi Hua¹;
 Hui Zhang¹; Sangwoo Ryu¹; Xin Yang¹; Li Di¹; ¹Pfizer Inc.,
 Groton CT
- WP 592 Targeted Proteogenomics of Outer Membrane Vesicles Mediating Antibiotic Resistance Transfer among the Acinetobacter; William Judson Hervey, IV1; Scott A. Walper1; Kendrick B. Turner1; Center for Bio/Molecular Science & Engineering, Naval Research Laboratory, Washington, DC
- WP 593 Middle-Down Analysis of Muropeptides Alteration in Stenotrophomonas maltophilia Cell Wall; Yun Lin¹; Yi-Wei Huang²; Chin Lin³; Yu Wang².⁴; Yi-Tsung Lin⁵.⁶; Tsuey-Ching Yang²; Cheng-Chih Richard Hsu¹; ¹Department of Chemistry, National Taiwan University. Taipei, Taiwan; ¹Department of Biotechnology and Laboratory Science in Medicine, National Yang-Ming University, Taipei, Taiwan; ³School of Public Health, National Defense Medical Center, Taipei, Taiwan; ⁴Department of Laboratory Medicine, Chang Gung Memorial Hospital Linkou Branch, Taoyuan, Taiwan; ⁵Division of Infectious Diseases, Department of Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; ⁵School of Medicine, National Yang-Ming University, Taipei, Taiwan
- WP 594 Rapid Screening of Peptide Impurities in Calcitonin-Salmon Nasal Spray Using Data-Dependent LC-MS-MS; Jingyue Yang¹; Priyanka Chitranshi¹; Ilan Geerlof-Vidavsky¹; Kui Zeng¹; David A. Keire¹; Michael Trehy¹; Wenlei Jiang²; Deyi Zhang²; Xiaohui Jiang²; Daniela Verthelyi³; ¹Division of Pharmaceutical Analysis, Office of Testing and Research, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, St. Louis, MO; ²Office of Research and Standards, Office of Generic Drugs, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, MD; ³Office of Biotechnology Products, Office of Pharmaceutical Quality, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, MD

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- WP 595 Selective Isolation of Tyrosine-Phosphorylated Protein by Magnetic Nanoparticles Composites; Meng-han Liu¹; He-Hsuan Hsiao¹; ¹Department of Chemistry, National Chung-Hsing University, Taichung, Taiwan
- WP 596 Automated High-Throughput Phosphopeptides
 Enrichment using TiO2 Dispersive Pipette Extraction;
 Sunil Hwang¹; Todd Mulis¹; Jingyun lee²; Michael
 Mouridian³; Cristina Furdui²; Andrew Lee¹; ¹Integrated
 Micro-Chromatography Systems, LLC, Irmo, SC;
 ²Proteomics and Metabolomics Shared Resource, Wake
 Forest School of Medicine, Winston-Salem, NC; ³Hamilton
 Robotics, Reno, NV
- WP 597 High-throughput Workflow For Deep Phosphoproteome Analysis; Yun-Chien Chang^{1, 2}; Reta Birhanu Kitata^{1, 3}; Pei-Yi Lin¹; Yu-Ju Chen^{1, 2}; **Institute of Chemistry, Academia Sinica, Taipei, Taiwan; **2Department of Chemistry, National Taiwan University., Taipei, Taiwan; **3Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan
- WP 598 Robust, Sensitive, and Automated Phosphopeptide Enrichment Optimized for Low Sample Amounts Applied to Primary Hippocampal Neurons; Harm Post¹; Renske Penning²; Martin A. Fitzpatrick²; Luc B. Garrigues²; Wei Wu²; Harold D. MacGillavry²; Casper C. Hoogenraad²; Albert J. R. Heck²; A.F. Maarten Altelaar²; ¹, Utrecht, Utrecht; ²Utrecht University, Utrecht, Netherlands
- WP 599 A Combined Enrichment/Enzymatic Approach to Study

- Phosphoproteomics "Dark Matter."; Evgeny Kanshin¹; Mirela Pascariu¹; Mike Tyers¹; Damien D'Amours¹; Pierre Thibault¹; ¹IRIC-Université de Montréal, Montréal, QC, Canada
- WP 600 Enrichment of Phosphopeptides Using Poly-L-Lysine-Encapsulated Sol-Gel Material; Ülkü Güler Tokat¹; Mehmet Atakay²; Haci Mehmet Kayili³.⁴; Bekir Salih²; ¹Hacettepe University, Department of Chemistry, Ankara, Cankaya; ²Hacettepe University, Department of Chemistry, Ankara, Cankaya; ³Department of Chemistry, Çankırı Karatekin University, Çankırı, Turkey; ⁴Department of Nutrition and Dietetics, Karabük University, Karabük, Turkey
- WP 601 SMOAC (Sequential Enrichment from MOAC, "Smoke"), A Phosphoproteomics Enrichment Strategy for the Separation of Multiply Phosphorylated from Monophosphorylate; Jae Choi¹; Sergei Snovida¹; Ryan Bomgarden¹; John C. Rogers ¹; 'Thermo Fisher Scientific, Rockford, IL
- WP 602 Quantitative Phosphoproteomics of the Protein Phosphatase 2 Complex Using the Chip iFunnel QTOF Platform; Paulos Chumala¹; Brooke Thompson¹; Vadiraja Bhat²; Chelsea E. Cunningham³; Frederick S. Vizeacoumar³; Franco J. Vizeacoumar⁴; George S. Katselis¹; ¹CCHSA/Department of Medicine, College of Medicine, University of Saskatchewan, Saskatoon, SK, Canada; ²Agilent Technologies, Inc., Wilmington, DE; ³Department of Pathology, Cancer Cluster, College of Medicine, University of Saskatchewan, Saskatoon, SK, Canada; ⁴Department of Pathology, Cancer Cluster, College of Medicine, University of Saskatchewan and Cancer Research, Saskatchewan Cancer Agency, Saskatoon, SK, Canada
- WP 603 A Simple Assay to Determine the Amount of Titanium Dioxide Required for Maximum Enrichment of Phosphopeptides; Alissa Schunter¹; Jeffrey R. Anderson²; Young Ah Goo¹; Paul Thomas²; Neil L Kelleher²; ¹Northwestern University, Chicago, IL; ²Northwestern University, Evanston, IL

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- WP 604 Characterization of the Adsorption-Desorption Properties of Polystyrene Microspheres Using Paper Spray Mass Spectrometry; Yajun Zheng¹; Teng Wang¹; Xiaoting Wang¹; Zhiping Zhang¹; ¹Xi'an Shiyou University, Xi'an, China
- WP 605 Analysis of nylon-6 by Thermal Desorption and Pyrolysis Combined with DART-MS (TDP/DART-MS) and Pyrolysis-GC/MS; Chikako Takei¹; Kenichi Yoshizawa¹; Hajime Ohtani²; ¹BioChromato, Inc., Fujisawa, Japan; ²Nagoya Institute of Technology, Nagoya, Japan
- WP 606 Energetic Fluorinated Polymers Characterization: Novel Combination of ASAP-Orbitrap MS and Kendrick Mass Defect Analyse; Gabriel Gaiffe¹; Richard B. Cole¹; Sabrina Lacpatia²; Maxime C. Bridoux³; ¹Sorbonne Universités UPMC, Paris, France; ²Laboratoire Central de la Préfecture de Police, Paris, France; ³CEA, DAM, DIF, Arpajon, France
- WP 607 Micelles Protect Hydrophobic Metallo-supramolecules from Water to Electrospray Ionization Mass Spectrometry in Their Native States; Kai-Hung Huang¹; Tsung-Han Tu¹; Shi-Cheng Wang¹; Sheng-Tao Chang¹; Yi-Tsu Chan¹; Cheng-Chih Hsu¹; ¹Department of Chemistry, National Taiwan University., Taipei, Taiwan
- VP 608 Surface Analysis using Solvent-Free Silver-Nanoparticle Surface-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging; Takaya Satoh¹; Naoki Kikuchi¹; Hironobu Niimi¹; Makiko Fujii²; Toshio Seki³; Jiro Matsuo³; Michael H. Frey⁴; ¹JEOL Ltd., Akishima, Japan; ²Yokohama National University, Yokohama, Japan; ³Kyoto University, Uji, Japan; ⁴JEOL USA Inc., Peabody, MA



- WP 609 Structural and Biological Characterization of Degradation Products Generated during Radical Depolymerization of Hyaluronan; Martina Hermannova¹; Dagmar Cozikova¹; Radovan Buffa¹; Kristina Nesporova¹; Vladimir Velebny¹; ¹Contipro a.s., Dolni Dobrouc, Czech Republic
- WP 610 The first Observation of High Mass Distribution of Polyrotaxane using MALDI-TOFMS and a High Mass Detector; Shuuichi Nakaya¹; Kazuaki Kato²; Yuzo Yamazaki¹; Kohzo Ito²; ¹Shimadzu Corporation, Kyoto, Japan; ²Department of Advanced Material Science, Graduate School of Frontier Science, The University of Tokyo, Japan
- WP 611 Why are Electron Ionization Mass Spectra of Phenyl Methyl Cyclosiloxane Polymers So Difficult to Interpret?; Tanya Habitz¹; Ron Tecklenburg¹; Amanda Palumbo¹; ¹Dow Corning Corporation, Auburn, MI
- WP 612 MS/MS Assisted Design to Improve Readability of Messages Chemically Encoded in Sequence-Defined Copolymers; Laurence Charles¹; Gianni Cavallo²; Laurence Oswald²; Rosa Szweda²; Jean-Francois Lutz²; ¹Aix-Marseille University, Marseille Cedex 20, PACA; ²Institut Charles Sadron, CNRS, Strasbourg, France
- WP 613 Determination of the Detailed Electron Ionization Fragmentation Pathways for Triflurorpropyl Containing Siloxane Polymers. Evidence for Si-F Bond Formation; Ron Tecklenburg¹; Tanya Habitz¹; Amanda Palumbo¹; Dow Corning Corporation, Auburn, MI
- WP 614 Analysis of Sequence-Defined Polyester Copolymers by MALDI Tandem Mass Spectrometry; Jialin Mao¹; Chrys Wesdemiotis¹; Wei Zhang¹; Stephen Z.D. Cheng¹; ¹The University of Akron. Akron. OH
- WP 615 Analysis of Positional Poly(Pyridylalkyl Methacrylate) Isomers and Homologs by Fragmentation and Ion Mobility Mass Spectrometry; Michelle Kushnir¹; Chrys Wesdemiotis¹; Marios Elladiou²; Costas S. Patrickios²; ¹University of Akron, Akron, OH; ²University of Cyprus, Nicosia, Cyprus
- WP 616 Effective Method for Lignin Molecular Weight
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 Andrianova¹; Thomas DiProspero¹; Clayton Geib¹; Irina
 P. Smoliakova¹; Evguenii I. Kozliak¹; Alena Kubátová¹;
 ¹Chemistry Department, University of North Dakota, Grand
 Forks. ND
- WP 617 Identification of Novel Print-Related Contaminants in Polymeric Food Packaging; Miguel A. Lago¹; Luke K Ackerman²; ¹University of Santiago de Compostela, Santiago de Compostela, Spain; ²FDA/CFSAN, College Park, MD
- WP 618 Non-Targeted Screening of Extractables and Leachables in E-cigarettes using a Single Platform UPLC-APGC-QTOF-MS; Naren Meruva¹; Baiba Cabovska¹; Steven Lai²; Dimple Shah¹; Kari Organtini¹; Gareth Cleland¹; Kenneth Rosnack¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Beverly, MA
- WP 619 On-Surface Analysis of Oligomeric Intermediates during Bottom-Up Fabrication of Graphene Nanoribbons by Mass Spectrometry; Hans Joachim Raeder¹; Wen Zhang¹; Zongping Chen¹; Klaus Müllen¹; ¹MPI for Polymer Research, Mainz. Germany
- WP 620 Quantitation and Identification of Polysorbates in Protein Matrix; Pengxiang Yang¹; Kerry M Hassell²; Christopher Elicone³; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Somerset, NJ; ³Thermo Fisher Scientific, Franklin, MA
- WP 621 Analytical Uncertainty and Response Factorsfor Extractable and Leachable Analysis using LCMS; <u>Dujuan Lu</u>¹; Kate Comstock²; ¹SGS Life Science Service, Fairfield, NJ; ²Thermo Fisher Scientific, San Jose, CA

- WP 622 Sample Productive Method for Low Boiling Point Compound and Rapid Analysis of Phthalic Acid Esters in DIP/MS using Fragmentless Ionization; Takahisa Tsugoshi¹; Yuji Mishima²; ¹AIST, Tsukuba; ²Kobe Material Testing Laboratory Co., Ltd., Taito-ku, Japan
- WP 623 Single-Use Biobag Extractable Analysis Using LC-HRMS; Colin Barry¹; Kate Comstock²; Darlene Murphy³; ¹Alliance Pharma, Malvern, PA 19355; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, San Jose, CA
- WP 624 Fragmentation Rules of Poly(lactide)s in Collision-Induced Dissociation; Christophe Chendo¹; Marion Rollet¹; Trang Phan¹; Didier Gigmes¹; Laurence Charles¹; ¹Aix-Marseille University, Marseille, France
- WP 625 Profiling Extractables from 3D Printed Structures
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 Maruti Hedge^{1, 2}; Allison M. Pekkanen^{1, 2}; Timothy E Long^{1, 2}; Andrew Baker³; ¹Virginia Tech Department of Chemistry,
 Blacksburg, VA; ²Macromolecular Innovation Institute,
 Blacksburg, VA; ³Waters, Inc., Pleasanton, CA

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- WP 626 A Streamlined Workflow for the Rapid Quantification of Biotherapeutic Antibodies; Michael Rosenblatt¹; Nidhi Nath²; Sergei Saveliev²; Marjeta Urh²; ¹Promega Corp, Madison, WI; ²Promega Corporation, Madison, WI
- WP 627 Quantification of Total Antibody from an ADC in Monkey Plasma using Hybrid LBA-LCMS Techniques: Triple Quadrupole vs HRMS (Orbitrap) Comparison; Eric Ma¹; Mocun Yuan¹; William Mylott¹; Rand Jenkins¹; ¹PPD Laboratories, Richmond, VA
- WP 628 Quantification of a Monoclonal Antibody in Nasal Lavage by LC-MS/MS with Abundant Protein Normalization; Ryan Lutz¹; Daniel S. Spellman¹; Kevin P. Bateman¹; ¹Merck & Co., Inc., West Point, PA
- WP 629 High Sensitivity Quantification of Intact therapeutic Proteins derived from Plasma Using a High-Resolution QTof Mass Spectrometer; Henry Shion 1; Yun Alelyunas2; Gregory Roman2; Nigel Ewing2; Mark Wrona2; Ying-Qing Yu²; Weibin Chen2; 1Waters Corp, Milford, MA; 2Waters Corp, Milford, MA
- WP 630 Statistical Characterization of Therapeutic Protein Modifications; Tsung-Heng Tsai¹; Zhiqi Hao²; Qiuting Hong². ³; Benjamin Moore²; Cinzia Stella²; Jeffrey H. Zhang²; Yan Chen²; Michael Kim²; Theo Koulis²; Gregory A. Ryslik²; Erik Verschueren²; Fred Jacobson²; William E. Haskins²; Olga Vitek¹; ¹Northeastern University, Boston, MA; ²Genentech, Inc, South San Francisco, CA; ³Eurofins Lancaster Laboratories, Inc., Lancaster, PA
- WP 631 Software Platform for Automated Peptide Mapping:
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 Gotta²; Maurizio Bronzettii¹; Cassandra Wigmore¹; Arnd
 Brandenburg²; ¹Genedata Inc, Lexington, MA; ²Genedata
 AG, Basel, Switzerland
- WP 632 Evaluation of Coated Microplates for Recovery of Therapeutic Proteins and Peptides; Bao-Jen Shyong¹; Ryan Lutz¹; Daniel S. Spellman¹; KEVIN P. Bateman¹;

 Merck Research Labs, Merck & Co., West Point, PA
- WP 633 Development of an Affinity Capture-LC-MS/MS Assay for the Quantitation of Adalimumab in Human Plasma using BioBA sample preparation kit; <u>Jean-François Dupuis</u>¹; Kevork Mekhssian¹; Ian Moore²; Anahita Keyhani¹; ¹Altasciences, Laval, QC, Canada; ²SCIEX, Concord, ON, Canada, Canada
- WP 634 Robust sub-ng/mL Sensitivity for Protein Biotherapeutics Quantification without Immunoaffinity



- Enrichment, using a Novel and Universally-Applicable
 Dual-Mechanism Enrichment Strategy; Bo An¹; Ming
 Zhang¹; Yang Qu¹; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY
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 Identification and Quantification of Post-Translational
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 Spectral Library; Qian Dong¹; Xinjian Yan¹; Yuxue Liang¹;
 Yuri Mirokhin¹; Sanford P. Markey¹; Tallat Bukhari¹; Stephen
 E Stein¹; ¹NIST, Gaithersburg, MD
- WP 636 MRM Assays to Assess Presence of a Host Cell Protein Contaminant Impacting Monoclonal Antibody Drug Product Stability; Lie Min¹; Josephine Chiu¹; Kelvin H. Lee¹; ¹Department of Chemical and Biomolecular Engineering and Delaware Biotechnology Institute, University of Delaware, Newark, DE
- WP 637 Sensitive and Robust Quantitation of Intact Monoclonal Antibody using A Newly Developed Q-TOF Instrument;

 Alex ZHU¹; David Wong²; Aaron boice²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Santa Clara, CA
- WP 638 Enhanced Detection Sensitivity of Protein Therapeutics in Human Serum using Multi-Nozzle Emitters Coupled with capillary UPLC Quantiva; Yao-Yun Fan¹; Jianxia Shi¹; Pan Mao²; Geuncheol Gil²; Daojing Wang²; Dan Rock¹; Ji Ma¹; ¹Amgen, South San Francisco, CA; ²Newomics Inc., Emervville. CA
- WP 639 Regulated LC/MS/MS Bioanalysis of Therapeutic Antibodies Based on Nano-Surface and Molecular-Orientation Limited (nSMOL) Proteolysis Method using a New Reagent Kit; Toshiya Matsubara¹; Noriko Iwamoto²; Deepti Bhandarkar³; Masateru Oguri¹; Rashi Kochhar³; Takashi Shimada²; Ichiro Hirano¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Shimadzu Corporation, Chuo-ku, Japan; ³Shimadzu Analytical India Pvt. Ltd., Mumbai, Maharashtra
- WP 640 Direct Quantitation of Intact mAb PTM Using Ultra High Resolution LC-MS SIM; Xiaomei (Annie) He¹; Wanlu Qu¹; Chen Li¹; Janet Lau¹; Dongdong Wang¹; Billy Wu¹; ¹BioAnalytix, Cambridge, MA
- WP 641 Simultaneous Quantitation and Catabolite Identification of Intact Proteins in Biological Samples using LC-HRMS; Lijuan Kang¹; Naidong Weng¹; Wenying Jian¹;

 ¹Janssen Research&Development, Spring House, PA
- WP 642 Targeted, Site-specific Quantitation of N- and O-Glycopeptides of Biologics using 18O-Labeling and Product Ion Based Mass Spectrometry; Jandhyam Srikanth¹; Rathinasamy Agalyadevi¹; Ponnusamy Babu¹; Annu Uppal²; ¹National Centre for Biological Sciences, Glycomics and Glycoproteomics & Biologics Characterization Facility, Bangalore, India; ²SCIEX, Gurgaon, India
- WP 643 A Simple Workflow for Monoclonal Antibody N-Glycan Analysis by LC-FLD-SQ; Oscar Potter¹; Gregory O. Staples¹; Maggie Ostrowski¹; Hongfeng Yin¹; Kevin Killeen¹; ¹Agilent Technologies, Santa Clara, CA
- WP 644 Improved Multiplexed Comparative Analysis of Intact Glycopeptides from Imiglucerase and Velaglucerase Alfa using ETD and SPS MS3; Hongbin Zhu¹; Chen Qiu¹; David A. Keire¹; Hongping Ye¹; Division of Pharmaceutical Analysis, Office of Testing and Research, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, St. Louis, MO
- WP 645 Monitoring Changes in Glycosylation during the Production of Biotherapeutics in Plants Butyrylcholinesterase (BChE) Expressed in Tobacco and Rice Systems; Muchena J. Kailemia¹; Jasmine M. Corbin¹; Salem Al-Kanaimsh¹; Qiongyu Li¹; Kalimuthu Karuppanan¹; Li Yanhong¹; Raymond L. Rodriguez¹; Xi Chen¹; Somen Nandi¹; Karen McDonald¹; Carlito B. Lebrilla¹; ¹University of California, Davis, Davis, CA
- WP 646 Absolute Quantitation of Host Cell Proteins in Biopharmaceutical Samples using a One-Dimensional

- Data Independent Acquisition LC-MS Strategy; Søren Heissel¹; Jakob Bunkenborg²; Thomas Kofoed²; Marie Grimstrup²; Anne Fich Holmbjerg³; Max Per Kristiansen³; Ingrid Kromann³; Ejvind Mørtz²; Peter Højrup¹; ¹University of Southern Denmark, Odense M; ²Alphalyse A/S, Odense, Denmark; ³Statens Serum Institut, Copenhagen, Denmark
- WP 647 LC-MS Based HCP Monitoring During Biologic Downstream Process Development; Chen Li¹; Wanlu Qu¹; Serah Liu¹; Shiaw-Lin Wu¹; Fengqiang Wang²; Yan-Hui Liu²; Doug Richardson²; Daisy Richardson²; ¹BioAnalytix, Inc., Cambridge, MA; ²Merck & Co., Inc, Kenilworth, NJ
- WP 648 An Improved, Selective Trapping Micro-LC/MS for Ultra-Sensitive, Robust and High-Throughput Quantification of Biotherapeutics and Biomarkers in Plasma and Tissues; Bo An¹; Ming Zhang¹; Yang Qu¹; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY
- WP 649 Development of a Multi-Peptide Immunocapture LC-MS/MS Assay for the Quantitation of a Pegylated Therapeutic in Rat and Dog Plasma; Kevork Mekhssian¹; Jean-François Dupuis¹; Olivier Didur²; William Ruddock²; Anahita Keyhani¹; ¹Algorithm Pharma, Laval, QC, Canada; ²ITR Laboratories, Montreal, QC, Canada
- WP 650 Quantification of Calmodulin Like Protein using Immobilized Metallic Affinity Chromatography on the AB SCIEX Triple TOF 5600+; Mathew Hautman¹; Yong Xi Li¹; Yan Ke¹; Nelson Santiago¹; **Medpace Inc., Cincinnati, OH
- WP 651 Quantification of Grass Pollen and Mite Allergens by Mass Spectrometry: ICH Validated Methods Applied to Immunotherapy Drug Products; Emmanuel Nony¹; Maxime Le Mignon¹; Armelle Martelet¹; Matthieu Rouet¹; Sandrine Riandé¹; Christel Dayang¹; Philippe Moingeon¹; ¹Stallergenes Greer, Antony, France
- WP 652 An Epitope Imprinting Method for Specific Purification of Targeted Proteins; Chao-Yu Hsiao¹; He-Hsuan Hsiao¹;

 ¹Department of Chemistry, National Chung-Hsing University,
 Taichung, Taiwan
- WP 653 Versatile Enzyme Activity Assay of a PEGylated Cyst(e) inase in Mammalian Sera Using LC-MS/MS; Laurence M.

 Brill¹; Susan Alters²; Everett Stone³; Michael H. Buonarati¹;
 Dale Schoener¹; ¹Intertek Pharmaceutical Services, San
 Diego, CA; ²Aeglea Biotherapeutics, Austin, TX; ³University
 of Texas, Austin, TX
- WP 654 Determination of Ligand Number and Distribution in Intact Protein Conjugates with High Mass MALDI-TOF-MS; Christopher C. Lai¹; James A. Kelley¹; Yongdong Wang²; Don Kuehl²; ¹National Cancer Institute-Frederick, Frederick, MD; ²Cerno Bioscience, Norwalk, CT
- WP 655 Accurate Quantification of Trisulfide Bond Linkage Present in a Model Protein using Low pH Digestion Condition; Tasneem Bahrainwala¹; Mandy Xie¹; Nicholas Bond²; Brian Russell¹; Timothy Pabst¹; Xiangyang Wang¹; **Medimmune IIc, Gaithersburg, MD; **Medimmune IIc, Cambridge, UK
- WP 656 Overcoming Challenges Encountered During LC-MS and LC-MS/MS Stability Analysis of Co-Formulated Proteins and Peptides; JASON X. TANG¹; Amber Peariso¹; ¹Eli Lilly & Company, Branchburg, NJ
- WP 657 Improved Sensitivity for LC-MS Quantitation of Biologics in Plasma using Trap-and-Elute MicroLC-MS; Remco van Soest'; Khatereh Motamedchaboki'; Sibylle Heidelberger²; Ian Moore²; 'SCIEX, Redwood City, CA; 'Sciex, Concord, ON, Canada
- WP 658 An Automated Procedure for the Optimization of High Resolution Accurate Mass Processing Methods for Quantitative Bioanalysis; Keeley Murphy¹; Iman Mohtashemi²; Mark Sanders²; Jonathan L. Josephs²; ¹Thermo Fisher Scientific, Cambridge, MA; ²ThermoFisher, San Jose, CA



- WP 659 Development of Bioanalytical Method for Determination of Intact Human Insulin from Plasma using LC/MS/
 MS; Deepti Bhandarkar¹; Ashutosh Shelar¹; Vikas Trivedi²; Tulsidas Mishra²; Abhishek Gandhi²; Swati Guttikar²; Toshiya Matsubara³; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ²Veeda Clinical Research Pvt. Ltd., Ahmedabad, India; ³Shimadzu Corporation, Kyoto, Japan
- WP 660 Comparison of Innovator and Biosimilar Filgrastim Through LC-MS/MS, IM-MS and Gas-phase Unfolding Data Analysis; Jukyung Kang¹; Yuwei Tian¹; K. Ilker Sen²; Eric Carlson²; Brandon T Ruotolo¹; Anna Schwendeman¹; ¹University of Michigan, Ann Arbor, MI; ²Protein Metrics Inc., San Carlos. CA
- WP 661 Molecular Properties Based LC-MS/MS Method
 Development for Quantitative Analysis of Therapeutic
 Proteins; Jing Man Wong¹; Xiaomeng Shen¹; Dan Rock¹;
 Jianxia Shi¹; ¹Amgen, South San Francisco, CA
- WP 662 A Promising Alternative to SRM-Very-High-Resolution Selected-Ion- Monitoring (vHR-SIM@500k) Enables Ultra-Sensitive and Selective Biotherapeutics Quantification; Bo An¹; Ming Zhang¹; Yuan-ju Chen¹; Jun Qu¹; 'SUNY at Buffalo, Buffalo, NY

PROTEOMICS: INFECTIOUS DISEASES 663 - 676

- WP 663 Identification of Tissue-Specific Antigens of Taenia Solium Cysts through Quantitative Multiplexed Proteomics; Jose Navarrete-Perea¹; Marta Isasa²; Joao Paulo²; Ricardo Corral-Corral³; Jeanette Flores-Bautista¹; Gladis Fragoso¹; Raul J. Bobes¹; Edda Sciutto¹; Xavier Soberon⁴; Steven Gygi²; Juan P. Laclette¹; ¹Institute for Biomedical Research, UNAM, Mexico City, México, D.F.; ²Harvard Medical School, Boston, MA; ³Institute for Cellular Physiology, Mexico City, Mexico; ⁴Institute for Biotechnology, UNAM, Cuernavaca, Mexico
- WP 664 Proteogenomics Reveals Strain-Specific Peptides from Clinical Isolates of Mycobacterium Tuberculosis in South African Populations; Tiaan D. J. Heunis¹; Anzaan Dippenaar¹; Paul D. van Helden¹; Nicolaas C. Gey van Pittius¹; Arnab Pain²; Robin M. Warren¹; Samantha L. Sampson¹; David Lee Tabb¹; ¹Stellenbosch University Faculty of Medicine and Health Sciences, Cape Town, South Africa; ²King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
- WP 665 A Targeted Mass Spectrometry Assay for Detection of HIV Gag Protein Following Induction of Latent Viral reservoirs; Daniela M Schlatzer¹; Aiman A. Haqqani²; Xiaolin Li²; Mark R. Chance²; John C. Tilton²; ¹Case Western Reserve University, Cleveland, OH; ²Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland. OH
- WP 666 Identifying Toll-Like Receptor 2 Protein Interaction Partners using Quantitative Proteomics; Abu Hena M Kamal¹; Saiful M. Chowdhury¹; ¹University of Texas at Arlington, Arlington, TX
- WP 667 Rapid and Accurate Differentiation of Mycobacterium tuberculosis (Mtb) Complex to the Species Level by Utilizing High-Resolution Liquid Chromatography-Orbitrap™ Mass Spectrometry; Suraj Saraswat¹; Amol O. Bajaj¹; Ping F. Yip²; Scott R. Kronewitter²; Adam P. Barker¹; ¹ARUP Lab, Salt Lake City, UT; ²Thermo Fisher Scientific, Cambridge. MA
- WP 668 Rapid and Accurate Differentiation of Mycobacterium Abscessus Complex Isolates to the Species Level by High-Resolution Liquid Chromatography-Orbitrap™ Mass Spectrometry Assay; Amol O. Bajaj¹; Suraj Saraswat¹; Ping F. Yip²; Scott R. Kronewitter²; Adam P. Barker¹; ¹ARUP Laboratories, Salt Lake City, UT; ²Thermo Fisher Scientific, Cambridge, MA

- WP 669 Application of Multiplexed Ion Mobility MS for Identification of Host Response Protein Signatures of Treatment of Pulmonary Tuberculosis; Komal Kedia¹; Jason Wendler¹; Erin S. Baker¹; Aaron T. Wright¹; Paul D Piehowski¹; Marina A Gritsenko¹; Richard D. Smith¹; Leah G. Jarsberg²; David M. Lewinsohn³; Marc H. Weiner⁴; Payam Nahid²; Jon M. Jacobs¹; ¹PNNL, Richland, WA; ²UCSF, San Francisco, CA; ³Oregon Health & Science University, Portland, OR; ⁴Univerity of Texas Health Science Center., San Antonio, TX
- WP 670 Time-resolved Global and Chromatin Proteomics during Herpes Simplex Virus (HSV-1) Infection;

 Katarzyna Kulej¹,²; Daphne C. Avgousti¹,²; Simone Sidoli³,⁴; Christin Herrmann²,⁵; Ashley N. Della Fera²; Eui Tae Kim¹,²; Benjamin A. Garcia³,⁴; Matthew D. Weitzman¹,²; ¹Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; ²Division of Cancer Pathobiology, Children's Hospital of Philadelphia, Philadelphia, PA; ³Department of Biochemistry and Biophysics, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; ⁴Epigenetics Institute, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; ⁵Cell and Molecular Biology Graduate Group, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA
- WP 671 Toward Detection of Toxoplasmosis Reactivation from Urine Using Hydro-Gel Nanoparticles and Parallel Reaction Monitoring on an Orbitrap Fusion Mass Spectrometer; Paul Russo¹; Hannah Steinberg²; Alessandra Luchini¹; Emanuel Petricoin¹; Lance Liotta¹; Robert H. Gilman²; Toxoplasmosis Working Group Universidad Peruana Cayetano Heredia³; ¹George Mason University, Manassas, VA; ²Johns Hopkins University, Baltimore, MD; ³Toxoplasmosis Working Group at Universidad Peruana Cayetano Heredia, Lima, Peru
- WP 672 The DNA Sensor IFIX Suppresses Viral Gene Transcription during HSV-1 Infection and is Counteracted by Virus-Induced Proteasomal Degradation; Marni Crow¹; Ileana Cristea¹; ¹Princeton University, Princeton, NJ
- WP 673 Deciphering Human Sirtuin 3 Antiviral Functions and its Dynamic Regulation of the Mitochondria Acetylome during Infection; Xinlei Sheng; Princeton University, Princeton, NJ
- WP 674 A Chemical Proteomic Strategy to unravel the Infectious Zika Virus Entry into Host Cells; Mayank Srivastava¹; Andrew Miller¹; Yuan Zhou¹; Richard Kuhn¹; Andy Tao¹; Purdue University, West Lafayette
- WP 675 Putative Antimicrobial Peptides in the Lobster, Homarus americanus: Identification Using Top-Down and Bottom-Up Proteomics Coupled with Transcriptomics; <u>Daniel Do</u>1; Giap H. Vu¹; Patsy S. Dickinson¹; Andrew E. Christie²; Elizabeth A. Stemmler¹; ¹Bowdoin College, Brunswick, ME; ²University of Hawaii at Manoa, Honolulu, Hawaii
- WP 676 Divergent and Coordinated Immune-Regulatory Roles of the Viral DNA Sensors IFI16 and cGAS during Viral Infection; Krystal K Lum¹; Benjamin A Diner¹; Bokai Song¹; Ileana M Cristea¹; ¹Princeton Universitry, Princeton, NJ

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- WP 677 Nucleotide Ligand Binding and Exchange in Recombinant KRAS Using Native Mass Spectrometry;

 Hemanth Akkiraju¹; Anna Kaplan¹; Lewis M. Brown¹; Brent R. Stockwell¹: ¹Columbia Universitv. New York . NY
- WP 678 Separation and Identification of Mouse Brain Microproteins using Top-down Method with High Resolution Nanocapillary Liquid Chromatography Mass Spectrometry; Wenxue Li¹; Filomena Petruzziello¹; Nan



- Zhao²; Huiyuan Zhao²; Xueting Ye²; Xiaozhe Zhang²; Gregor Rainer¹; ¹University of Fribourg, Fribourg, Switzerland; ²Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- WP 679 Quantification of Proteoforms and Construction of Proteoform Families; Michael R. Shortreed¹; Anthony J. Cesnik²; Brian L. Frey²; Leah V. Schaffer²; Rachel A. Knoener²; Mark Scalf²; Lloyd M. Smith²; ¹University of Wisconsin, Madison, WI; ²University of Wisconsin, Madison, WI
- WP 680 Method Development for Comprehensive Two Dimensional Liquid Chromatographic Separation and Triple Quadrupole Mass Spectrometric Quantitation of Intact Proteins; Dananjaya Kalu Appulage¹; Yehia Z Baghdady¹; Evelyn H Wang²; Jorge Smith²; Ty Kahler³; Kevin A. Schug¹; ¹University of Texas at Arlington, Arlington, TX; ²Shimadzu Scientific Instruments, Columbia, MD; ³Restek Corporation, Bellefonte, PA
- WP 681 High Sensitivity and Accurate Mass Analyses of Intact Human Endogenous Proteins Produced Innaïve CD4 Cells using Nano Flow LC-MS; Jason X. Tang¹; Kyoung-soo Choi¹; Stuart Bright¹; Chetan Patel¹; ¹Eli Lilly & Company, Branchburg, NJ
- WP 682 Elucidating E. coli Proteoform Families Using a Global PTM Discovery Database and Intact-mass Proteomics; Yunxiang Dai¹; Robert J. Millikin¹; Anthony J. Cesnik¹; Michael R. Shortreed¹; Mark Scalf¹; Brian L. Frey¹; Lloyd M. Smith¹; **IUniversity of Wisconsin-Madison, Madison, WI
- WP 683 Using Random Sampling Statistics to Model Protein Isotope Distributions; Zachary Philip Gotlib¹; Peter T. A. Reilly²; ¹Washington State University, Pullman, WA; ²Washington State University, Pullman, WA
- WP 684 Evidence for Glycation/Glycosylation of Low Molecular Weight Gluten Polymer Subunits in Wheat Kernels; Ray Bacala^{1, 2}; Hélène Perreault²; Dave Hatcher¹; ¹Canadian Grain Commission, Winnipeg, MB; ²Department of Chemistry, University of Manitoba, Winnipeg, MB
- WP 685 High Resolution LC-ESI-MS of Intact Wheat High Molecular Weight Glutenin Subunits (HMWGS) Reveals Unexpected Heterogeneity; Katherine Cordova¹; Ray Bacala¹; Dave Hatcher¹; ¹Canadian Grain Commission, Winnipeg, MB
- WP 686 Dynamic pH Junction Based Capillary Zone
 Electrophoresis-Mass Spectrometry with Half-aMicroliter Loading Capacity for Top-Down Intact
 Protein Characterization; Eli McCool¹; Rachele Lubeckyj¹;
 Liangliang Sun¹; ¹Department of Chemistry, Michigan State
 University, East Lansing, MI

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- WP 687 Whole and Phosphoproteome Analysis of Epithelial to Mesenchymal Transition in ES Derived RPE; Joseph Leo Mertz¹; Srinivas R Sripathi¹; Xue Yang¹; David Clark¹; Lijun Chen¹; Noriko Esumi¹; Hui Zhang¹; Donald J Zack¹; ¹Johns Hopkins University School of Medicine, Baltimore, MD
- WP 688 Systematic Proteome Profiling by DIA-MS to Characterize Calorie Restriction-Induced Life Span Extension in Yeast; Lindsay K Pino¹; Matt Kaeberlein¹; Andrew N. Hoofnagle¹; William S Noble¹; Michael J MacCoss¹; ¹University of Washington, Department of Chemistry, Seattle, WA
- WP 689 Quantitative Temporal Proteomics Analysis of Murine Bone Marrow Macrophages and RAW264.7 Cells in Osteoclast Differentiation; Andrew Ng¹; Chengjian Tu²-³; Shichen Shen³, ¹; Jun Li²-³; Jun Qu²-, ³, ⁴; Shuying Yang⁵; ¹Department of Oral Biology, School of Dental Medicine, University at Buffalo, State University of New York, Buffalo, NY; ²Department of Pharmaceutical Sciences, University at Buffalo, State University of New York, Buffalo, NY; ³New

- York State Center of Excellence in Bioinformatics and Life Sciences, Buffalo, NY; ⁴Department of Biochemistry, School of Medicine and Biomedical Sciences, University at Buffalo, State University of New York, Buffalo, NY; ⁵Department of Anatomy and Cell Biology, School of Dental Medicine, University of Pennsylvania, Philadelpha, PA
- WP 690 Quantitative Proteomics Analysis of Heat Shock Proteins Involved in Unfolded Protein Response in Glioblastoma Cell Lines Induced by Different Drugs;

 Jose Cesar Rosa¹; Helen Julie Laure¹; Carolina Thome¹;

 Germano Ferreira¹; Suely K.N. Marie²; Sueli Oba Shinjo²;

 Clarice Izumi¹; ¹Medical School of Ribeirao Preto University of Sao Paulo, Ribeirao Preto, SP; ²Medical School of Sao Paulo University of Sao Paulo, Sao Paulo, Brazil
- WP 691 Quantitative Profiling of Snake Venom using TMT Protein Labeling and Top-Down Mass Spectrometry;

 <u>Dahang Yu</u>¹; Zhe Wang¹; Hongyan Ma¹; Si Wu¹; ¹University of Oklahoma, Norman, OK
- WP 692 Quantification of Metabolic Enzymes in the IDH1/2
 Metabolic Pathways of Glioma Tissue using PRM;
 Lennard J.M. Dekker¹; Suying Wu¹; Johan M. Kros¹; Dana
 Mustafa¹; Theo M. Luider¹; ¹Erasmus Medical Center,
 Rotterdam, Zuid Holland
- WP 693 Temporal Transcriptomic and Proteomic Landscapes of Pancreatic Islets in Type 2 Diabetic Rats; Junjie Hou¹; Zonghong Li²; Wen Zhong³; Qiang Hao¹; Dongyu Zhao¹; Lei Lei¹; Linlin Wang¹; Pingyong Xu¹; Yifa Zhou²; You Wang¹; Tao Xu¹; ¹Institute of Biophysics, CAS, Beijing, China; ²Northeast Normal University, Changchun, China; ³HuaZhong University of Science and Technology, Wuhan, China
- WP 694 Enhanced Analysis of Host Cell Proteins from CHO cell cultured mAb using LC/MS; Linfeng Wu¹; Jordy J. Hsiao¹; Te-Wei Chu¹; Pat Perkins¹; 'Agilent Technologies, Santa Clara, CA
- WP 695 Targeted Quantification of Protein Phosphorylation in the Epidermal Growth Factor Receptor Signaling Pathway; <u>Lian Yi</u>¹; Tujin Shi²; Fillmore L Thomas²; Marina A Gritsenko²; Yuqian Gao²; Tao Liu²; Richlard D Smith²; Steven H Wiley²; Wei-Jun Qian²; ¹, Richland, WA; ²PNNL, Richland, WA
- WP 696 Organ-Level Proteomics of Systemic Infection
 Illuminates Dynamic Responses in a Mouse Model; John
 Lapek¹; Robert Mills¹; Ronnie Fang¹; Brian Luk¹; Liangfang
 Zhang¹; Rob Knight¹; David Gonzalez¹; ¹UCSD, La Jolla, CA
- WP 697 Quantitative Proteomic Approach Reveals Landscape of the Regulatory Elements for Lysineβhydroxybutyrylation Pathway; He Huang¹; Di Zhang¹; Yingming Zhao¹; ¹University of Chicago, Chicago, IL
- WP 698 Quantitative Multi-omics Characterization of Gemcitabine-induced Apoptosis and Resistance in Human Pancreatic Cancer Cells; Xiaofang Zhong¹; Ling Hao¹; Jillian Johnson¹; Dustin Frost¹; Amanda Buchberger¹; John Kao²; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI; ²Hong Kong University of Science and Technology, Hong Kong, China
- WP 699 Characterizing Signaling Networks Associated with AMPK Activation in Human Myotubes by Isobaric Chemical Labeling Quantitative Phosphoproteomics; Chuong Nguyen¹; Maryann Whitley²; Russell Miller²; Kimberly Cameron²; Ravi Kurumbail³; Kieran Geoghegan³; ¹Pfizer, Groton, CT; ²Pfizer, Cambridge, MA; ³Pfizer, Groton, CT
- WP 700 Quantitative Proteomic Analysis of Glucose Fasting Prior to Tandem Anti-Autophagy and Chemotherapy Treatment in Colorectal Cancer; Monica Schroll¹; Gabriel LaBonia¹; Amanda B. Hummon¹; ¹University of Notre Dame, Notre Dame, IN
- WP 701 3D Imaging and Quantitative Proteomic Characterization of Bladder Stones and their Matrix Investigating a Cystinuria Mouse Model; Tiffany Zee¹;

- Sruthi Damodar¹; Bradford W Gibson^{1, 2}; Marshall Stoller³; Pankaj Kapahi¹; Birgit Schilling¹; ¹Buck Institute for Research on Aging, Novato, CA; 2Amgen, South San Francisco, CA; ³University of California, San Francisco, San Francisco, CA
- WP 702 **Functional Consequences of Mutations in the** Mammalian Target of Rapamycin Signaling Cascade; Cassandra Wong^{1, 2}; Geoffrey Hesketh¹; Anne-Claude Gingras^{1, 2}; ¹Lunenfeld-Tanenbaum Research Institute, Toronto, ON, Canada; ²Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada
- WP 703 Quantitative Proteomics in a Non-Sequenced Vole Model: Insights into the Role of Brown Adipose Tissue Against Obesity; Margaux Benhaim-Delarbre1; Barbara Henning²; Georg Tascher¹; Pierre Bize³; Fabrice Bertile¹; ¹Institut Pluridisciplinaire Hubert Curien, CNRS, LSMBO. Université de Strasbourg, Strasbourg, France: ²Brazilian Institute of Neuroscience and Neurotechnology (BRAINN), University of Campinas, Brazil, Campinas, Brazil; ³Institute of Biological and Environmental Sciences, University of Aberdeen, Aberdeen, UK
- **Gender-Specific Protein Expression of Lymphoblasts** using Label Free LC/MS/MS; Kathleen C Lundberg1; Nicholas Szoko²; Daniela M Schlatzer³; Marvin R Natowicz²; ¹Case Western Reserve University, Cleveland, OH; ²Cleveland Clinic Foundation, Cleveland, Ohio; ³Case Western Reserve University, Cleveland, OH
- WP 705 Proteomic Storage Study of Priobiotics; Barbara S. Larsen¹; Ron Agee²; Michael Dauner³; Kurt Fenster²; Chris Hollard²; Cathy Kalbach³; Sunny Li³; Buffy Stahl²; Tom Mower³; Alexander Kopatsis³; Corban Rivera³; ¹The DuPont Company, Wilmington, DE; ²DuPont, Madison, Wi; ³DuPont, Wilmington, DE
- WP 706 A Mass Spectrometry-Based Proteomic Method to Discover RNA Binding Protein Complexes in Developing Rice Seeds; Youngwoo Lee1; Zach McBride1; Daniel Szymanski¹; ¹Purdue University, West lafayette, IN

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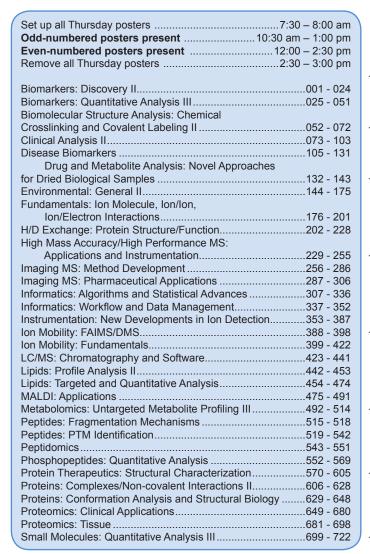
- WP 707 An Unbiased Protein Association Study on the Public **Human Proteome Reveals Biological Connections** between Co-Occurring Protein Pairs; Surya Gupta^{1,} ^{2, 3}; Kenneth Verheggen^{1, 2, 3}; Jan Tavernier^{1, 3}; Lennart Martens^{1, 2, 3}; ¹Department of Biochemistry, Ghent University, Ghent, Belgium; ²Bioinformatics Institute Ghent, Ghent University, Ghent, Belgium; 3Vib-Ugent Center For Medical Biotechnology, Ghent, Belgium
- WP 708 Proteomic Analysis Reveals Novel Hydroxyproline-Dependent Cellular Pathways in Cancer Cells: Luke Erber¹; Tong Zhou²; Yue Chen²; ¹University of Minnesota, Minneapolis, MN; ²University of Minnesota, Minneapolis, MN
- WP 709 High pH Fractionation for Enhancing the Proteome Coverage in Tissues Dissected from the Early Frog (Xenopus laevis) Embryo; Aparna B. Baxi^{1,2}; Camille Lombard-Banek¹; Sally A. Moody²; Peter Nemes¹; ¹Department of Chemistry, The George Washington University, Washington, D.C.; 2Department of Anatomy & Regenerative Biology, The George Washington University, Washington, D.C.
- WP 710 **Multi-Omics Comparative Analysis Reveals Host** Signaling Pathways Affected by the Gut Microbiota; Nathan P Manes¹; Natalia Shulzhenko²; Arthur G Nuccio¹; Sara Azeem¹; Andrey Morgun²; Aleksandra Nita-Lazar¹; ¹National Institutes of Health, Bethesda, MD; ²Oregon State University. Corvallis. OR
- WP 711 A Multiproteomic Approach to Characterize Transcriptional Regulators of HIV Expression During Activation of Primary CD4+T Cell Hosts; Mei Leng1; Alexander Saltzman¹; Bhoomi Bhatt¹; Anna Malovannaya¹;

In-depth Analyses of Protein Abundance, WP 712 Phosphorylation, Synthesis and Degradation during Neuronal Development and Synaptic Plasticity; Renske Penning¹: Christian K. Frese¹: Charlotte A.G.H. van Gelder¹:

¹Baylor College of Medicine, Houston, TX

Marina Mikhaylova¹; Riccardo Stucchi¹; Harm Post¹; Albert J. R. Heck1; Harold D. MacGillavry1; Casper C. Hoogenraad1; A.F. Maarten Altelaar²; ¹Utrecht University, Utrecht, Netherlands; ² Utrecht University, Utrecht

- **Quantitative Proteomics and Immunohistochemistry** Reveal Insights into Cellular and Molecular Processes in the Infarct Border Zone after Myocardial Infarction; Zachery R Gregorich¹; Libang Yang²; Wenxuan Cai³; Patrick Zhang²; Bernice Young²; Yiwen Gu³; Jianyi Zhang⁴; Ying Ge³; ¹UW Madison, Madison, WI; ²University of Minnesota, Minneapolis, MN: 3University of Wisconsin Madison, Madison, WI: 4University of Alabama at Birmingham. Birmingham, AL
- WP 714 Pathway Visualization and Analysis for Quantitative **Posttranslational Modification and Proteome Time** Series Data in the Perseus Software: Jan Rudolph1: Stefka Tyanova²; John C. Rogers³; Bhavin Patel³; Shouling Xu^{4, 5}; Devin Drew⁵; Kai Fritzemeier⁶; Andreas F. Huhmer⁷; Juergen Cox1; 1Max Planck Institute of Biochemistry, Martinsried, Germany; 2Hoffmann-La Roche, Basel, Switzerland: 3Thermo Fisher Scientific, Rockford, IL: ⁴Stanford University School of Medicine, Palo Alto, CA; ⁵Thermo Fisher Scientific, San Jose, CA; ⁶Thermo Fisher Scientific, Bremen, Germany; ⁷Thermo Fisher, San Jose, CA
- WP 715 Analysis of Neonatal Mouse Hearts with Shotgun Proteomics and Untargeted Metabolomics; Päivi Pöhö¹; Jaakko Teppo^{1, 2}; Virpi Talman³; Anu Vaikkinen¹; Sini Kinnunen³; Kajetan Trost⁴; Tommi Suvitaival⁴; Peter Rossing⁴; Tapio Kotiaho^{1, 5}; Heikki Ruskoaho³; Markku Varjosalo²; Risto Kostiainen¹; ¹Division of Pharmaceutical Chemistry and Technology, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland; 2Molecular Systems Biology Research Group and Proteomics Unit. Institute of Biotechnology, University of Helsinki, Helsinki, Finland; ³Division of Pharmacology and Pharmacotherapy, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland; ⁴Steno Diabetes Center Copenhagen, Gentofte, Denmark; ⁵Department of Chemistry, Faculty of Science, University of Helsinki, Helsinki, Finland
- WP 716 **Broad-scale Proteomic Analysis of Subcellular** Fractions for the High-Throughput Investigation of Mechanism of Action; Danielle B. Gutierrez1; Melissa A. Farrow²; Carrie E. Romer¹; Jamie L. Allen¹; Yuan-wei Nei1: Jocelyn Simpson2: Tina Tsui1: Salisha Hill1: Kristie L. Rose¹; Jeremy L. Norris¹; D. Borden Lacy²; Eric P. Skaar²; Richard M. Caprioli¹; ¹Vanderbilt University, Nashville, TN; ²Vanderbilt University Medical Center, Nashville, TN
- **Quantitative Multidimensional Characterization of** WP 717 Protein-Protein Interactions in Cancer; Danielle Swaney¹; Margaret Soucheray1; Nevan Krogan1; 1UCSF, San Francisco, CA
- WP 718 REPRINT: A Resource for Evaluation of Protein Interaction Networks; Dattatreya Mellacheruvu¹; Zachary Wright¹; Felipe da Veiga Leprevost¹; Anne-Claude Gingras²; Alexey I. Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI; ²Lunenfeld-Tanenbaum Research Institute, Toronto, ON, Canada
- WP 719 Mapping Ubiquitin Regulation under Stress by Multi-Dimensional Proteomics; Jeremy O'Connell¹; Marta Isasa²; Joao Paulo¹; Steven Gygi¹; ¹Harvard Medical School, Boston, MA; ²C4 Therapeutics, Cambridge, MAPharma Services, Inc., Lincolnshire, IL; 4Q2 Lab Solutions Bioanalytical and ADME Labs, Ithaca, NY: 5Quintiles, Ithaca, NY

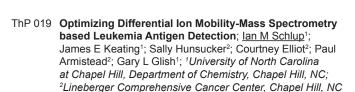


BIOMARKERS: DISCOVERY II

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	001 - 024
ThP 001	Biomarker Discovery in Fragile X-Associated Tremor/
	Ataxia Syndrome Using Mass Spectrometry Based
	Proteomics; Amber Orcutt ¹ ; Vadi Bhat ² ; Carol Haney-
	Ball ² ; Deborah A. Hall ¹ ; Stephanie Cologna ³ ; Elizabeth
	M. Berry-Kravis ¹ ; ¹ Rush University, Chicago, IL; ² Agilent
	Technologies, Wilmington, DE; 3University of Illinois at
	Chicago, Chicago, Illinois
ThP 002	Annexin A10 is a Candidate Marker Associated with
	the Progression of Pancreatic Precursor Lesions to
	Adenocarcinoma; Jianhui Zhu¹; Jing Wu¹; Xiucong Pei¹;
	Zhijing Tan¹; Mingrui An¹; Jiaqi Shi¹; David M. Lubman¹;
	¹ University of Michigan Medical Center, Ann Arbor, MI
ThP 003	
	the Avian Model of Ovarian Cancer; Elizabeth S. Hecht ¹ ;
	Alison A. Motsinger-Reif ¹ ; David C. Muddiman ¹ ; ¹ North
	Carolina State University, Raleigh, NC
ThP 004	Development of a Novel Chemical Method for Serum/
	Plasma Protein Depletion; Anton Iliuk ¹ ; Li Li ¹ ; Keerthi
	Jayasundera ² ; Andy Tao ^{1, 2} ; ¹ Tymora Analytical Operations,
	West Lafayette, IN; ² Purdue University, West Lafayette, IN
ThP 005	Discovery of Exposure Markers of di(2-pro,pylheptyl)
	phthalate (DPHP) Using Mass Spectrometry and
	Two Data Screening Procedures; Pao-Chi Liao ¹ ; Chia-

Lung Shih1; Pao-Mei Liao2; Jen-Yi Hsu1; 1Department

- of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan; ²Department of Environmental Science and Property Management, Jinwen University of Science and Technology, New Taipei City, Taiwan
- ThP 006 Identification of Hypoxia-Induced Splicing Variants in Cancer Cells Using Proteomics Approach; Pang-Hung Hsu¹; Chia-Hung Li¹; ¹National Taiwan Ocean University, Keelung, Taiwan
- ThP 007 Morphology Mass Spectrometry Imaging to Discover Heterogeneity Markers in Oncology; Gael Picard de Muller¹; Rima Ait-Belkacem¹; Fabien Pamelard¹; David Bonnel¹; Jonathan Stauber¹; ¹Imabiotech, Loos, France
- ThP 008 Identification of Cerebrospinal Fluid Peptide Markers for Recurrent Malignant Brain Tumor by Quantitative Proteomics; Tomohiro Kohata; Shingo Ito, Kumamoto, Japan; Mio Hirayama, Kumamoto, Japan; Takuya Furuta, Kanazawa, Japan; Mitsutoshi Nakada, Kanazawa, Japan; Sumio Ohtsuki, Kumamoto, Japan
- ThP 009 Screening of Diabetes Mellitus, Colorectal Cancer Complicated with Diabetes and Colorectal Cancer by Simultaneous Targeted and Non-Targeted Quantitative Metabolomics Analysis; Yang Gao; Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China
- ThP 010 Parkinson's Disease Cerebral Spinal Fluid Analysis by Direct Injection Electrosonic Spray Ionization Multiple Reaction Monitoring-Profiling; Karen E. Yannell¹; Christina R. Ferreira²; Tiago JP Sobreira²; R. Graham Cooks²; ¹Purdue University, west lafayette, IN Indiana; ²Purdue University, West lafayette, Indiana
- ThP 011 Comprehensive, Unbiased Proteomic Profilingof the Cell-Surface, Exosomal, and Secreted Proteomes of Senescent Cells; Natan Basisty¹; Bradford W Gibson¹; Judith Campisi¹; Birgit Schilling¹; ¹The Buck Institute for Research on Aging, Novato, CA
- ThP 012 Quantification of *in vivo* Protein Molecular Dynamics
 Employing Stable Isotope Labeling with Deuterium
 Oxide and High Resolution Mass Spectrometry; Thomas
 E Angel¹; Matthew E Szapacs¹; Zhuo Chen¹; Christopher A
 Evans¹; 'GSK, King of Prussia, PA
- ThP 013 Proteomic Analyses of GNMT Knock-Out Mice the Translational Research Study of mARC Genes Related to Liver Cancer; Ming-Hui Yang¹; Yi-Ming Arthur Chen¹; Hsiao-Hsuan Mo¹; Yu-Chang Tyan¹; ¹Kaohsiung Medical University, Kaohsiung, Taiwan
- ThP 014 Identification and Label-Free Quantification of Lipid Based Markers for Pre-Term Birth Using a Novel Scanning Quadrupole DIA Acquisition Method; Lee A Gethings¹; Shirish Yakkundi²; Gregoire Thomas³; Aude-Clare Morillon²; James I Langridge¹; Louise Kenny²; ¹Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK; ²INFANT, Cork, Ireland; ³Squ4re, Wevelgem, Belgium
- ThP 015 Determination of Metabolomics Profile Changes for Prediction of Mortality in Induced Hypothermia after Cardiac Arrest Patients; Urszula Osinska Warncke¹; Mary Ann Peberdy¹; Dayanjan S Wijeisnghe¹; ¹Virginia Commo
- ThP 016 Deepest Plasma Proteome Coverage with Lumos;
 Yue Zhou¹; Aiying Nie²; Jing Li¹; ¹ThermoFisher Scientific,
 Shanghai, China; ²ThermoFisher Scientific, shanghai, China
- ThP 017 Discovery and Characterization of Leukemia
 Chemotherapy-Related Neurotoxicity Biomarkers in
 Cerebrospinal Fluid via Mass Spectrometry-based
 Shotgun Proteomics; Qinying Yu¹; Bingming Chen¹; Yu
 Feng¹; Chrysanthy Ikonomidou¹; Lingjun Li¹; ¹University of
 Wisconsin Madison, Madison, WI
- ThP 018 Probing Exosomes for Early-Stage Biomarkers of Coronary Artery Disease; Sarah Elder¹; Blair Chen¹; Weiguo Andy Tao¹; 'Purdue, West Lafayette, IN



ThP 020 Identification, Validation and Quantification of Neuregulin-4 by Immunoreactive Methods in Blood Samples from Patients With or Without Diabetes; Rong-Ming Lyu¹; Nae J Dun²; Xianghai Yao¹; Qing Tian¹; Siok Le Dun²; Jin Jun Luo²; Jaw-Kang Chang¹; ¹Phoenix Pharmaceuticals, Burlingame, CA; ²Temple University, Philadelphia. PA 19140

ThP 021 Analysis of Cellular and Exosomal Proteins to Decode LKB1 Regulated Pathways in Lung Cancer Invasion and Metastasis; Bernice Agana¹; Michael Koenig²; Takehito Shukuya²; Joseph Amann²; David Carbone²; Vicki Wysocki¹; ¹Department of Chemistry and Biochemistry, The Ohio State University, Columbus, OH; ²Department of Internal Medicine, The Ohio State University, Columbus, OH

ThP 022 MIK-MS (Molecular Interaction and Kinetics Mass Spectrometry) Used to Verify the Affinity Ranking of Protein-Small Molecule Interactions; Tetsuya Fukuda1; Naoko Obi²; Noboru Nakayama³; John Ervin⁴; Yasuhiko Bando¹; Toshihide Nishimura³; Toshiaki Somehara²; Satoru Nagatoishi⁵; Kouhei Tsumoto⁶; Takeshi Kawamura⁷; ¹Research and Development, Biosys Technologies, Inc., Meguro-ku, Japan; 2Research & Marketing, Nissha Printing Co., Ltd., Kyoto-shi, Japan; 3Translational Medicine Informatics, St. Marianna University School of Medicine, Kawasaki-shi, Japan; ⁴Silicon Kinetics, Inc., San Diego, CA; ⁵School of Engineering, The University of Tokyo, Minatoku, Japan; 6School of Engineering, The Institute of Medical Science, and Drug Discovery Initiative, The University of Tokyo, Minato-ku, Japan; 7Proteomics Laboratory, Radioisotope Center, The University of Tokyo, Bunkyo-ku, Japan

ThP 023 Methods in Purity Optimization for A1AT Glycopeptide Analysis in Biomarker Research; Elisa Warner¹; Jianhui Zhu²; David M. Lubman²; ¹, Ann Arbor, MI; ²University of Michigan Medical School, Ann Arbor, MI

ThP 024 Identification of Single Amino Acid Variants from Three Subpopulations in the MCF-7 Breast Cancer Cell Line;

Zhijing Tan¹; Song Nie¹.²; Sean P. McDermott¹; Max S.

Wicha¹; David M. Lubman¹; ¹The University of Michigan, Ann Arbor, MI; ²Pacific Northwest National Laboratory, Richland, WA

BIOMARKERS: QUANTITATIVE ANALYSIS III 025 - 051

ThP 025 Using SRM to Monitor Biomarkers for Clostridium Difficile Susceptibility.; Sigmund J Haidacher^{1, 2}; Kathleen M Hoch^{1, 2}; Prapaporn Boonma^{2, 3}; Jennifer M Auchtung³; Robert A Britton³; Tor Savidge^{2, 3}; Anthony M Haag^{2, 3};

*****JBaylor College of Medicine, Houston, TX; ****JTexas Children's Hospital, Houston, TX; ***JBaylor College of Medicine, Houston, TX

ThP 026 Function of Human Gut Microbiome in Chronic Kidney Disease: Metaproteomics Approach; Oleg K Karaduta¹; Gerren P Hobby¹; Galina V Glazko¹; Yasir Rahmatallah¹; Lisa M Orr¹; Samuel G Mackintosh¹; Ricky D Edmondson¹; John M Arthur¹; Boris L Zybaylov¹; ¹UAMS, Little Rock, AR

ThP 027 Pre-Analytical Variability Assessment for Human Plasma Samples Based on Inflammation Biomarkers and Abundant Proteins; Zhijun Cao¹; Jinchun Sun¹; Laura Schnackenberg¹; Lisa Pence¹; Tom Schmitt¹; Mackean Maisha¹; Antje Wagner-Golbs²; Beate Kamlage²; Richard D Beger³; Li-Rong Yu¹; ¹National Center for Toxicological Research, FDA, Jefferson, AR; ²Metanomics GmbH, Berlin, Germany; ³NCTR/FDA, Jefferson, AR

ThP 028 Don't Know Activity from ADAM(TS13)? The First LC-MS/MS Assay for Measuring Activity of von Willebrand Factor Cleaving Protease; Meghan Bradley¹; Russell Grant¹; Christopher M Shuford¹; ¹LabCorp, Burlington, NC

ThP 029 Quantification of Bile Acids and their Conjugates in Plasma by Liquid Chromatography/Full Scan High Resolution Mass Spectrometry; Yao Shi¹; Michael Van Parys¹; Yang Gao¹; Dennis Milanowski¹; Stephanie Cape¹; Xiaorong Liang²; Brian Dean²; ¹Covance, Madison, WI 53704; ²Genentech, Inc, South San Francisco, CA

ThP 030 Sensitive and Reproducible LC-MS Quantification of C-Reactive Protein in Plasma Using a Generic Kit-Based Approach for Clinical Research; Paula Orens¹; Mary E Lame²; Steven Calciano²; Erin Chambers²; ¹Waters Corporation, Milford, MA; ²Waters Corp, Milford, MA

ThP 031 Glycoproteomics of Breast Cancer Human Plasma Extracellular Vesicles for Biomarker Discovery and Validation Using Polymer-Based Reverse Phase Glycoprotein Array; Hillary Andaluz¹; I-Hsuan Chen¹; Li Pan¹; Anton Iliuk¹.²; Andy Tao¹.²; ¹Purdue University, West lafayette, Indiana; ²Tymora Analytical Operations, West Lafayette, IN

ThP 032 LC/MS Analysis of Various Compounds Having Amino or Ammonium Groups with Using a New Polymer-based HILIC Column; Junji Sasuga¹; Daisuke Maruyama¹; Ron Benson²; <u>Leah Block²; ¹Showa Denko KK, Ogimachi, Japan; ²Shodex, Showa Denko America, Inc., New York, NY</u>

ThP 033 A Simple Dilute-and-Shoot FI-MS/MS for Quantification of Glycocholic Acid in Human Bile Using Standard Addition Method; Raghavi Kakarla¹; Ramakrishna Reddy Voggu¹; Baochuan Guo²; Janet Donaldson³; ¹Cleveland State University, Cleveland, OH; ²Cleveland State University, Department of Chemistry, Cleveland, OH; ³Mississippi State University, Starkville, MS

ThP 034 Quantitative MALDI-TOF Measurements of Protein Functional Activity in Bronchoalveolar Lavage and Serum for Rapid Adverse Drug Reactions Assessment; liva Toropygin¹; Alexandr Protasov²; Olga Mirgorodskaya²; Andry Vasin²; Andrey Lisitsa¹; **Inst.of Biomedical Chemistry, Moscow, Moscow; **Research Institute of Influenza, Saint-Petersburg, Russia

ThP 035 Quantitation of a Broad Range of Nucleotides in Mouse Tissues Using a Novel Liquid Chromatography/Mass Spectrometry Method; Chris Petucci^{1, 2}; Andrew Zelenin^{2, 3}; Nidhi Kapoor^{2, 3}; Meghan Gabriel^{2, 3}; Mauro Dispagna^{2, 3}; Stephen J. Gardell^{2, 3}; ¹Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL; ²University of Florida, Gainesville, FL; ³Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL

ThP 036 Detection and Quantification of Bufadienolides in Complex Sample Mixtures Using a nano-ESI-IM-MS Coupled to nano-UPLC; Luke T. Richardson¹; Brooke A. Brown¹; Elyssia S Gallagher¹; Jules B. Puschett²; Touradj Solouki¹; ¹Baylor University, Waco, Texas; ²Texas A&M University, College Station, Texas

ThP 037 Urinary Metabolomics and Proteomics Analysis of an E.coli-Induced Prostatic Inflammation Mouse Model via Isobaric DiLeu Tagging and Label-free Methods; Pingli Wei¹; Ling Hao²; Fengfei Ma³; Qing Yu³; Amanda Buchberger⁴; Sanghee Lee⁵; Wade Bushman⁵; Lingjun Li^{1,3}; Department of chemistry, University of Wisconsin Madison, Madison, WI; School of Pharmacy, University of Wisconsin-Madison, Madison, Madison, Mi; Department of Chemistry, University of Wisconsin-Madison, Madison, Madison

ThP 038 Imputation of Missing Data in Quantitative Proteomics using Singular Value Thresholding; Tjeerd Dijkstra¹; Timo Sachsenberg²; Oliver Kohlbacher³; **IMAX Planck Institute for



- Developmental Biology, Tuebingen, Germany; ²Universität Tübingen, Tübingen, Germany; ³Max Planck Institute for Developmental Biology, Tübingen, Germany
- ThP 039 Ultra-Trace Level Quantitation of Modified Human Lung DNA: Extreme Efforts to Optimize the Sensitivity of HRAM Detection of Adducted Nucleosides; J. Bradley Hochalter¹; Peter W. Villalta¹; Stephen S. Hecht¹; ¹Masonic Cancer Center, University of Minnesota, Minneapolis, MN
- ThP 040 Selective Enrichment of Biomarkers Using Amphiphilic Polymers for Enhanced Mass Spectrometric Analysis; Mahalia A. C. Serrano¹; Bo Zhao¹; Sankaran Thayumanavan¹; Richard W Vachet¹; ¹University of Massachusetts Amherst, Amherst, MA
- ThP 041 Protein Biomarker Discovery for Patient with Gastric Cancer Using Mass Spectrometry-Based Quantitative Urinary Proteomics; Hong Wang¹; Hiroaki Katayama¹; Xiaoqian Liu¹; Juan Chen¹; Ayumu Taguchi¹; Samir Hanash¹; **MD Anderson Cancer Center, Houston, TX
- ThP 042 The Experimental Autoimmune Myocarditis in Rat Activates the Autophagy and Apoptosis; Jong Bok Seo¹; Seung-Min choi¹; ¹Korea Basic Science Institute, Seoul, Asia
- ThP 043 A Quantitative Analytical Method for PIVKA-II Using Multiple Reaction Monitoring-Mass Spectrometry for Early Diagnosis of Hepatocellular Carcinoma; Areum Sohn¹; Hyunsoo Kim²; Dongyoon Shin³; Youngsoo Kim¹.

 4; †Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, South Korea; ²Seoul National University Hospital, Seoul, Jongro-gu; ³Seoul National University College of Medicine, Seoul, South Korea; ⁴Department of Biomedical Engineering, Seoul National University College of Medicine, Seoul, Seoul, South Korea, Seoul, South Korea
- ThP 044 Development and Qualification of a Sensitive and Robust Immunoaffinity UPLC-MRM MS Method for Quantitative Measurement of Angiopoietin-1 in Monkey Plasma; Yuhuan Ji¹; Joshuaine Toth²; Tammy Bigwarfe²; Chao Zheng²; Margit MacDougall²; Qian Li¹; Jian Shi¹; Vladimir Papov²; Peng Sun²; Ryan Fryer²; John Chen¹; Laixin wang¹; Chengjie Ji¹; ¹Novabioassays LLC, Woburn, MA; ²Boehringer Ingelheim Pharmaceuticals, Inc., Ridgefield, CT
- ThP 045 Measuring Microbial Load in Unburned Tobacco using HPLC and Tandem Mass spectrometry; Peter Kuklenyik¹; Jacob B. Kimbrell¹.²; Robert Tyx¹; Angel J. Rivera¹.²; Stephen Stanfill¹; ¹Centers for Disease Control, Atlanta, Georgia; ²Oak Ridge Institute of Science & Education, WPAFB. OH
- ThP 046 Streamlining Quantitative Assay Development Using Diagnostic Cluster Ions Native to Atmospheric Pressure Ionization; RICHARD KING¹; Susan Crathern¹; Guille Metzler¹; Lorin Bachmann²; carmen fernandez-metzler¹;

 ¹PharmaCadence Analytical Services, LLC, Hatfield, PA;
 ²Virginia Commonwealth University, Richmond, VA
- ThP 047 Development of a nonglycopeptide-based MRM strategy for screening of differential glycoproteins in hepatocellular carcinoma; Weiqian Cao¹; Bingyun Jiang²; Jiangming Huang²; Yi Wang²; Pengyuan Yang²; ¹Fudan University, Shanghai, Shanghai; ²Fudan University, Shanghai, China
- ThP 048 Epitope fishing in digested biological samples;

 Maren Levernæs¹; Bassem Farhat¹; Marianne Nordlund
 Broughton²; Léon Reubsaet¹; Trine Grønhaug Halvorsen¹;

 ¹School of Pharmacy, University of Oslo, Oslo, Norway;

 ²Department of Medical Biochemistry, Radiumhospitalet,
 Oslo University Hospital, Oslo, Norway
- ThP 049 Comparison of Short-Chain Fatty Acids in Fecal vs. Plasma Samples using Gas Chromatography-Mass Spectrometry as Markers for the Gut Microbiome; Vincent Windisch¹; John A. Masucci²; Allen Xu¹;

- ¹Keystone Bioanalytical, North Wales, PA; ²Janssen Research&Development, Spring House, PA
- ThP 050 Highly Sensitive Mass Spectrometric Analysis of Tau
 Protein Isoforms in Human Cerebrospinal Fluid; Yusaku
 Hioki¹; Naoki Kaneko¹; Ritsuko Yoda¹; Sadanori Sekiya¹;
 Shinichi Iwamoto¹; Koichi Tanaka¹; ¹Shimadzu Corporation,
 Kvoto. Japan
- ThP 051 MRM based Validation of Protein Biomarkers across
 Different Grades of Glioma Tissues; Nikita Gahoi¹;
 Saicharan Ghantasala¹; Kishore Gollapalli¹; Sanjeeva
 Srivastava¹; Ajit Datar²; Rashi Kochhar²; Aliasgar Moiyadi³;
 Epari Sridhar³; ¹Indian Institute of Technology Bombay,
 Mumbai, India; ²Shimadzu Analytical (India) Pvt. Ltd.,
 Mumbai, India; ³Tata Memorial Hospital, Parel, Mumbai,
 India

BIOMOLECULAR STRUCTURE ANALYSIS: CHEMICAL CROSSLINKING AND COVALENT LABELING II 052 - 072

- ThP 052 Improving Mass-Spectrometry Analysis of Protein Structures with Arginine-Specific Chemical Cross-linkers; Alexander X. Jones¹; Yong Cao²; Yue-He Ding²; Hui Tan¹; Meng-Qiu Dong²; Xiaoguang Lei¹; ¹College of Chemistry, Peking University, Beijing, China; ²National Institute of Biological Sciences, Beijing, Beijing, China
- ThP 053 Optimization of Zero-Length Cross-linking Reaction Conditions Using Liquid Chromatography Mass Spectrometry to Probe Large Protein Complexes;

 Pengyuan Liu¹; Yekaterina Kori¹; Sandra L. Harper¹; Roland Rivera-Santiago¹; David W. Speicher¹; ¹The Wistar Institute, Philadelphia, PA
- ThP 054 de novo Protein Structure Determination by Short-Distance Crosslinking Constraint-Guided Discrete Molecular Dynamics Simulations; Nicholas I. Brodie¹; Jason J. Serpa¹; Konstantin I. Popov²; Evgeniy V. Petrotchenko¹; Nikolay V. Dokholyan²; Christoph H. Borchers¹.³; ¹University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochemistry and Biophysics, University of North Carolina School of Medicine, Chapel Hill, NC; ³Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada
- ThP 055 Novel Photo-Reactive Homo-Bifunctional Bis-Diazirine Short-Range Crosslinkers for Studying Protein Structure; Nicholas I. Brodie¹; Jason J. Serpa¹; Evgeniy V. Petrotchenko¹; Christoph H. Borchers^{1,2}; ¹University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada
- ThP 056 NSLS-II XFP: X-ray Footprinting Beamline for in vitro and in vivo Structural Studies of Biological Macromolecules; Jen Bohon^{1, 2}; Don Abel¹; Erik R. Farquhar¹; John Toomey¹; Michael Sullivan¹; Mark R. Chance^{1, 2, 3}; ¹Center for Synchrotron Biosciences, Case Western Reserve University, Cleveland, OH; ²Department of Nutrition, Case Western Reserve University, Cleveland, OH; ³Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH
- ThP 057 Kojak: Pipeline Developments and New Features for the Analysis of Chemically Cross-Linked Proteins;

 Michael R. Hoopmann 1; Alex Zelter2; Michael Riffle2; Luis Mendoza1; David Shteynberg1; Eric W. Deutsch1; Trisha N. Davis2; Robert L. Moritz1; *Institute for Systems Biology, Seattle , WA; *2University of Washington, Seattle, WA
- ThP 058 Evaluation of a Series of Arginine-Specific Chemical Cross-Linkers for Mass Spectrometry Analysis of Proteins; Alexander X. Jones¹; Yong Cao²; Yue-He Ding²; Xiaoguang Lei¹; Meng-Qiu Dong²; ¹College of Chemistry, Peking University, Beijing, China; ²National Institute of Biological Sciences, Beijing, Beijing, China



- Luana Oliveira1; Allan JR Ferrari1; Diogo Borges Lima2; Paulo Costa Carvalho³; ¹University of Campinas, Campinas, SP; 2Institut Pasteur, Paris; 3Carlos Chagas Institute -Fiocruz, Curitiba, Brazil
- ThP 060 OpenProXL: a Fast and Versatile XL-MS Identification Tool; Eugen Netz1; Timo Sachsenberg2; Christian Johannes Gloeckner³; Oliver Kohlbacher^{1, 2}; ¹Max Planck Institute for Developmental Biology, Tübingen, Germany; ²Universität Tübingen, Tübingen, Germany; 3German Center for Neurodegenerative Diseases Tübingen, Tübingen, Germany
- ThP 061 Hydroxyl Radical Footprinting with PLIMB (Plasma-Induced Modification of Biomolecules): A New Tool for Structural Mass Spectrometry; Benjamin B. Minkoff¹; Joshua Blatz¹; Daniel Benjamin¹; Faraz Choudhury¹; J. Leon Shohet1; Michael R. Sussman1; 1 University of Wisconsin-Madison, Madison, WI
- ThP 062 Fast Photochemical Oxidation of Proteins Coupled with Ion Mobility-Mass Spectrometry to Characterize Structural Differences between Protein Conformers: Emily Hart1; Daniel J. Deredge1; Lisa M. Jones1; 1University of Maryland School of Pharmacy, Baltimore, MD
- ThP 063 Perfluoroalkyl Radicals for Footprinting Soluble and Membrane Proteins; Ming Cheng1; Michael L. Gross²; ¹Washington University, St.Louis, MO; ²Washington University, St. Louis, MO
- ThP 064 High Resolution Mapping of Drug Binding Site Using Hydroxyl Radical Footprinting; Janna Kiselar¹; Stephanie Stanford^{2, 3}; Alexander E Aleshin⁴; Sichun Yang¹; Vida Zhang^{2, 3}; Robert J Ardecky⁵; Gregory W Cadwell⁴; Jinghua Yu⁵; Laurie A Bankston⁴; Robert C Liddington⁴; Anthony Pinkerton⁵; Mark R Cance¹; Nunzio Bottini^{2, 3}; ¹Department of Nutrition, Case Western Reserve Univ, Cleveland, OH; ²Division of Cellular Biology, La Jolla Institute for Allergy and Immunology, La Jolla, CA; 3Department of Medicine, University of California, San Diego, CA; 4Infectious and Inflammatory Disease Center, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA; 5Conrad Prebys Center for Chemical Genomics, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, CA
- ThP 065 Amino Acid Analysis of Carbene Footprinting by Enzymatic Hydrolysis and GC-MS; Bojie Zhang¹; Daryl Giblin¹; Ming Cheng¹; Michael L. Gross¹; ¹Washington University in St. Louis, St. Louis, MO
- ThP 066 Structural Elucidation via Automated Analysis of Complex Protein Crosslinking Data; Allis S. Chien1; Eric Carlson²; Marshall W. Bern²; Wilfred H. Tang²; Christopher Becker²; Ryan D. Leib¹; Christopher M. Adams¹; ¹Vincent Coates Foundation Mass Spectrometry Laboratory, Stanford University, Stanford, CA; ²Protein Metrics Inc., San Carlos,
- ThP 067 High Confidence Identification of Crosslinked Peptides Using a Dual Cleavable Crosslinker (DUCCT) with Enrichment Functionality; Jayanta Kishor Chakrabarty1; Abu Hena M Kamal²; Zixiang Fang²; Saiful M. Chowdhury²; ¹University of Texas, Arlington, Arlington, TX; ²University of Texas at Arlington, Arlington, TX
- ThP 068 Carbonate Radical Anion as a new reagent for Fast Photochemical Oxidation of Proteins; Mengru Zhang¹; Michael L. Gross²; ¹, St. Louis, Missouri; ²WUSTL, St. Louis, МО
- ThP 069 Enrichment Strategies for Improvement of Mass Spec Analysis of Chemical Cross-Linked Peptides; Rosa Viner¹; Ryan Bomgarden²; Kratika Singhal²; Sergei Snovida²; Craig Gutierrez³; Lan Huang³; ¹Thermo Fisher Scientific, San Jose, CA; 2Thermo Fisher Scientific, Rockford, IL: 3UC Irvine Department of Physiology & Biophysics, Irvine, CA

- LC-Ion Mobility (IM)-MS/MS; Denise P Tran1; Paul J Trim2; Marten F Snel²; Tara L Pukala¹; ¹The University of Adelaide, Adelaide, Australia: 2South Australian Health and Medical Research Institute, Adelaide, Australia
- ThP 071 MS-Fold: Protein Structure Prediction Guided by Covalent Labeling Mass Spectrometry Data; Melanie L Aprahamian¹; Samantha H Hinckley¹; Vicki H. Wysocki¹; Steffen Lindert¹; ¹Ohio State University, Columbus, OH
- ThP 072 Cross-Linking Visualization and Analysis Using CX-Circos 2; Junjie Wang1; Yi Shi1; Brian T Chait1; 1Rockefeller University, New York, NY

CLINICAL ANALYSIS II 073 - 103

- ThP 073 A High Sensitivity LC/MS/MS Method for Quantitative Analysis of Eight Antifungal Drugs in Human Serum; Tze Peng Lim¹; Yuan Cao²; Shao Hua Chia²; Si Xuan Tan¹; Zhao Qi Zhan²; Jie Xing²; ¹Pharmacy, Singapore General Hospital, Singapore, Singapore; ²Application Development & Support Centre, Shimadzu (Asia Pacific) Pte Ltd. 79 Science Park Drive #02-01/08,, Singapore, Singapore
- ThP 074 **Direct Injection of Antiretroviral Drugs in Highly Organic** Protein-Precipitated Human Plasma by LC-MS/MS; <u>Frances Carroll</u>¹; Justin Steimling¹; Susan Steinike¹; ¹Restek Corporation, Bellefonte, PA
- ThP 075 Quantification of 3α and 3β epimers of 25-Hydroxyvitamin D3 in DBS Using Artificial Whole Blood Calibration and Chemical Derivatization: Miriam Müller¹; Caroline Stokes¹; Dietrich Volmer ¹; ¹Saarland University, Saarbrücken
- ThP 076 LC-MS-MS Quantitative Analysis of Thyroid Hormones and Metabolites in Serum for Research Use; Rory M Doyle; Thermo Fisher Scientific, Somerset, NJ
- ThP 077 Rapid Quantification of Endogenous Cholesterol in **Human Serum on Filter Paper Using Direct Analysis** in Real Time Mass Spectrometry (pDART-MS); Hua-Yi Hsieh1; Li-Hua Li2,3; Ren-Yu Hsu1; Ying-Chen Huang1; Wei-Fong Kao^{4, 5}; Cheng-Chih Hsu¹; ¹Department of Chemistry, National Taiwan University, Taipei, Taiwan; 2Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan; 3School of Medical Laboratory Science and Biotechnology, Taipei Medical University, Taipei, Taiwan; 4Chief, Department of Emergency & Critical Care Medicine, Taipei Medical University Hospital, Taipei, Taiwan; 5Department of Emergency medicine, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
- ThP 078 Enzyme Activities in Six Lysosomal Storage Diseases in Japanese Neonates Determined by LC-MS/MS; Ryuichi Mashima¹; Motomichi Kosuga¹; Torayuki Okuyama¹; ¹National Center for Child Health and Development, Setagaya-ku, Japan
- Quantitative Analysis of β-Lactam Antibiotics in Human Plasma by High Sensitivity LC/MS/MS Method; Daryl Kim Hor Hee1; Zhi Wei Edwin Ting2; Lawrence Soon-U Lee¹; Jie Xing³; Kelvin Loh Shun Cheng⁴; Zhaogi Zhan³; ¹Clinical Analysis Centre, Department of Medicine Research Laboratories, National University of Singapore, Singapore, Singapore; ²Shimadzu (Asia Pacific) Pte Ltd, Singapore, Singapore; ³Shimadzu Asia Pacific, Singapore, Singapore; ⁴School of Physical and Mathematical Science, Nanyang Technical University, Singapore, Singapore
- ThP 080 Multiplexed Quantification of Anti-Tuberculosis (anti-TB) Drugs in Plasma and Tissue via LC-MS/MS Analysis; Pamela Hummert¹; Mark Marzinke²; ¹Johns Hopkins University, Baltimore, MD; ²Johns Hopkins University, Baltimore, MD



- ThP 082 New approaches for Enzyme Replacement Therapy of Lysosomal Diseases byldentification and Affinity Quantification of Antibody Epitopes; Michael Przybylski¹; Zdenek Kukacka¹; Stefan Maeser¹; Fabio Borri¹.²; Lorenzo Altamore²; Julia Hennermann³; Anna Maria Papini²; ¹Steinbeis Centre Biopolymer Analysis and Biomedical Mass Spectrometry, Ruesselsheim am Main, Germany; ²Department of Peptide Chemistry and Biology, University of Florence, Florence, Italy; ³Unimedizin, Villa Metabolica, Universität Mainz, Mainz, Germany
- ThP 083 Improving Accuracy of Reference Measurements for Serum 25-Hydroxyvitamin D Metabolites by Switching from Solvent- to Serum-Based Calibration; Ekaterina

 Mineva¹; Rosemary Schleicher¹; Shahzad Momin¹; Khin Maw¹;

 ¹Centers for Disease Control and Prevention, Atlanta, Ga
- ThP 084 Evaluation of Blood Lysis Procedures prior to
 Automated Sample Preparation for Immunosuppressant
 Assay by LC-MS/MS; Eishi Imoto¹; Mikael Levi¹; Atsuhiko
 Toyama¹; Daisuke Kawakami²; Jun Watanabe¹; ¹Shimadzu
 Corporation., MS BU, Kyoto, Japan; ²Shimadzu, Kyoto,
 Japan
- ThP 085 Detection and Quantification of Carbohydrate Deficient Transferrin by MALDI-Compatible Protein Chips
 Prepared by Ambient Ion Soft Landing; Petra Darebna^{1,2};
 Petr Pompach^{1,2,3}; Michal Rosulek^{1,2}; Michael Volny^{1,3}; Petr Novak^{1,2,3}; ** *IBIOCEV*, Institute of Microbiology of the CAS*, v.v.i., Vestec, Czech Republic; ** Faculty of Science, Charles University, Prague, Czech Republic; ** AffiPro s.r.o., Mratin, Czech Republic*
- ThP 086 Fully Automated Platform for Sensitive Determination of Immunosuppressant Drugs in Whole Blood, Using High Quality Internal Standardization; Aurore Jaffuel¹;

 Marc Fernandez¹; Alban Huteau¹; ¹Shimadzu France, Paris, France
- ThP 087 Evaluation of Interaction of Hop Botanical Dietary
 Supplements with Drug Metabolism in Women; Luying
 Chen¹; Alyssa Tonsing-Carter¹; Richard van Breemen¹;

 ¹University of Illinois College of Pharmacy, Chicago, IL
- ThP 088 Single Assay Measurement of Aldosterone-to-Renin Ratio by Online SPE-UHPLC-MS/MS; Mikael Levi¹; Nicola Gray²; Oneal Joseph³; Ichiro Hirano¹; ¹Shimadzu Corp., MS BU, Kyoto, Japan; ²Shimadzu UK Limited, Milton Keynes, UK; ³Health Services Laboratory, London, UK
- ThP 089 Quantitative and Rapid Carbapenem Susceptibility
 Test for Bacteria Based on LDI-TOF MS; Jong Min Park¹;
 Joo-Yoon Noh¹; Mira Kim¹; Moon-Ju Kim¹; Jae-Chul Pyun¹;
 ¹Yonsei University, Seoul, South Korea
- ThP 090 Fully Automated Platform for Determination of Tricyclic Antidepressant in Serum; Davide Vecchietti¹; Claudio Ghilardi²; Katharina Kern³; Stéphane Moreau⁴; Isabel Cabruja²; ¹Shimadzu, Milan, Lombardy; ²Shimadzu Italy, Milan, Italy; ³Recipe Chemicals + Instruments GmbH, Munich, Germany; ⁴Shimadzu Europe GmbH, Duisburg, Germany
- ThP 091 Comparison of FIA and On-Column LC-MS/MS Method to Measure Simultaneously ABG, ASM, GAA, GALC, GLA and IDUA Activities; Misa Tanaka¹; Osamu Ohara²; Jun Watanabe¹; Toshikazu Minohata¹; Eishi Imoto¹; Junichi Masuda¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Kazusa DNA Research Institute, Kisarazu, Japan
- ThP 092 LC-MS-MS Quantitative Analysis of Folic Acid, its Metabolites and Derivatives in Serum for Research Use; Rory M Doyle¹; Catherine Riley¹; ¹Thermo Fisher Scientific, Somerset, NJ

- ThP 093 Fully Automated Online Sample Preparation AND
 Quantification of Amiodarone from Whole Blood
 Using CLAM-LC-MS/MS; Christian Bunse¹; Lars Kröner²;

 ¹Shimadzu Deutschland GmbH, Duisburg, Germany; ²Labor
 Dr. Wisplinghoff, Cologne, Germany
- ThP 094 Detection of Vitamin D Metabolites Based on Dried Blood Spot Sampling in Combination with LC/MS/MS High-Throughput Analysis; Konrad Piotr Kowalski^{1, 2}; Tomasz Bienkowski^{1, 2}; † Masdiag Sp. z o.o., Warszawa, Mazowieckie; ²MS Ekspert Sp. z o.o., Gdańsk, Poland
- ThP 095 Determination of Plasma DHA Using UPLC-MS/MS in APRT Deficient Patients with Ocular Manifestations;

 Margret Thorsteinsdottir^{1,2}; Unnur A. Thorsteinsdottir^{1,2}; Hrafnhildur L. Runolfsdottir^{1,3}; Finnur F. Eiriksson^{1,2}; Vidar O. Edvardsson^{1,3}; Runolfur Palsson^{1,3}; *1University of Iceland, Reykjavik, Iceland; *2ArcticMass, Reykjavík, Iceland; *3Landspitali The National University Hospital of Iceland, Reykjavík, Iceland
- ThP 096 UHPLC-MS/MS quantitative analysis of estrogen metabolites in human serum; Alan Wong¹; Lingyi Huang¹; Shuai Wang¹; Caitlin Howell¹; Judy L. Bolton¹; Richard B. van Breemen¹; **Inniversity of Illinois at Chicago, Chicago, IL
- ThP 097 High-sensitivity, high-throughput quantitation of catecholamines in plasma by Automatable Derivatization and SPE Coupled to LC-MS/MS for Clinical Research; Atsuhiko Toyama¹; Mikael Levi¹; Ichiro Hirano¹; Jun Watanabe¹; ¹Shimadzu Corporation, Kyoto, Japan
- ThP 098 Monitoring Simvastatin Metabolism using LC/MS as a Diagnostic Tool for Celiac Disease Activity; Jennifer Sealey Voyksner¹; Josesph A Murray²; Jack Syage³; Chaitan khosla⁴; ¹ImmunogenX, Durham, NC; ²Mayo Clinic, Rochester, MN; ³ImmunogenX, Newport Beach, California; ⁴Stanford University, Stanford, CA
- ThP 099 Quantitation of Plasma Metanephrine and Normetanephrine by Derivatization Using an Integrated LC-MS/MS Analyzer Equipped with Fully-Automated Sample Preparation Device; <u>Taku Tsukamoto</u>¹; Daisuke Kawakami¹; Atsuhiko Toyama¹; ¹Shimadzu Corporation, Kvoto. Japan
- ThP 100 Fast and Sensitive Method for the LCMS Analysis of Vitamin D; <u>Tim Schlabach</u>1; Jinhee Kim1; **Novilytic LLC, West Lafayette, IN
- ThP 101 Improvement of Stability and Reproducibility of Standard Solutions to Guarantee Robust and Reliable Data in LC-MS Analyses Using READYBEADS; Jordane Biarc¹; Quentin Enjalbert¹; Chloe Bardet¹; Christelle Jacquet¹; Lou Van Poeck¹; Tanguy Fortin¹; ¹ANAQUANT, Villeurbanne. France
- ThP 102 Quantitative Determination of Free Hormone Fraction via Biocompatible Solid Phase Microextraction (BioSPME); Sara Smith¹; Candace Price²; Emily Barrey²; Craig Aurand²; Dave Bell²; ¹Millipore Sigma, Bellefonte, PA; ²MilliporeSigma, Bellefonte, PA
- ThP 103 Simple and Robust LC-MS/MS Method of the Alcohol Biomarker Phosphatidylethanol (PEth) in Whole Blood using Luna Omega Polar C18 Column; Xianrong (Jenny) Wei¹; Sean Orlowicz¹; ¹Phenomenex, Inc., Torrance, CA

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- ThP 106 Quantitative Proteomics of Murine Exosomes Following Aerosol Exposure to 4,4'-Methylene Diphenyl Diisocyanate; Brandon F. Law¹; Chen-Chung Lin¹; Paul D. Siegel¹; Justin M. Hettick¹; ¹NIOSH, Morgantown, WV



ThP 108 A Comprehensive Protein Biomarker Study of Cerebrospinal Fluid from Smith-Lemli-Optiz Patients; Alfred L. Yergey¹; Stephanie M. Cologna²; Melissa R. Pergande²; Matthew T. Olson³; Peter S. Backlund¹; Christopher A. Wassif¹; Brian C. Searle⁴; Jacqueline A. Picache¹.⁵; Kathryn R. Burkert¹; Vadiraja Bhat⁵; Carol Haney-Ball⁰; Forbes D. Porter¹; ¹National Institutes of Health, Bethesda, MD; ²University of Illinois at Chicago, Chicago, IL; ³Johns Hopkins University, Baltimore, MD; ⁴Proteome Software, Portland, OR; ⁵Vanderbilt University, Nashville, TN; ⁵Agilent Technologies, Wilmington, DE

ThP 109 Tegumentray Leishmaniasis Investigated by DESI Imaging and Profile; Fernanda Negrão¹; Daniele F. de O. Rocha¹; Célio F. F. Angolini¹; Caroline F. Jaeeger¹; Daniel R. Abánades¹; Selma Giorgio¹; Marcos N. Eberlin¹; ¹UNICAMP, Campinas. SP

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ThP 111 Novel Biomarkers for Respiratory Diseases Discovered by Secondary Electrospray Ionization – High Resolution Mass Spectrometry; Nora Nowak¹; Martin T. Gaugg¹; Lukas Bregy¹; Tobias Bruderer¹; Pablo Martinez-Lozano Sinues¹; Alexander Möller²; Malcolm Kohler³; Renato Zenobi⁴; ¹ETH Zurich, Department of Chemistry and Applied Biosciences, Zurich, Switzerland; ²Kinderspital Zürich, Zurich, Switzerland; ³University Hospital Zurich, Zurich, Switzerland; ⁴ETH Zurich, Zurich

ThP 113 Ratiometric Mass Spectrometry Determination of GALE Activity; Ruth Gordillo¹; Yi Zhu¹; Preethi Csudae¹; Benjamin J. Figard²; Jone Garate³; Duyen Do¹; Philipp E Scherer¹; ¹Touchstone Diabetes Center, Department of Internal Medicine, Dallas, Texas; ²Shimadzu Scientific Instruments, Columbia, MD; ³Department of Physical Chemistry, University of the Basque Country, Leioa, Afghanistan

ThP 114 Targeted Sphingolipid Profiling of Tumor and Plasma Samples in Murine Lung Carcinoma Model Revealing the Mechanism of Doxorubicin; Ujjaini Dasgupta¹; Nihal Medatwal²; Avinash Bajaj²; Dipanakar Malakar³; Manoj Pillai³; Sandeep Kumar²; 1, Gurgaon, Haryana; 2Regional Center for Biotechnology, Faridabad, India; 3SCIEX, 121, Udyog Vihar, Phase IV., Gurgaon, India

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ThP 116 Identification and functional assay of missing proteins in cancer research; Yu-Chang Tyan¹; Ming-Hui Yang¹; Po-Chiao Huang¹; **IKaohsiung Medical University, Kaohsiung, Taiwan

ThP 117 Large-Scale Analysis of Protein Conformational Changes for Biomarker Discovery in Breast Cancer;

Fang Liu¹; Michael C. Fitzgerald¹; ¹Duke University, Durham, NC.

ThP 118 Proteomic Analysis of Right-Side and Left-Side Colon Cancer Tumors; Katelyn Ludwig¹; Heinz-Josef Lenz²; Amanda B. Hummon¹; ¹University of Notre Dame, Notre Dame, IN; ²University of Southern California, Los Angeles, CA

ThP 119 Enrichment of Hydrophobic Endogenous Peptides in Urine from Patients with Severe Preeclampsia by Mesoporous Silica Chips; Hongwu Jing¹; Irina A. Buhimschi²; Guomao Zhao²; Megan Locke²; Sten Heinze²; Jason Sakamoto³; Catalin S. Buhimschi⁴; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH; ²Center for Perinatal Research, The Research Institute at Nationwide Children's Hospital, Columbus, OH; ³NanoMedical Systems, Houston, TX; ⁴Department of Obstetrics and Gynecology, The Ohio State University, Columbus, OH

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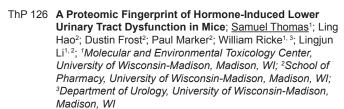
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Nichol Schultz¹; Molly McCue¹; ¹University of Minnesota,
Minneapolis, Minnesota; ²Michigan State University,
Lansing, MI; ³Massey University College of Science,
Palmerston North, New Zealand

ThP 123 Proteomic Analysis of Exosomes Derived Alzheimer's Disease Brain Tissue; Manveen K Sethi¹; Annina DeLeo²; Tsuneya Ikezu²; Joseph Zaia¹; ¹Center for Biomedical Mass Spectrometry, Department of Biochemistry, Boston University School of Medicine, Boston, MA; ²Department of Pharmacology & Experimental Therapeutics, Boston University School of Medicine, Boston, MA

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Gross¹; ¹Weill Cornell Medicine, New York, NY

ThP 125 Application of a Comparative Lipidomic Approach to Distinguish Pathogenic Staphylococci; Naren Gajenthra Kumar¹; Kim Ekroos²; Kimberly Jefferson¹; Dayanjan S Wijesinghe¹; ¹Virginia Commonwealth University, Richmond, VA; ²Lipidomics Consulting Ltd., Irisviksvägen, Finland



ThP 127 Proteomic Profiling of Plasma, iPSC, 3D Neuron, and Brain Tissue from Alzheimer Patients Using LC-MS/MS; Mei Chen¹; Han-Kyu Lee¹; Peter Morin¹; John M Wells¹; Eugene B Hanlon¹; Nicole Daniels¹; Lauren Moo¹; Thor Stein¹.²; Weiming Xia¹.³; ¹Edith Nourse Rogers Memorial Veterans Hospital, Bedford, MA; ²Boston University School of Medicine, Boston, MA; ³Boston University School of Medicine, Boston, MA

ThP 128 Quantitative Analysis of PZP in Serum: Validation of a Risk Factor for Alzheimer's Disease; Diana Nijholt¹; Christoph Stingl¹; Peter Koudstaal¹; Peter Sillevis Smitt¹; Arfan M. Ikram¹; Theo M. Luider¹; ¹Erasmus MC, Rotterdam, Netherlands

ThP 129 Mass Spectrometry- based Proteomics of Human Breast Milk for Breast Cancer Biomarker Discovery;
Roshanak Aslebagh¹; Devika Channaveerappa¹; Kathleen F. Arcaro²; Costel C. Darie¹; ¹Clarkson University, Potsdam, NY; ²University of Massachusetts, Amherst, Amherst, MA

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Tess Kelly¹; Brooke Thompson¹; Paulos Chumala¹;
Oluwafemi Oluwole¹; Anna Afanasieva¹; Donna Rennie²;
Joshua Lawson¹; George S. Katselis¹; ¹CCHSA/
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of Saskatchewan, Saskatoon, SK, Canada; ²CCHSA and
College of Nursing, University of Saskatchewan, Saskatoon,
SK, Canada

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Eugenie Raphaelle Bérubé¹; Jeff Plomley¹; Milton Furtado¹;
Anahita Keyhani¹; 'Altasciences, Laval, QC, Canada,
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ThP 133 PaperSpray Technology for the Study of Selective High Affinity Ligands (SHALs) and their Metabolites; Maria C. Prieto Conaway¹; Kerry M Hassell²; Rodney Balhorn³;

¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Somerset, NJ; ³SHAL Technologies, Inc., Livermore, CA

ThP 134 Paper Spray Mass Spectrometry for Screening of Antifungal Drugs from Plasma Samples; Christine Skaggs; , Indianapolis, IN

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South Australia, Mawson Lakes Campus, Adelaide 5001,

- Australia; ³Trajan Scientific and Medical, 7 Argent Place, Ringwood, 3134, Australia; ⁴University of Tasmania, Sandy Bay, Hobart, 7005, Australia
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 ¹Algorithme Pharma an Altasciences company, Laval, QC, Canada; ²ITR Laboratories, Montreal, QC, Canada

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Ashland, OH

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- ¹University of Canterbury, Christchurch, Canterbury; ²Syft Technologies Ltd, Christchurch, New Zealand
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- ThP 150 Screening for Water Contaminants by All-Ion Fragmentation in Rhine River Samples; Sylvain Merel¹; Gina Di Napoli-Davis¹; <u>Christian Zwiener</u>¹; ¹Universität Tübingen, Tübingen, Germany
- ThP 151 A Sensitive and Automation Approach Using large Volume Injection System Couple with LC-MS/MS to Analyze Perfluorinated Compounds in Environmental Samples; Wen-Yen Lee¹; Dai-Yong Huang²; Yanan Yang³; Shan-An Chan¹; ¹Agilent Technologies Inc., Taipei, Taiwan; ²Agilent Technologies Ltd. Hong Kong, Hong Kong; ³Agilent Technologies Inc., Santa Clara, CA
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 Karen MacPherson¹; Jack Cochran²; ¹Ontario Ministry of the
 Environment and Climate Change, Toronto, ON, Canada;
 ²VUV Analytics, Inc., Austin, TX
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- ThP 154 Extraction and Analysis of Poly Brominated Diphenyl Ether in Aqueous Samples Using EPA 1614; Rashid Juma¹; Rudolf Addink¹; ¹Toxic Report, Watertown, MA
- ThP 155 Identification of Halogenated Disinfection Byproducts of Nonylphenol in Chlorinated Wastewater Effluent Using a Novel High Resolution GC/Q-TOF; Christiane Hoppe-Jones¹; Sofia Nieto²; Nathan Eno²; Craig Marvin³; Shane Snyder¹; ¹University of Arizona, Tucson, AZ; ²Agilent Technologies, Inc., Santa Clara, CA; ³Agilent Technologies, Inc., Wilmington, DE
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 Bernadette Vogler¹; Christian Götz²; Bernd Kobler³; Heinz Singer¹; ¹EAWAG, Dübendorf, ZH; ²Envilab AG, Zofingen, Switzerland; ³GVRZ, Cham, Switzerland
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- ThP 158 Detection of Novel Perfluorinated Ether Sulfonates in Wildlife in South Carolina and Florida; Jackie Bangma¹; Jessica L Reiner²; Russell H Lowers³; John A. Bowden²; ¹, Charleston, SC; ²National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC; ³Integrated Mission Support Services, Titusville, FL
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 Sarazin¹; Mark Spence²; ¹/RSST, Montreal, Qc; ²/III,
 Manchester, UK
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- Shigeru Suzuki¹; Mari Takazawa¹; Atsuko Hasegawa²; Michiko Uebori¹; Yasuko Yoshida³; Masahiko Takino⁴; Kaori Okubo⁵; Miho Shinomiya⁶; ¹Chubu University, Kasugai, Aichi; ²Kanagawa Environmental Research Center, Hiratsuka, Japan; ³Sumica Chemical Analysis Service Ltd., Tokyo, Japan; ⁴Agilent Technologies Japan Ltd., Hachioji, Japan; ⁵Saga Pharmaceutical Sanitation Center, Saga, Japan; ⁶Saitama Prefectural University, Kasukabe, Japan
- ThP 162 Two-Dimensional Liquid Chromatography Coupled with High-Resolution Mass Spectrometry: Application for Analysis of Complex Surfactant Mixtures in Aquatic Environments; Sarah Choyke¹; Bernadette Vogler²; Gordon Getzinger¹; P. Lee Ferguson¹; ¹Duke University, Durham, NC; ²EAWAG, Dübendorf, ZH
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 Maryam Khaksari¹,²; Lynn R Mazzoleni¹,²; ¹Chemical Advanced Resolution Methods, Michigan Technological University, Houghton, Michigan; ²Department of Chemistry, Michigan Technological University, Houghton, MI
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 Thomas Rusek¹; Jonathan Oyler²; ¹Battelle/ MRICD,
 Aberdeen, MD; ²APG, Edgewood, MD
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- ThP 167 The Analysis of Environmental Samples Using High Resolution Mass Spectrometry to Identify Novel PFAS Compounds; Paul C. Winkler¹; Simon Roberts¹; Craig Butt¹; Christopher Borton¹; ¹SCIEX. Framingham. MA
- ThP 168 Gas Chromatography Mass Spectrometry Analysis of Volatile Arsenic-Sulfur Species in Environments of High Levels of Sulfide; Shelia J Jamison¹; Yaoling Long²; Jianye Zhang¹; ¹Voorhees College, Denmark, SC; ²South Carolina State University, Orangeburg, SC
- ThP 169 High Resolution Mass Spectrometry Discovery of N-Halogenated-Peptides in Drinking Water; Ping Jiang¹; Guang Huang¹; Lindsay Jmaiff Blackstook¹; Xing-Fang Ll²; ¹University of Alberta, Edmonton, Alberta; ²University of Alberta, Edmonton, AB, Canada
- ThP 170 Qualitative Analysis of Halogenated Organic Compounds Unintentionally Generated in Municipal Waste Water Treatment Plants; Mari Takazawa¹; Shigeru Suzuki¹; Takeshi Nakano²; Shinji Tsunoi²; Miho Shinomiya³;
 ¹Chubu University, Kasugai, Japan; ²Osaka University, Research Center for Environmental Preservation, Suita, Japan; ³Saitama Prefectural University, Kasukabe, Japan
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 the Benzene Core; Nadia Sultana¹; Nelson R. Vinueza¹;
 ¹Department of Textile Engineering, Chemistry and Science,
 NC State University, Raleigh, NC
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 Phoebe Zito¹; Huan Chen¹; Amy M McKenna¹; David C
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 Ryan P. Rodgers¹; ¹National High Magnetic Field Laboratory,



- ThP 174 Determination of Per/Polyfluoroalkyl Substances (PFAS) in Water Using HPLC/MS/MS; Tarun Anumol¹;
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 1 Purdue University, West lafayette, Indiana
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 1 Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO; Institute of Chemistry, Chinese Academy of Sciences, Beijing, China; University of Chinese Academy of Sciences, Beijing, China
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 1 Virginia Commonwealth University, Richmond, VA
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- ThP 185 Going Where Few Dare To: Exploring the Intrinsic Reactions of Uranyl-Oxo and -Oxo Hydride Anions with H2O and O; Michael J. Van Stipdonk¹; Evan Perez²; Cassandra Hanley¹; Irena Tatosian¹; Amanda Bubas¹; ¹Duquesne University, Pittsburgh, PA; ²Yale University, New Haven, CT
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 ¹Bergische Universität Wuppertal, Wuppertal, NRW; ²Zeiss SMT GmbH, Oberkochen, Germany
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 ¹Bergische Universität Wuppertal, Wuppertal, NRW;

 ²SCIEX, Concord, ON, Canada
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 1Bergische Universität Wuppertal, Wuppertal, NRW;
 2SCIEX, Concord, ON, Canada
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- Michael J. Van Stipdonk¹; ¹Duquesne University, Pittsburgh, PA: ²Bates College, Lewiston, ME
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 1 Purdue University, West lafayette, Indiana
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- ThP 200 Gas-Phase Synthesis and Reactivity
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- ThP 204 Sequential Conformational Changes in Influenza Hemagglutinin during Fusion Activation; Mark Benhaim; University of Washington, Seattle, WA
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 ¹Northeastern University, Boston, MA; ²Children's Hospital
 Boston and Harvard Medical School, Boston, MA;

 ³Children's Hospital Boston and Harvard Medical School,
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- ThP 211 Development of a Hydrogen Exchange-Mass Spectrometry Method to Predict Aggregation Propensity of Protein Therapeutics; <u>Juan P Rincon</u>¹; Gulsum Meric²; Cesar Calero-Rubio²; Christopher O'Brien²; Anne Robinson³; Christopher J Roberts²; David D Weis¹; ¹University of Kansas, Lawrence, Kansas; ²University of Delaware, Newark, Delaware; ³Tulane University, New Orleans, Louisiana
- ThP 212 HDX-MS Reveals a Common Binding Surface for Endogenous Peptide- and Protein Ligands to the Sortilin Receptor; Esben Trabjerg^{1, 2}; Fredrik Kartberg²; Søren Christensen²; Kasper D Rand¹; ¹Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ²Department of Biologics, H. Lundbeck A/S, Valby, Denmark
- ThP 213 Pulsed HDX Illuminates the Aggregation Kinetics of Alpha Synuclein, the Causative Agent for Parkinson's Disease; Eva T. Illes-Toth¹; Don L. Rempel¹; Michael L. Gross¹; **Washington University in St Louis, St. Louis, MO
- ThP 214 Discovery and Structural Analysis of Selective
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- ThP 217 Effects of N and C Terminal Truncations on Heme
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- ThP 218 HDX-MS and Molecular Dynamics Simulations Provide Complementary Insights Into The Mechanisms of Allosteric Protein Regulation; Yiming Xiao¹; Gary S Shaw²; Lars Konermann²; ¹University of Western Ontario,



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- ThP 227 Epitope Mapping of Malaria Antigens by HDX-MS: DBP and CelTOS from Plasmodium vivax and Plasmodium falciparum; Yining Huang1; Ben Niu1; Jagat Adhikari1; Nicole Salinas²; Darya Urusova³; Niraj Tolia³; Michael L. Gross¹; ¹Washington University in St Louis, St. Louis, MO; ²Washington University School of Medicine, St Louis, MO; ³Washington University School of Medicine, St. Louis, MO
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- ThP 238 **Utilizing High Resolution Accurate Mass for the** Quantitation of Therapeutic Peptides in Human Plasma; Keeley Murphy 1; Jonathan Josephs2; David Brant2; ¹Thermo Fisher Scientific, San Jose, CA; ²ThermoFisher, San Jose, CA
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- ThP 244 High Mass Accuracy/Resolution Mass Spectrometry in Sensitive Analysis of Tropane Alkaloids; Kui Yang¹; Michael Hadwiger¹; Michael Trehy¹; David A. Keire¹; ¹Division of Pharmaceutical Analysis, Office of Testing and Research, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, St. Louis, MO
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 ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher
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- ThP 252 Automatization of Workflow for Complex Mixture
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- ThP 253 Ion Current-based Proteomic Profiling of Mitoxantrone and KX02 Treatment in Mouse Glioma 261 Cells Reveals Elevated Innate Immune Response; Chengjian Tu ¹; Yahao Bu²; Jun Li¹; James Clements²; David Hangauer²; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Athenex Pharmaceuticals LLC, Buffalo, NY

- ThP 254 Monitoring Critical Quality Attributes Supporting Development of Biopharmaceuticals; Sean McCarthy¹; Sibylle Heidelberger²; ¹SCIEX, Frammingham, MA; ²SCIEX, Concord. ON. Canada
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 ¹University of Illinois at Urbana Champaign, Urbana, IL
- ThP 257 ToF-SIMS Investigations of Tip-Surface Chemical Interactions in Atomic Force Microscopy on a Combined AFM/ToF-SIMS Platform; Chance C. Brown^{1, 2}; Anton V. Ievlev¹; Petro Maksymovych¹; Sergei V. Kalinin¹; Olga S. Ovchinnikova¹; ¹Oak Ridge National Lab, Oak Ridge, TN; ²University of Tennessee, Knoxville, TN
- ThP 258 Bioimaging via LA-ICP-MS a Powerful Analytical Tool for the Investigation of the Anti-Cancer Drug Cisplatin;
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 Institute of Inorganic and Analytical Chemistry, University of Muenster, Muenster, Germany; ²University Hospital of Münster, Department of Experimental Nephrology, Muenster, Germany
- ThP 259 Laser Ablation-halo-Flowing Atmospheric Pressure Afterglow-Mass Spectrometry: Method Development and Applications; Valérie Brueckel¹; Michael Sperling²; Jacob Shelley³; Uwe Karst¹; ¹University of Muenster, Institute of Inorganic and Analytical Chemistry, Muenster, Germany; ²European Virtual Institute for Speciation Analysis, Muenster, Germany; ³Rensselaer Polytechnic Institute, Department of Chemistry and Chemical Biology, Troy, NY
- ThP 260 Infrared Laser Ablation Microsampling and Data Independent Acquisition Mass Spectrometry for Tissue Proteomics; Kelin Wang¹; Fabrizio Donnarumma¹; Carson W Szot¹; Michael E. Pettit²; Touradj Solouki²; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA; ¹Baylor University, Waco, Texas
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 Mark Towers¹; Emrys jones¹; Philippa Hart¹; Michael
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- ThP 265 Metabolomic Imaging of Colorectal Liver Metastasis FFPE samples for Biomarker Discovery by Matrix Coating Assisted by an Electric Field (MCAEF)/ LDI-FTICR-MS; Teesha C. Baker^{1, 2}; Adriana Aguilar-Mahecha³; Jun Han¹; Mark Basik³; Christoph H. Borchers¹, ^{2, 3}; ¹University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada; ³Segal Cancer Center, McGill University, Montreal, QC, Canada
- ThP 266 A High Resolution Atmospheric Pressure MALDI-Quadrupole-Orbitrap Platform Enables In Situ Analysis of Biomolecules by Multi-Mode Ionization and Acquisition; Bingming Chen¹; Chuanzi OuYang¹; Zichuan Tian¹; Meng Xu¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
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 Yang¹; Martin Dufresne¹; Pierre Chaurand¹; **Department of Chemistry, Université de Montréal, Montréal, QC, Canada
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 ¹Department of Chemistry and the Beckman Institute,
 University of Illinois at Urbana-Champaign, Urbana, Illinois
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 10 Osaka University, Suita, Osaka; 28 Foods, Itabashi, Japan
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 ¹MSRC Vanderbilt University, Nashville, TN
- ThP 273 Differential Protein Profiling Using Virtual 2D gel-Mass Spectrometry; Neil R. Quebbemann¹; Joseph A Loo¹; Rachel R. Ogorzalek Loo¹; ¹University of California Los Angeles, Los Angeles, CA
- ThP 274 Surface Analysis of Murchison Meteorite with MALDI Stigmatic Imaging Mass Spectrometer; Jun Aoki¹; Yosuke Kawai¹; Kentaro Terada¹; Michisato Toyoda¹; ¹Osaka University, Toyonaka-shi, Osaka
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- Qing He²; Abraham K. Badu-Tawiah³; Zongxiu Nie²; ¹School of Medicine, Johns Hopkins University, Baltimore, MD; ²Institute of Chemistry, Chinese Academy of Sciences, Haidian, China; ³The Ohio State University, Columbus, OH
- ThP 276 Optimized MALDI IMS Protocol for Breast and Ovarian Cancer Tissue Obtained by a Two-Center Method Development And Reproducibility Study;

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- ThP 277 Profiling and Quantification of Endogenous Species in Single Cells by nano-DESI MS; Ingela Lanekoff¹; Hilde-Marléne Bergman¹; ¹Uppsala University, Uppsala, Sweden
- ThP 278 In situ Labeling for the Absolute Quantitation of Crustacean Neuropeptides with Mass Spectrometric Imaging; Amanda Buchberger¹; Lingjun Li¹; ¹University of Wisconsin-Madison, Madison, WI
- ThP 279 Method Development for Quantitative Investigation of Terbinafine Hydrochloride in a 3D Skin Model by MALDI-MSI; Cristina Russo¹; Stephan Rumbelow²; Steve Mellor³; Catherine Duckett⁴; Neil Bricklebank⁴; Malcolm Clench⁴; ¹Sheffield Hallam University, Sheffield; ²Croda Inc. Griffin Innovation Center, New Castle, DE 19720; ³Croda Europe Ltd,, Snaith Goole, UK; ⁴Sheffield Hallam University, Sheffield, UK
- ThP 280 Material Transport in LMD-LVC/ESI-MS and its Impact on Collection Efficiency and Quantitative MS Imaging; John F. Cahill¹; Vilmos Kertesz¹; Gary J. Van Berkel¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- ThP 281 From Imaging Peaks to Molecules: Parallelised MALDI-FTMS-MSI and MS/MS Enables Broad Structure Elucidation and Differential Imaging of Lipid Isomers; Shane R. Ellis¹; Martin R. L. Paine¹; Christer S. Ejsing²; Berwyck Poad³; Stephen J. Blanksby³; Ron M. A. Heeren¹; ¹M4I Institute Maastricht University, Maastricht, Netherlands; ²Department of Biochemistry and Molecular Biology, VILLUM Center for Bioanalytical Sciences University of Southern Denmark, Odense, Denmark; ³Queensland University of Technology, Brisbane, Australia
- ThP 282 Histology Directed Liquid Surface Extractions coupled Directly to Liquid Chromatography for Improving Identification Strategies in Advanced IMS Applications; Daniel Ryan^{1, 2}; David Nei^{2, 3}; Boone Prentice^{2, 3}; Jeffrey Spraggins^{1, 2, 3}; Richard Caprioli^{1, 2, 3, 4, 5}; ¹Department of Chemistry, Vanderbilt University, Nashville, TN; ²Mass Spectrometry Research Center, Vanderbilt University, Nashville, TN; ³Department of Biochemistry, Vanderbilt University, Nashville, TN; ⁴Department of Pharmacology, Vanderbilt University, Nashville, TN; ⁵Department of Medicine, Vanderbilt University, Nashville, TN
- ThP 283 Mass Spectrometry Imaging, Microdissection and Quantitative Proteomics of the Same Tissue Section; Marialaura Dilillo¹; Rima Ait-Belkacem¹.²; Matteo Caleo³; Liam Mcdonnell¹.⁴; ¹Fondazione Pisana per la Scienza ONLUS, Pisa, Italy; ²Imabiotech, Loos, France; ³CNR Neuroscience Institute, Pisa, Italy; ⁴Leiden University Medical Center, Leiden
- FhP 284 Multimodal Imaging of Brain Tissues and Single Cell Populations by Mass Spectrometry and Vibrational Microspectroscopy; Elizabeth Kathleen Neumann¹; Troy J Comi¹; Sanghamitra Deb².³.⁴; Jennifer W Mitchell².³.⁵; Collin Kaufman².³.⁵, Stanislav S Rubakhin¹.²; Rohit Bhargava¹.⁴; Martha U Gillette².³.⁴,⁵, Jonathan V Sweedler¹.⁶; ¹Department of Chemistry and the Beckman Institute, University of Illinois at Urbana–Champaign, Urbana, Illinois; ²University of Illinois at Urbana Champaign, Urbana, IL; ³Beckman Institute, Urbana-Champaign, IL;

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- ThP 285 Multimodal Imaging Combining Mass Spectrometry and Vibrational Spectroscopy Using a Single Tissue Section and an Integrated Data Processing Workflow; Rico Scheier¹; Nicolas Desbenoit¹; Jasmin Kniese¹; Heinar Schmidt¹; Andreas Roempp¹; ¹Bioanalytical Sciences and Food Analysis, University of Bayreuth, Bayreuth
- ThP 286 Rapid Quantitation of NNK and NNAL in Rat Urine Using Ultra- Fast Liquid Chromatography Mass Spectrometry; Estatira Sepehr¹; Matthew S. Bryant¹; ¹Division of Biochemical Toxicology, National Center for Toxicological Research, U.S Food and Drug Administration, Jefferson, AR

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- ThP 288 Quantitation of Endogenous Small Molecules in Different Tumor Models Using Mass Spectrometry Imaging: Fundamental and Practical Aspects; John G. Swales^{1, 2}; Anna Nilsson³; Gregory Hamm¹; Nicole Strittmatter¹; Christopher Hardy¹; Per E. Andren³; Malcolm R Clench²; Richard J. A. Goodwin¹; ¹Astrazeneca, Cambridge, UK; ²Sheffield Hallam University, Sheffield, UK; ³Uppsala University, Uppsala, Sweden
- ThP 289 Direct Drug Analysis in Polymeric Implants using DESI Mass Spectrometry Imaging (MSI); Elizabeth E. Pierson¹; William P. Forrest¹; Megan Mackey¹; Roy Helmy¹; Anthony J. Midey²; Hernando J. Olivos²; Bindesh Shrestha²; ¹Merck Research Laboratories, Rahway, NJ; ²Waters Corporation, Beverly, MA
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 Frapolli¹; Raffaella Giavazzi¹; Paolo Ubezio¹; Maurizio
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 Davoli¹; ¹Mario Negri Institute, Milano; ²Fondazione E.Mach,
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- ThP 291 MALDI Imaging Mass Spectrometry Detection of Intraperitoneally Injected Dipeptide, ZP1609; Jasmine S.-H. Wang¹; John F. Bechberger²; Moises Freitas-Andrade²; Christian C. Naus²; Shawn N. Whitehead¹; Ken K.-C. Yeung¹; ¹University of Western Ontario, London, ON, Canada, Canada; ²University of British Columbia, Vancouver, BC, Canada
- ThP 292 Understanding Drug Deposition and Safety in Lung by Mass Spectrometry Imaging; Gregory Hamm¹; Erica Bäckström²; Tania Baccega²; Anna Nilsson³; Steven Oag²; Nicole Strittmatter¹; Britta Bonn²; Per E. Andren³; Hui Zhang²; Markus Fridén²; Richard J. A. Goodwin¹;

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- ThP 293 MALDI Mass Spectrometry Imaging of Therapeutic Monoclonal Antibody in Multicellular Tumor Spheroids (MCTS); Xin Liu¹; Jessica K. Lukowski¹; Colin Flinders²; Shannon Mumenthaler²; Amanda B. Hummon¹; ¹University of Notre Dame, Notre Dame, IN; ²University of Southern California, Los Angeles, California

- ThP 294 Diagnosis of Aggregation in Pharmaceutical Preparations by Laser Ablation Electrospray Ionization Mass Spectrometry Imaging; Patrick A McVey¹; Katherine-Jo Galayda¹; Gregory K. Webster²; Robert S. Houk¹; ¹Iowa State University, Ames, IA; ²AbbVie, North Chicago, IL
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 ¹Doshisha University, Kyotanabe, Japan; ²Kansai Medical
 University, Hirakata, Japan
- ThP 296 MSI Analysis of Changes in the Lungs as a Result of Inhaled Drug Dosing; Alexander Dexter¹; Rory T Steven¹; Alan M Race¹; Adam J Taylor¹; Aateka Patel²; Lea Ann Dailey^{2, 3}; Josephine Bunch¹; ¹National Physical Laboratory, Teddington, UK; ²King's College London, London, London; ³für Pharmazeutische Technologie und Biopharmazie Martin-Luther-Universität Halle-Wittenberg, Halle (Saale), Germany
- ThP 297 Proteomics and Substrate Based MS Imaging of Xenobiotic Metabolising Enzymes in ex vivo Human Skin and a Human Skin Model; Narciso Couto¹; Jill Barber¹; Richard Bojar²; James Sidaway³; Malcolm Clench⁴; ¹University of Manchester, Manchester, UK; ²Innovenn Ltd, York, UK; ³Phenotox Ltd, Bollington, UK; ⁴Sheffield Hallam University, Sheffield, S Yorks
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 W Towers¹; ¹Waters Corporation, Wilmslow, UK
- ThP 299 Combining Imaging Modalities to Evaluate the Spatial Distributions of SHIV and Antiretroviral Therapies in Putative Viral Reservoirs; Elias Rosen¹; Claire Deleage²; Nicole White¹; Craig Sykes¹; Lourdes Adamson³; Michelle Mathews¹; George Fedoriw¹; Jacob D. Estes²; Paul Luciw³; Angela Kashuba¹; ¹University of North Carolina, Chapel Hill, NC; ²Frederick National Laboratory for Cancer Research, Frederick, MD; ³University of California, Davis, Davis, CA
- ThP 300 Metabolomic Mapping of Mouse Thymus with Imaging Mass Microscope; Yudai Tsuji¹; Nobuto Kakuda¹; Hideshi Fujiwake²; Tomoyuki Nakamura³; Masaya Ikegawa¹; ¹Doshisha University, Kyotanabe, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³Kansai Medical University, Hirakata, Japan
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- ThP 302 Assessing Tissue Region Specific Analyte Suppression in MALDI and DESI Mass Spectrometry Imaging Using Novel Segmentation Based Normalisation Methods;

 Adam J Taylor¹; Alex Dexter¹; Kenneth N Robinson¹.

 2; Josephine Bunch¹; ¹National Physical Laboratory,
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 ¹University of Massachusetts Medical School, Worcester, MA; ²Waters Corp, Milford, MA



- ThP 305 Submicron Imaging of Intact High Mass Biomolecules Using High Energy Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS); Hua Tian¹; Louis Sparvero²; Andrew A. Amoscato²; Valerian E. Kagan²; Hulya Bayir²; Nicholas Winograd¹; ¹Pennsylvania State University, State College, PA; ²University of Pittsburgh, Pittsburgh, PA
- ThP 306 Estimation of Desvenlafaxine in Human K2EDTA Plasma Using LC-MS/MS; Kolli Narendra Kumar Reddy¹; <u>Srinath Nissankararao</u>²; ¹Vikas Group of Institutions, Vijayawada, India; ²Sri Siddhartha Pharmacy College, Nuzvid, India

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 ¹University of Washington, Department of Chemistry,
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- ThP 310 Data-Dependent Scoring Parameter Optimization Using a Spectrum Quality Filter; Hyunjin Jo¹; Eunok Paek¹;

 'Hanyang University, Seoul, South Korea
- ThP 311 Latent Group LASSO Regression to Deconvolve Mixture Spectra from Data-Independent Acquisition for Peptide Identification; Alex Hu¹; William S Noble¹.²; Alejandro Wolf-Yadlin¹.²; ¹University of Washington Genome Sciences, Seattle, WA; ²University of Washington Computer Science and Engineering, Seattle, WA
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 1 University of California, San Diego, La Jolla, CA
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 Birgit Schilling⁶; Olga Vitek²; ¹Mugla University, Mugla,
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 Institute, Cambridge, MA; ⁴North Carolina State University,
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 Institute for Research on Aging, Novato, CA
- ThP 314 MODplus: Towards the Comprehensive Analysis of Post-Translational Modifications in Shotgun Proteomics; Seungjin Na¹; Jihyung Kim²; Eunok Paek²;

 ¹University of California, San Diego, La Jolla, CA; ²Hanyang University, Seoul, South Korea
- ThP 315 Ultra Deep/High Coverage Proteome Data Raises New Challenges for Protein Inference; Simon Davis¹; Philip Charles¹; Benedikt M Kessler¹; Roman Fischer¹; ¹University of Oxford, UK, Oxford, Oxfordshire
- ThP 316 Metrics for Evaluation of Spectral Similarity and Quantitation of Heterogeneity in Mass Spectrometry

 Data; Spencer A Thomas¹; Rory T Steven¹; Alan M Race¹; Alexander Dexter¹; Adam J Taylor¹; Santosh Tirunagari²; Ian S Gilmore¹; Josephine Bunch¹; ¹National Physical Laboratory, Teddington, UK; ²University of Surrey, Guildford,
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- Krzysztof Łącki¹; Błażej Miasojedow¹; Frederik Lermyte²; Dirk Valkenborg^{2, 3}; Frank Sobott^{2, 4}; Anna Gambin¹; ¹Faculty of Mathematics, Informatics, and Mechanics, University of Warsaw, Warszawa, Poland; ²University of Antwerp, Antwerp; ³Hasselt University, Diepenbeek, Limburg; ⁴University of Leeds, Leeds, Yorkshire
- ThP 318 Peptide Collision Cross Section Predictor: Rapid Correlation of Ion Mobility Mass Spectrometry Signal with Analyte Structures via Machine Learning; Xueqin Pang¹; Zichuan Tian²; David Page³,⁴; Lingjun Li¹,²; ¹School of Pharmacy, University of Wisconsin Madison, Madison, WI; ²Department of Chemistry, University of Wisconsin Madison, Madison, WI; ³Department of Biostatistics and Medical Informatics, University of Wisconsin-Madison, Madison, WI; ⁴Department of Computer Sciences, University of Wisconsin-Madison, Madison, Madison, WI
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- ThP 320 Intensity-dependent Mass Search in Liquid Chromatography Mass Spectrometry Based Metabolomics; Yunong Li¹; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada
- ThP 321 MORESSA: An Ensemble Methodology for Simultaneous MS/MS Spectral Similarity Searching and Structure Elucidation; Tytus D. Mak¹; Stephen E. Stein¹; ¹National Institute of Standards & Technology, NIST, Gaithersburg, MD
- ThP 322 Monoclonal Antibody de novo Sequencing by Deep Learning; Hieu Tran¹; Xianglilan Zhang¹; Lei Xin²; Lin He²; Baozhen Shan²; Ming Li¹; 'University of Waterloo, Waterloo, ON, Canada; 'Bioinformatics Solutions Inc, Waterloo, ON, Canada
- ThP 323 Compositional Proteomics: Utilizing Simplicial Regression to Enhance Protein Detection and Estimation in Multiplexed Experiments; Jonathon

 O'Brien¹; Joao Paulo¹; Christopher Rose¹; Steve Gygi¹;

 †Harvard Medical School, Boston, MA
- ThP 324 A New Database Search Scoring Method for Better Identification Performance of Endogenous Small Peptides; Wei-Hung Chang¹; Ying-Lan Chen¹; Yet-Ran Chen¹; 'Academia Sinica, Taipei, Taiwan
- ThP 325 Single-Molecule Protein Identification by Nanopore Sensors; Mikhail Kolmogorov¹; Eamonn Kennedy²; Zhuxin Dong²; Gregory Timp²; Pavel Pevzner¹; ¹Department of Computer Science and Engineering, University of California San Diego, La Jolla, CA; ²Electrical Engineering and Biological Science, University of Notre Dame, Notre Dame, USA
- ThP 326 Flexible Library Assisted SearcH (FLASH): a Hybrid Library/Database Search Engine for Proteomics; Joon-Yong Lee¹; Grant M Fujimoto¹; Christopher S Wilkins¹; Richard Smith¹; Sam Payne¹; ¹Pacific Northwest National Lab, Richland, WA
- The 327 Themis: Batch Pre-Processing for Ultrahigh Resolution Complex Mixture Data; Remy Gavard¹; David Rossell¹.

 2; Simon E F Spencer¹; Mark P Barrow¹; ¹University of Warwick, Coventry, UK; ²Universitat Pompeu Fabra, Barcelona, Spain
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 Askenazi¹; Johannes Graumann².³; Hisham Ben Hamidane²; Anja M. Billing²; Rudolf Engelke²; Sara E. Lendal²; Sunkyu Choi²; ¹Biomedical Hosting LLC, Arlington, MA; ²Weill Cornell Medicine Qatar, Doha, Qatar; ³Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany
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 Arzu Tugce Guler¹; Magnus Palmblad¹; ¹Leiden University

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 1 University of Ottawa, Ottawa, ON, Canada; 2McGill University, Montréal, Quebec; 3Institut de recherches cliniques de Montréal, Montreal, QC, Canada; 4Université de Montréal, Montréal, QC, Canada
- ThP 334 The Database for Mining Biomarkers in the Brain Tumor Tissue Mass-Spectra; Anatoly Sorokin¹; Vsevolod Shurhkhay²; Igor Popov¹; Evgeny Zhvansky¹; Nikita Levin¹; Alexander Potapov²; Eugene (Evgeny) Nikolaev¹.

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 Nicholas Shulman¹; Max Horowitz-Gelb¹; Andreas F Tillack²;
 Michael H Gelb²; Bruce H Robinson²; Brendan MacLean¹;

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 Seattle, WA

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- ThP 338 pClean: A Powerful Filtration to Remove the Uninformative Signals in MS Spectra for Peptide Identification; Yamei Deng^{1,2}; Bo Wen²; Shaoxing Xu²; Lin Wu¹; Yan Ren²; Siqi Liu²; *Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China; *2BGI-Shenzhen, Shenzhen, China
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 1 Northwestern University, Evanston, IL
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 ¹University of Washington, Seattle, WA
- ThP 343 Towards the Smart Lab: A Comprehensive Approach to Mass Spectrometry Quality Control; Wout Bittremieux¹; Dirk Valkenborg²; Kris Laukens¹; ¹University of Antwerp, Antwerp; ²Hasselt University, Diepenbeek, Limburg
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 James D R Knight¹; Guomin Liu¹; Jianping Zhang¹; Joshua Sandor¹; Meghan McFadden¹; Karen Colwill¹; Anne-Claude Gingras¹.²; ¹LTRI, TORONTO, ON, Canada; ²Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada
- ThP 346 MassIVE Data to Knowledge: Large-Scale Reanalysis of Terabytes of Public Human Datasets; Jeremy Carver¹; Mingxun Wang²; Nuno Bandeira²; ¹UCSD, La Jolla, CA; ²UCSD, La Jolla, CA
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- ThP 348 Fast Automated Data Backup and System Suitability
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 San Francisco. CA
- ThP 349 GiaPronto: A One-Click Online Data Analysis and Visualization for Proteomics; Amber K. Weiner^{1, 2, 3}; Simone Sidoli¹; Sharon J. Diskin^{2, 3}; Benjamin A. Garcia¹-³; ¹Epigenetics Institute, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA; ²Division of Oncology, Department of Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA; ³Genomics and Computational Biology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- ThP 350 MassBank of North America: An Open Access Metadata-Centric, Auto-Curating Repository for Mass Spectra from Different Instrument Platforms; Gert Wohlgemuth¹; Sajjan S. Mehta²; Oliver Fiehn¹; ¹UC Davis, Davis, CA; ²University of California, Davis, Davis, CA



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 Frederick M. Hudson¹; Eric Huang¹; Mark Wadsworth²; Judd

 Jenne²; Bruce E. Pirger²; Eric Howard³; Suraj Bhaskaran²;

 Michael Ugarov¹; Jae C. Schwartz¹; Alan E. Schoen¹;

 ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher

 Scientific, Liverpool, NY; ³Opsci, Inc., Cedar Park, TX
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 Kyle L. Fort¹; Michiel van de Waterbeemd¹; Dmitriy Boll²; Maria Reinhardt-Szyba²; Mikhail E. Belov²; Alexander A. Makarov²; Albert J. R. Heck¹; ¹Utrecht University, Utrecht; ¹Thermo Fisher Scientific, Bremen, Germany
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 Nathan Contino¹; Jeff Kernan¹; Harry Prest¹; Bjorn Flatt¹; Bill Russ¹; ¹Agilent Technologies Inc., Santa Clara, CA
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- ThP 360 Longevity Testing of a Prototype Discrete Dynode Detector for Triple Quadrupole Mass Spectrometer; Oleg Silivra¹; Michael Ugarov¹; ¹Thermo Fisher Scientific, San Jose, CA
- ThP 361 Implementation of Dual Detection Method for Miniaturized Time of Flight Mass Spectrometers; Linxia Song¹; Stephanie Mengis¹; Theresa Evans-Nguyen¹; ¹University of South Florida, Chemistry department, Tampa, Florida
- ThP 362 Ultra High Resolution MS Aids Unknown Extractable Component Identification; <u>Kate Comstock</u>¹; Seema Sharma¹; Jesse D. Canterbury¹; Vlad Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose, CA
- ThP 363 Mass Analyzing Cold Ions in a Cryogenic Linear Ion Trap; Larry Tesler¹; Nicolas C Polfer¹; ¹University of Florida, Department of Chemistry, Gainesville, FL

- ThP 364 Development of a Ultrahigh Resolution Multi-reflection Time-of-Flight Mass Spectrometer for Native Mass Spectrometry; Keyong Hou¹; Ping Chen¹; Jichun Jiang¹; Haiyang Li¹; ¹Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- ThP 365 The sTOF, a Favorable Geometry for a Time-Of-Flight Analyzer; <u>Daniel Murphy</u>; NOAA, Boulder, CO
- ThP 366 A Modular Ion Funnel for Improved Sensitivity in Proton-Transfer-Reaction Time-Of-Flight Mass Spectrometry (PTR-TOFMS) Instruments; Alfons Jordan¹; Christian Lindinger¹; Stefan Feil¹; Paul Mutschlechner¹; Gernot Hanel¹; Eugen Hartungen¹; Jens Herbig¹; Lukas Maerk¹; Philipp Sulzer¹; Simone Juerschik¹; ¹IONICON Analytik GmbH, Innsbruck, Austria
- ThP 367 Controlling Kinetic Energies of Ions Radially Ejected from the Linear Ion Trap; Viatcheslav V. Kovtoun; Thermo Fisher Scientific, San Jose, CA
- ThP 368 Coaxial Surface Induced Dissociation of Mass-Selected Ions; Xinwei Liu¹; Xiaoyu Zhou¹; Zheng Ouyang¹.²; ¹State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing, China; ²Weldon School of Biomedical Engineering and Department of Chemistry, Purdue University, West Lafayette, IN
- ThP 369 Particle-in-Cell Simulation of Quadrupolar Ion Detection in the NADEL Cell with Four Detection Electrodes;

 Joshua Driver¹; I. Jonathan Amster¹; Andriy Kharchenko².

 ³; Konstantin O. Nagornov⁴; Anton N. Kozhinov⁴; Yury O. Tsybin⁴; ¹University of Georgia, Athens, GA; ²University of Georgia, Athens, Georgia; ³NAS Institute of Cybernetics, Kyiv, Ukraine; ⁴Spectroswiss Sàrl, Lausanne, Switzerland
- ThP 370 Effect of the Parametric Resonance Suppression and its Use in Linear Ion Tap Mass Spectrometry; Mikhail Sudakov¹; Igor Filippov²; ¹SIMAX-MS, St.Petersburg, Russia; ²MSCUBE, Auckland, New Zealand
- ThP 371 Periodic Auxiliary AC Frequency Scanning for Rapid Mass Spectrometry Analysis; Xinming Huo¹; Fei Tang¹;

 1Tsinghua University, Beijing
- ThP 372 Comprehensive Modeling and Experimental Validation of Ultrahigh Mass Resolution Linear Time-Of-Flight Mass Spectrometry; Yu-Meng Ou¹.²; Yin-Hung Lai¹; Yi-Hong Cai¹; Chih-Hao Hsiao¹; Cheng-Kai Jan¹; Huan-Tsung Chang²; Yi-Sheng Wang¹; ¹Genomics Research Center Academia Sinica, Taipei; ²Department of Chemistry, National Taiwan University, Taipei, Taiwan
- ThP 373 Right Angle Ion Mirror-Prism (RAIMP): Mass Analyzer Combining Slit Spectroscopy with Retarding Electric Fields; Igor V. Veryovkin¹; Luke Hanley¹; ¹University of Illinois at Chicago (UIC), Chicago, IL
- ThP 374 Determination of Ion Secular Frequency Bandwidth in Micro Ion Trap High Pressure Mass Spectrometers; <u>Gregory F. Brabeck</u>¹; J. Michael Ramsey¹; ¹UNC - Chapel Hill, Chapel Hill, NC
- ThP 375 Minimization of Combined Magnetic and Electric Residual Fields to Further Improve the Resolution and Sensitivity in FTICR-MS; Qinghao Wu¹; Jared B Shaw¹; Ljiljana Pasa-Tolic¹; ¹Pacific Northwest National Laboratory, Richland, WA
- ThP 376 Improving the Precision of Quantitative Analysis for Linear Ion Trap Tandem Mass Spectrometry; Linfan Lii'; Cornelia L Boeser'; Jae C Schwartz'; John E Syka';

 1 Thermo Fisher Scientific, San Jose, CA
- ThP 377 Analyzing Large Protein with High Resolution by AMS-200 series: inTrap MALDI Mass Spectrometer; Shih-Chieh Yang¹; Szu-Wei Chou¹; Yao-Hsin Tseng¹; Yi-Kun Lee¹; Chih-kuang Chen¹; Chun-Yen Cheng¹; ¹AcroMass technologies, Inc., Taipei
- ThP 378 The Concept of 3D MR TOF Mass Spectrometry; Yerbol Sapargaliyev^{1, 2}; Aldan Sapargaliyev^{2, 3}; ¹REB, San Jose, Ca;

- ²OiArna LLP, Almaty, Kazakhstan; ³Nazarbayev University, Astana, Kazakhstan
- ThP 379 Buffer Gas Concentration Effects on Collisional Cooling in a Digital Ion Trap; Timothy Vazquez¹; Arik Townsend²; Theresa Evans-Nguyen¹; ¹University of South Florida, Tampa, FL; ²University of South Florida, Tampa, FL
- ThP 380 Improving Quadrupole Performance with a Thin DC Only Quadrupole Prefilter: Achieving High Performance in Tandem Mass Spectrometers with Reduced Size;

 Laura L. Pollum¹; Haopeng Wang¹; Kenneth R. Newton¹;

 James L. Bertsch¹; Shane E. Tichy¹; ¹Agilent Technologies,

 Santa Clara, CA
- ThP 381 CRAFTIEST: Cross Sectional Areas by Fourier
 Transform in Electrostatic Traps; Eric T. Dziekonski¹;
 Joshua T. Johnson¹; Scott A McLuckey¹; ¹Purdue University,
 West lafayette, Indiana
- ThP 382 The Application of Dual Channel High Speed
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 Hidalgo²; Kai Chen²; ¹Agilent Technologies, Santa Clara,
 CA: ²Agilent Technologies Inc.. Santa Clara. CA
- ThP 383 Characterization of Harmonic Signal Acquisition with Parallel Dipole and Multipole Detectors; Sung-Gun Park¹; James Bruce¹; Gordon Anderson²; ¹University of Washington, Seattle, WA; ²GAA Custom Engineering, LLC, Benton. WA
- ThP 384 Digital Waveform Technology and the Next Generation of Instrumentation; Peter T. A. Reilly¹; Katherine G. E. Donahoe²; Nathan Michael Hoffman²; Ashley Marie Moon²; Zachary Philip Gotlib²; Bojana Opacic²; Adam Paul Huntley²; ¹Washington State University, Pullman, WA; ²Washington State University, Pullman, WA
- ThP 385 Characterization and Optimization of Toroidal Trapping Fields using Enhanced SIMION Tools; Robert H. Jackson lii¹; David J. Manura²; Edgar D. Lee³; Stephen A. Lammert³; ¹Instrumental Design Physics, LLC, Littleton, MA; ²Scientific Instrument Services, Inc, Ringoes, NJ; ³PerkinElmer, Inc, American Fork, UT
- ThP 386 Digital Electrode Array for Compact Mass Analysis; <u>Jerome Moore</u>; *Robot Nose, Lemont, IL*
- ThP 387 Generation of Digital Waveforms with High Resolution Duty Cycle; Nathan Michael Hoffman¹; Zachary Philip Gotlib¹; Brian Herbert Clowers¹; Peter T. A. Reilly²;

 1 Washington State University, Pullman, WA; Washington State University, Pullman, WA

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 Zhidan Chen¹; Stephen L. Coy¹; Evan L. Pannkuk².³;
 Evagelia C. Laiakis²; Albert J. Fornace².³; Paul Vouros¹.

 ¹; ¹Department of Chemistry and Chemical Biology,
 Northeastern University, Boston, MA; ²Department of
 Biochemistry and Molecular&Cellular Biology, Georgetown
 University, Washington, DC; ³Tumor Biology Program,
 Lombardi Comprehensive Cancer Center, Georgetown
 University, Washington, DC; ⁴Barnett Institute of Chemical
 and Biological Analysis, Northeastern University, Boston,
- ThP 389 New FAIMS with Heated Electrospray Ionization (HESI) Source for High Chromatographic Flow Rate Application; Satendra Prasad¹; Michael Belford²; Rae Ana Snyder²; Susan E Abbatiello³; Jean-Jacques Dunyach⁴;
 ¹Thermo Fisher Scientific, San Jose, CA; ²ThermoFisher Scientific, San Jose, CA; ³Thermo Scientific, Cambridge, MA; ⁴Thermo Fisher Scientific, San Jose, CA

- ThP 390 A Novel Compact FAIMS Interface for Deeper Proteomic Analyses; Sibylle Pfammatter¹; Eric Bonneil¹; Michael Belford²; Satendra Prasad²; Jean-Jacques Dunyach²; Pierre Thibault¹.³; ¹IRIC-Université de Montréal, Montréal, QC, Canada; ²ThermoFisher Scientific, San Jose, CA; ³Departement Of Chemistry, Université de Montréal, Montréal, QC, Canada
- ThP 391 Strategies for Improving FAIMS Performance for Clinical Applications; Michael Wei¹; Robin H.J.

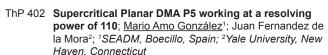
 Kemperman¹; Michael Costanzo²; Jared Boock³; Richard
 A. Yost¹; ¹University of Florida, Gainesville, FL; ²Breathtec
 Biomedical, Inc., Gainesville, Florida; ³Cannabix
 Technologies, Gainesville, Florida
- ThP 392 Mitigating Fragmentation of Peptides with Controlled Clustering; J.C. Yves Leblanc¹; Brendon Seale¹¹²; Bradley B Schneider¹; Aaron Wheeler²; ¹SCIEX, Concord, ON, Canada, ON, Canada; ²University of Toronto, Toronto, ON, Canada
- ThP 393 The Impact of Improved Selectivity through Enhanced Resolution and Field Asymmetric Ion Mobility on Defined Method LOQs and LODs; Hans Schweingruber¹; Michael Belford¹; Satendra Prasad¹; Susan E Abbatiello¹; Claudia Martins¹; Neloni Wijeratne¹; Mary Blackburn²; ¹ThermoFisher, San Jose, CA; ²Thermo Fisher Scientific, San Jose, CA
- ThP 394 APPI-FAIMS-FTMS for the Investigation of Structural Features of Isomeric Crude Oil Constituents; Alessandro Vetere¹; Wolfgang Schrader²; ¹Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany; ²Max-Planck Inst für Kohlenforschung., Mülheim / Ruhr
- ThP 395 How Mass Spectrometer Model and Electrode
 Temperature Determines FAIMS Separation; Michael
 Belford¹; Satendra Prasad¹; Susan E. Abbatiello²; Hoa
 Pham¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo
 Scientific, Cambridge, MA
- ThP 396 Exploring the Separation of Phospholipids Using a Novel FAIMS Device in Conjunction with MS/MS Mode of Analysis; Rae Ana Snyder¹; Satendra Prasad¹; Michael Belford¹; ¹Thermo Fisher Scientific, San Jose, California
- ThP 397 Pre-Filtration of Transition Metals in Differential Mobility Spectrometry: Ifeoluwa Ayodeji¹; Theresa Evans-Nguyen¹; Ronelle Bailey¹; Christina Mancuso¹; ¹University of South Florida. Chemistry department. Tampa . FL
- ThP 398 Separation of Triacylglycerol Positional Isomers in Plants Using Differential Mobility Spectrometry;

 Jesse Balcer¹; Jeffrey Gilbert²; Laura Wayne²; Yelena Adelfinskaya²; Scott Greenwalt²; Daniel Gachotte²; Lisa Buchholz²; ¹Dow AgroSciences, Indianapolis, IN; ²Dow AgroSciences, Indianapolis, IN

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- ThP 400 Towards Serpentine Ultra Long Ion Path for Enhanced Resolution Using Traveling Wave Structures for Lossless Ion Manipulations (SUPER TW-SLIM);

 Ahmed Mohamed Hamid¹; Sandilya V.B. Garimella¹; Yehia M Ibrahim¹; Liulin Deng¹; Aneesh Prabhakaran¹; Ian K Webb¹; Gordon A Anderson¹; Spencer A Prost¹; Randolph V Norheim¹; Jeremy A Sandoval¹; Colby E Schimelfenig¹; Erin S Baker¹; Richard D. Smith¹; ¹Pacific Northwest National Laboratory, Richland, WA
- ThP 401 Evaluation of Pulsed Nano-ESI Atmospheric
 Pressure Ion Mobility MS for Collision Cross Section
 Measurements; William McMahon¹; Rohan Dalvi²; Kaveh
 Jorabchi¹; Georgetown University, Washington, DC;
 Montgomery Blair High School, Silver Spring, MD



- ThP 403 Structural Specificity of Ion Mobility Collision Cross Section for Characterization of Lipids; Jody C. May¹;

 Stacy D. Sherrod¹; Katrina L Leaptrot¹; Charles M. Nichols¹;

 John A. McLean¹; ¹Center for Innovative Technology,

 Vanderbilt University, Nashville, TN
- ThP 404 Simultaneous and Co-located Dual Polarity Ion Confinement and Separation in Traveling Wave-based Structures for Lossless Ion Manipulations (SLIM); Isaac K. Attah¹; Sandilya V.B. Garimella²; Yehia M. Ibrahim²; Ian K. Webb²; Aneesh Prabhakaran²; Richard D. Smith²; Pacific Northwest National Laboratory, Richland, WA; Pacific Northwest National Laboratory, Richland, WA
- ThP 405 Development of Ion-Mobility Orbitrap for Analysis of Large Proteins and Protein Complexes; Michael Poltash¹; David H Russell¹; ¹Texas A&M University, College Station, Texas
- ThP 406 Ion Mobility Spectrometry of Foldamers and Foldaxanes. Optimization of Parameters Used for Theoretical CCS Calculation; Frederic Rosu¹; Yann Ferrand¹; Victor Maurizot¹; Ivan Huc¹; Valérie Gabelica².

 3; ¹CNRS / Univ. Bordeaux, Pessac, France; ²University of Bordeaux, Pessac, FR; ³Inserm, Bordeaux, France
- ThP 407 An Ion Mobility filter based on Structures for Lossless Ion Manipulations (SLIM); Aneesh Prabhakaran¹; Ahmed Mohamed Hamid²; Yehia M Ibrahim²; Sandilya Garimella²; Robert G Ewing²; Blandina R Valenzuela²; Jeremy A Sandoval²; Richard D. Smith²; ¹Pacific Northwest National Laboratory, Richland, WA; ²Pacific Northwest National Laboratory, Richland, WA
- ThP 408 Collision Cross Section Measurement in Traveling
 Wave Ion Mobility Spectrometry: Analytical Comparison
 of Functions for Fitting Calibration Curves; Alana
 L Rister¹; Abby S Gelb¹; Eric D Dodds¹; ¹University of
 Nebraska Lincoln, Lincoln, NE
- ThP 409 Correlating Resolving Power, Resolution, and Collision Cross Section: A Cross Platform Study of Separation Efficiency in Ion Mobility Spectrometry; James Dodds¹; Jody C. May¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN
- ThP 410 Collision Cross Section Calibration with Structures for Lossless Ion Manipulations Mixture Analysis by Traveling Wave Ion Mobility; Ian K. Webb¹; Liulin Deng¹; Ahmed M Hamid¹; Roza Wojcik¹; Erin S Baker¹; Yehia M Ibrahim¹; Richard D. Smith¹; ¹Pacific Northwest National Laboratory, Richland, WA
- ThP 411 Selective Ion-Neutral Clustering to Enhance Ion Mobility Separation Factors; Pearl Kwantwi-Barima; Washington State University, Pullman, WA
- ThP 412 Optimization of Electron Capture Dissociation for the Analysis of Glycans, Peptides, and Proteins Using a IM-QTOF Mass Spectrometer; James A. Hill¹; Rebecca S. Glaskin¹; Valery G. Voinov²; Joseph S. Beckman²; Catherine E Costello¹; ¹Boston University School of Medicine, Boston, MA; ²e-MSion, Corvallis, OR
- ThP 413 Accurate Absolute Collision Cross Sections via the "CRAFTI" FTICR Linewidth Technique; Anupriya Anupriya¹; Elaura Gustafson¹; David V. Dearden²; ¹Brigham Young University, Provo, UT; ²Brigham Young University, Provo, UT
- ThP 414 Determining the Upper-Mass Limit for Obtaining
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 Anupriya¹; 'Brigham Young University, Provo, UT
- ThP 415 Identification of Isomers by Fingerprint Isotopic Fine

- Structure in High-Resolution FAIMS Spectra; Julia L. Kaszycki¹; Matthew A. Baird¹; Andrew P. Bowman¹; Alexandre Shvartsburg²; ¹Wichita State University, Wichita, KS; ²Wichita State University, Wichita, KS
- ThP 416 Exploring Dendrimers as Calibrants for Ion MobilityMass Spectrometry; Scott M. Grayson¹; Michael Malkoch²,
 3; Jamie Godfrey³; Surinthra Mongkhontreerat³; Nick
 Tomczyk⁴; Jakub Ujma⁴; Kevin Giles⁴; ¹Tulane University,
 New Orleans, LA; ²KTH Royal Institute of Technology,
 Stockholm, Sweden; ³Polymer Factory Sweden AB,
 Stockholm, Sweden; ⁴Waters Corp., Wilmslow, UK
- ThP 417 Conformational Dynamics in Ion Mobility Data; Poyer Salomé¹; Comby-Zerbino Clothilde²; Choi Chang Min²; MacAleese Luke²; Salpin Jean-Yves¹; Dugourd Philippe²; Fabien Chirot³; ¹LAMBE, Université Evry Val d'Essonne, CEA, CNRS, Université Paris-Saclay, Evry, France; ²Institut Lumière Matière, Université de Lyon, Université Lyon 1, CNRS, Lyon, France; ³Institut des Sciences Analytiques, Université de Lyon, Université Lyon 1, Ens de Lyon, CNRS, Lyon, France
- ThP 418 Quantitative Ion Mobility-Mass Spectrometry for Identifying Protein/Peptide Conformation/Multimer Ions; KENT GILLIG1; Chung-Hsuan Chen1; 1/Academia Sinica, Taipei, Nankang, Section 2, Taipei 115
- ThP 419 Collision Cross Sections of Polyoxometalates: Linking Experimental and Theoretical Values; Sébastien

 Hupin¹; Hélène Lavanant¹; Madeleine Piot²; Guillaume
 Izzet²; Carlos Afonso¹; ¹Normandie Univ., UNIROUEN,
 INSA Rouen, CNRS, COBRA, 76000 Rouen, France;
 ¹Institut Parisien de Chimie Moléculaire UMR CNRS 8232,
 Sorbonne Universités, UPMC-Paris 6, 4 Place Jussieu,
 75005 Paris, France
- ThP 420 New Developments in Gated Trapped Ion Mobility Spectrometry for Coupling with FT-ICR Mass Analyzers;

 Mark Ridgeway¹; Mel Park¹; ¹Bruker Daltonics Inc., Billerica,
 MA
- ThP 421 True vs. Average Mobility. New developments in Ion Mobility Separation; Carlos Larriba Andaluz¹; Tianyang Wu²; ¹IUPUI, Indianapolis, IN; ²IUPUI, Indianapolis, IN
- ThP 422 A Comparison of Collision Cross Section Calibrants for Traveling Wave Ion Mobility Spectrometry Reveals Significant Discrepancies between Molecular Classes; Eric D. Dodds¹; Alana L. Rister¹; Abby S. Gelb¹; ¹University of Nebraska Lincoln, Lincoln, NE

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- ThP 424 High-Throughput Comprehensive Analysis of Trace D- and L- Amino Acids Using Extra-Facile Chiral Separation and Column Switching; Yuki Uno¹; Toshikazu Minohata¹; Jun Watanabe¹; Hidetoshi Terada¹.²; Junko lida¹.²; Yosuke Nakano³; Eiichiro Fukusaki².³; ¹Shimadzu Corporation, Kyoto, Japan; ²Osaka University Shimadzu Analytical Innovation Research Laboratory, Graduate School of Engineering, Osaka University, Suita, Japan; ³Department of Biotechnology, Graduate School of Engineering, Osaka University, Suita, Japan
- ThP 425 Open Data Standard for LC/MS Data, Methods, and Results; David Peterson¹; Heiko Fessenmayr²; ¹Agilent Technologies Inc., Santa Clara, California; ²Agilent Technologies, Inc., Santa Clara, CA
- ThP 426 Taking Nano Liquid Chromatography Coupled to Mass Spectrometry One Step Closer to the Clinics; Ole Kristian Brandtzaeg¹; Meire Ribeiro da Silva¹.²; Tore Vehus¹; Hanne Roberg-Larsen¹; Elsa Lundanes¹; Steven Ray

- Wilson¹; ¹University of Oslo, Oslo, Oslo; ²Universidade de São Paulo USP, Sao Paulo, Brazil
- ThP 427 Determination of Isoflavones in Dietary Supplements: a Comparison of Mass Detection with UV Detection; Jinchuan Yang¹; Mark Benvenuti¹; Kenneth Rosnack¹; Ramesh P Rao²; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Stamford Avenue, Altrincham Road, Wilmslow, UK
- ThP 428 High-Throughput Strategies for Label-Free and SILAC LC-MS/MS Proteomics; <u>Yuan-wei David Nei</u>¹; Rey Redha¹; Carrie E. Romer¹; Jamie L. Allen²; Danielle B. Gutierrez²; Tina Tsui²; Michael R Heaven³; Jeremy L. Norris²; Richard M. Caprioli²; <u>MSRC Vanderbilt University, Nashville, TN; MSRC Vanderbilt University, Nashville, TN; Vulcan Analytical, LLC, Birmingham, AL</u>
- ThP 429 Discovery Ion Current A Novel Approach to Plot Total Ion Current Real-Time by Enhancing Signal from Newly Detected Ions; Lawrence Klecha¹; Daniel Eikel¹; ¹Advion Inc., Ithaca, NY
- ThP 430 Selectivity Comparison of BromoBenzyl(PBr) to FluoroPhenyl(PFP) Core-Shell HPLC Columns; Ken_
 Tseng¹; Toshi Ono¹; Tsunehisa Hirose²; ¹Nacalai USA, San Diego, CA; ²Nacalai Tesque, Kyoto, Japan
- ThP 431 How Combined New Approaches Can Improve
 Quantitative and Qualitative LC-MS; Stephan Altmaier¹;
 Hans Griesinger¹; Michael Schulz¹; ¹Merck KGaA,
 Darmstadt, Germany
- ThP 432 Spectrum Evaluation for the 2017 Released NIST Tandem MS Library; Yuxue Liang¹; Pedatsur Neta²; Xiaoyu Yang²; Stephen E Stein²; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²National Institute of Standards and Technology, Gaithersburg, MD
- ThP 433 Measurement of Amino Acid Modification after Fast Photochemical Oxidation of Proteins Utilizing Online Low-Flow Size Exclusion Chromatography; Sandeep K Misra¹; Joshua S. Sharp¹; **University of Mississippi, Oxford, MS
- ThP 434 Chromatographic Behaviour of PTM-Carrying Peptides in Proteomic Experiments (RPLC, HILIC, CZE); Vic Spicer¹; Haley Neustaeter¹; Evelyn Ang¹; Ying Lao¹; Helene Perreault¹; Oleg V. Krokhin²; ¹University of Manitoba, Winnipeg, MB; ²University of Manitoba, Winnipeg, MB
- ThP 435 Automated Targeted Screening of Leachables in Pharmaceutical Drug Products by Single Quadrupole Mass Spectrometer System; Syed Salman Lateef'; Siji Joseph¹; ¹Agilent Technologies India, Bangalore, India
- ThP 436 Method for Quick and Efficient Packing of 50 cm
 Capillary Liquid Chromatography Columns for MassSpectrometry Based Proteomics; Sergey I. Kovalchuk¹;
 Wojciech Michalak¹; Adelina Rogowska-Wrzesinska¹; Ole N.
 Jensen¹; ¹Univ. Southern Denmark, Odense, Denmark
- ThP 437 Eliminating a Common Yet Obscure Noise Source in LCMS and ICPMS; Robert Cunico¹; Michael J Pinkerton¹; Steve Graham¹; ¹ASI, Inc., Richmond, CA
- ThP 438 2D-LC/MS Analysis of Fosfomycin Trometamol and Related Substances in Stress Testing Solvent; Nan Hu¹; Xialong Zuo¹; ¹Agilent Technologies, Beijing, China
- ThP 439 Revealing Hidden Impurities in Bio-Pharmaceuticals by Multi-Dimensional Chromatography Preceding ESI-MS; Stephan Buckenmaier 1; Dwight Stoll2; Patrik Petersson3; 1Agilent, Waldbronn, Baden-Wuerttemberg; 2Gustavus Adolphus College, Saint Peter, MN; 3Novo Nordisk A/S, Måløv, Denmark
- ThP 440 Toward Rapid Structure Elucidation of Cyclic Peptide Late Stage Functionalization using UPLC-HRMS with Customizable Reaction-Driven Data Processing; Jason Hoar¹; Fabien Fontaine²; Mikhail Reibarkh¹; Yong Liu¹; Ismael Zamora²; Shane Krska¹; Christopher Sinz¹; Kevin Bateman¹; ¹Merck & Co., Inc, Rahway, NJ; ²Molecular Discovery, London, UK

ThP 441 The Development of a Method for the Determination of Cortisol and 6-Beta-Hydroxycortisol in Human Urine Using 2-D Chromatography; Jeff Jeppson¹; Elizabeth Dibbern¹; Ridha Nachi¹; Curtis Sheldon¹; ¹Celerion, Lincoln, NE

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- ThP 443 Dynamic and Temporal Assessment of Human Dried Blood Spot MS/MSALL Shotgun Lipidomics Analysis;
 Fei Gao¹; Justice McDaniel¹; Emily Y Chen¹; Hannah Rockwell¹; Jeremy Drolet¹; Vivek K Vishnudas¹; Vladimir Tolstikov¹; Rangaprasad Sarangarajan¹; Niven R Narain¹; Michael A Kiebish¹; ¹Berg, LLC, Framingham
- ThP 444 Elongation of Very Long Chain Fatty Acids (ELOVL)
 Isozymes Activity A Lipidomics Approach Using
 Infusion-Based MS/MSALL; Goncalo Vale¹; Matthew
 Mitsche¹; Bonne Thompson¹; Kaitlyn Eckert¹; Alex Treacher¹;
 William Trenfield¹; Young-ah Moon¹; Jeffrey McDonald¹; ¹UT
 Southwestern, Dallas, TX
- ThP 445 LC-MS Analysis of Lipids Nanoparticles (LNPs): One Shot, Four Lipids; jiang qian¹; Kanwaldeep Gill¹; Zi Wang¹;

 ¹GSK Vaccines, Rockville, MD
- ThP 446 Comparison of Eight High-Resolution LC-MS Platforms Validates Accurate Quantifications in Untargeted Plasma Lipidomics; Tomas Cajka¹; Jennifer T Smilowitz².
 ³; Oliver Fiehn¹; ¹NIH West Coast Metabolomics Center, University of California Davis, Davis, CA; ²Department of Food Science and Technology, University of California Davis, Davis, CA; ³Foods for Health Institute, University of California Davis, Davis, CA
- ThP 447 Development of an Integrated Workflow for Profiling and Semi-Quantitative Analysis of Lipids; Sheher Bano Mohsin¹; Kevin Williams²; Durairaj Renu³; Ningombam Sanjib Meitei⁴; Shyam Kalakoti³; Stephen Madden⁵; ¹Agilent Technologies Inc., Wood Dale, IL; ²UCLA, Los Angeles, California; ³Strand Life Sciences, Bengaluru, India; ⁴PREMIER Biosoft, Indore, India; ⁵Agilent Technologies Inc., Santa Clara, California
- ThP 448 Investigating the Lipidomic Dynamics of Torpor through Examination of Hibernating Squirrel Liver Tissue and Dehydrated Frog Leg Tissue; Katrin Blank¹; Sam Williamson¹; Hillary Weinert¹; Carlos R. Canez¹; Kenneth Storey¹; Jeffrey C. Smith¹; ¹Carleton University, Ottawa, ON, Canada
- ThP 449 Structural Characterization of Bioactive Fatty Acid Isomers Using Liquid Chromatography–Differential Mobility Spectrometry and Electron-Induced Dissociation Mass Spectrometry (LC-DMS-EID);

 Kazutaka Ikeda¹.²; Shuh Yasuda¹; Yuuya Senoo¹; Makoto Arita¹.².³; J. Larry Campbell⁴; J.C. Yves Leblanc⁴; Paul Rs Baker⁵; Takashi Baba⁴; ¹RIKEN Center for Integrative Medical Sciences, Yokohama, Japan; ²Yokohama City Univ., Yokohama, Japan; ³Keio University, Tokyo; ⁴SCIEX, Concord, ON, Canada; ⁵SCIEX, Redwood City, CA
- ThP 450 Development of a High-Sensitivity Method for Lipidomics of Small Volumes of Biological Fluids by nanoLC-MS; Adriana Zardini Buzatto¹; Jaspaul Tatlay¹; Brian Kwon²; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada; ²University of British Columbia, Vancouver, BC, Canada
- ThP 451 Investigation of Brain Tumors by Online Liquid Extraction Combined with ESI Ionization and Ultrahigh Resolution FTICR Mass Spectrometry; <u>Igor Popov</u>^{1, 2, 3};



- ThP 452 Characterizing Human Meibum by Shotgun Lipidomics, MS/MSall and Successive Polarity Switching; Jianzhong Chen¹; Kelly K Nichols²; ¹University of Alabama at Birmingham, Birmingham, AL; ²University of Alabama at Birmingham, Birmingham, AL
- ThP 453 Acoustically-induced Electrospray Mass Spectrometry of Extracellular Vesicle Lipids; Xabier Osteikoetxea¹; Martin Bachman¹; Ian Sinclair¹; Nikki Heath¹; Lois Grant¹; Jonathan Wingfield²; Niek Dekker³; Ross Overman¹;

 ¹AstraZeneca R&D, Alderley Park, UK; ²AstraZeneca R&D, Cambridge, UK; ³AstraZeneca R&D, Gothenburg, Sweden

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- ThP 454 Open-Source Lipidomics Software for Rapid Semi-Quantification and Visualization; Jason A. Cochran¹; Jeremy Koelmel²; John A. Bowden³; Richard A Yost²; Timothy J. Garrett².⁴; ¹University of Florida, College of Engineering, Gainesville, FL; ²University of Florida, Department of Chemistry, Gainesville, FL; ³National Institute of Standards and Technology, NIST, Hollings Marine Laboratory, Charleston, SC; ⁴University of Florida, Clinical and Translational Science Institute, Gainesville, FL
- ThP 455 A Novel LC-MS/MS Method for Ganglioside Profiling of Glaucoma Disease in Mice; Ashta Lakshmi Prasad Gobburi¹; Denise Inman²; David J Anderson¹; ¹Cleveland State University, Department of Chemistry, Cleveland, OH; ²Northeast Ohio Medical University, Rootstown, Ohio
- ThP 456 Challenges for the Quantification of DMG-PEG GM-020 in Mouse Plasma by HPLC-MS/MS; Lijuan Fu¹; Bryce Ashby¹; Shawn Burton¹; Qian Guo¹; Scott Reuschel¹; Min Meng¹; Aihua Liu¹; ¹Covance, Salt Lake City, UT
- ThP 457 High Throughput Lipid Identification and Quantification Using a Directed HRAM LC-MS-MS approach on a Modified Quadrupole-Orbitrap Mass Spectrometer;
 Reiko Kiyonami¹; David Peake¹; Andreas F. Huhmer¹;
 ¹ThermoFisher Scientific, San Jose, CA
- ThP 458 Locating Apolipoprotein A2 Protein in the Central Nervous System; Sausan Azzam¹,²; Xiaolin Li¹,²; Mark R. Chance¹,²; Kingman P. Strohl³; ¹Center for Proteomics and Bioinformatics, Case Western Reserve University, Cleveland, OH; ²Department of Nutrition, Case Western Reserve University, Cleveland, OH; ³Department of Medicine, University Hospitals Case Medical Center, Cleveland, OH
- ThP 459 Development of an HILIC Based LC-MS/MS for High-Throughput Targeted Lipidomics; Junhua Wang¹; Mackenzie Pearson¹; Paul Rs Baker¹; ¹SCIEX, Redwood City, CA
- ThP 460 Identification and Quantification of Esterified Hepoxilin A3 in the ileum of Mice after Total Body Irradiation Using Oxidative Phospholipidomics; Yulia Y Tyurina¹; Vladimir A Tyurin¹; Andrew A Amoscato¹; Tami Anthonymuthu¹; Michael W Epperly¹; Simon S Watkins¹; Joel S Greenberger¹; Hülya Bayir¹; Valerian E Kagan¹; ¹University of Pittsburgh, Pittsburgh, PA
- ThP 461 Towards Quantitative Analysis of MALDI Mass Spectral Data Using linear Poisson Independent Component Analysis; Somrudee Deepaisarn¹; Adam McMahon¹; Neil

- A. Thacker¹; Paul D. Tar¹; Ashley Seepujak¹; ¹University of Manchester, Manchester, UK
- ThP 462 Dysregulated Lipid Profiles of Non-Alcoholic Fatty Liver Disease (NAFLD); Timothy J Garrett¹; Rainey E Patterson²; Baljit Ubhi³; Ken Cusi⁴; ¹Univ of Florida, Gainesville, FL; ²Eastman Chemical Company, Kingsport, TN; ³SCIEX, Redwood City, CA; ⁴University of Florida, Gainesville, FL
- ThP 463 Cardiolipin Remodeling in the Developing Brain after Trauma; Tamil S Anthonymuthu¹; Honglu Chao^{2, 3}; Andrew A Amoscato²; Jing Ji³; Valerian E Kagan²; Hülya Bayır²;

 1 University Of pittsburgh, Pittsburgh, PA; 2 University of Pittsburgh, Pittsburgh, PA; 3 Nanjing Medical University, Nanjing, China
- ThP 464 The Unusual Ionization Behavior of Ceramides on Sciex 6500QTRAP Instrument during LC-MS/MS Analyses; Irina Bronova¹; John Jung¹; Evgeny Berdyshey¹; ¹National Jewish Health. Denver. CO
- ThP 465 Untargeted Metabolomic Analysis of omega-3 Ethyl Ester Supplementation; Stacy Gelhaus¹; Francisco J. Schopfer¹; Sonia R. Salvatore¹; Carsten Skarke²; ¹Univ of Pittsburgh, Pittsburgh, PA; ²University of Pennsylvania, Philadelphia, PA
- ThP 466 Novel Method for Total Butyrate Quantification in Human Milk Using GC-MS; Stephanie P. Shu¹; Judy Cundiff¹; Michael Gray¹; Sarah Maria¹; Shay Phillips¹; Ardythe L. Morrow²; ¹Mead Johnson Nutrition, Evansville, IN; ²Cincinnati Children¹s Hospital Medical Center, Cincinnati. OH
- ThP 467 Contribution of Biosynthesis vs Remodeling to the Diversity of Cardiolipins in Genetically and Nutritionally Manipulated Yeast Cells: Differential LC-MS Assessments; Vladimir A. Tyurin¹; Yulia Y. Tyurina¹; Wenjia Lou²; Feng Qu¹; Jenney Liu³; Maik Hüttemann³; Dariush Mohammadyani¹.⁴; Michael A. Frasso¹; Peter Wipf¹; Hülya Bayir¹; Miriam L. Greenberg³; Valerian E. Kagan¹; ¹University of Pittsburgh, Pittsburgh, PA; ²Wayne State University, Detroit , MI; ³Wayne State University, Detroit, MI; ⁴Johns Hopkins University, Baltimore, MA
- ThP 468 Diagnostic Evaluation of Steroidomics in a
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 University, Uppsala, Sweden
- ThP 469 Optimization of LC-ESI-MS Methods for Targeted and Semi-Targeted Screening of N-acyl Phosphatidylethanolamines in Mouse Brain Tissue;

 Theresa Mclaughlin¹; Ludmila Alexandrova²; Allis Chien²;

 ¹Stanford University, Palo Alto, CA; ²Stanford University,
 Stanford, CA
- ThP 470 Quantitative Analysis of Bis(monoacylglycero) phosphate and Phosphatidylglycerol Isomers by Shotgun lipidomics after One-step Methylation; Miao Wang¹; Xianlin Han¹; ¹Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL
- ThP 471 A Miniaturized LC-MS/MS Platform for In-Depth Quantitative Profiling of Endocannabinoids and Related N-Acylethanolamines in Human Cerebrospinal Fluid; Vasudev Kantae¹; Shinji Ogino¹; Marek Noga¹; Amy C Harms¹; Robin M. van Dongen²; Gerrit L. J. Onderwater²; Arn M. J. M. van den Maagdenberg²; Gisela M. Terwindt²; Mario van der Stelt¹; Michel D. Ferrari²; Thomas Hankemeier¹; ¹Leiden University, Leiden, Netherlands; ²Leiden University Medical Center, Leiden, Netherlands
- ThP 472 Accumulation of Oxygenated
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 A Amoscato¹; David R Emlet³; John A Kellum³; Sally E
 Wenzel²; Hülya Bayir³; Valerian E Kagan¹; ¹Departments

- of Environmental and Occupational Health, University

 Spectrometry; Ekta Patel¹; Simona Salive
 of Bittchurch, Bittchurch, PA: 2Department of Medicine

 Foreforders: Joan Rostard Escalas³: Joan Rostard Escalas³: Joan
- of Pittsburgh, Pittsburgh, PA; ²Department of Medicine, University of Pittsburgh, Pittsburgh, PA; ³Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA ThP 473 Global Profiling of FPP/GGPP-Protein Interactome in
- ThP 473 Global Profiling of FPP/GGPP-Protein Interactome in Liver via BSS-based Affinity Purification and Mass Spectrometry; Jingzi Zhang¹.²; Lei Fang¹.²; Chaojun Li¹.²; ¹The Medical School of Nanjing University, Nanjing, China; ²Model Animal Research Centre of Nanjing University, Nanjing, China
- ThP 474 Lipidomic Profiling of Targeted Oxylipins in Human Plasma with Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry ; Zhi-Xin Yuan¹; Christopher E Ramsden¹; ¹Lipid Mediators, Inflammation and Pain Unit, Laboratory of Clinical Investigation, National Institute on Aging, NIH., Bethesda, MD

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 Savannah Snyder¹; Huiming Xiong²; Chrys Wesdemiotis³;
 ¹The University of Akron, Akron, Ohio; ²Shanghai Jiao Tong University, Shanghai, China; ³The University of Akron, Akron, OH
- ThP 476 Nanoparticle Microarray for High-Throughput
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 Emilia Dueñas¹; Rebecca Hansen¹; Young-Jin Lee¹; ¹lowa
 State University, Ames, IA
- ThP 477 Development of a Nanodiamond-based Multifunctional Platform for Bacteria Sensing, Identification, and Disinfection; Chih-Che Wu; Department of Applied Chemistry, National Chi Nan University, Puli, Taiwan
- ThP 478 AP-MALDI-Q-IMS-TOF MS as a Liquid Sample Mass Profiling Platform for Food Authenticity Tests; Oliver John Hale¹; Michael Morris²; Rainer Cramer¹; ¹University of Reading, Reading, UK; ²Waters Corporation, Wilmslow, UK
- ThP 479 Imaging Nanoparticle Drug Delivery Systems, their Cargo, and their Effect on Tissue Biochemistry by MALDI-MS; Kristen Sikora¹; Laura Castellanos¹; Ying Jiang¹; Joseph Hardie¹; Vincent M Rotello¹; Richard W Vachet¹; ¹University of Massachusetts Amherst, Amherst, MA
- ThP 480 Investigation of the Binding Character of Potential Five Lipoxygenase Enzyme Inhibitors with On-Target Incubation; Michael Ruehl¹; Benjamin Kuehn¹; Ute Bahr¹; Bettina Hofmann¹; Dieter Steinhilber¹; Michael Karas¹; ¹Goethe-University, Frankfurt am Main, Germany
- ThP 481 Electron Transfer Ionization in MALDI-MS Using π-Extended Fluorenes as Matrices; Juan S. Ramirez¹; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia
- ThP 482 Cholesterol, Phospholipids and Glucose Detection in Vitreous Humor from Diabetic Human Donors;

 <u>Abigail Schnepf</u>; M Cecilia Yappert¹; Douglas Borchman¹;

 ¹University of Louisville, Louisville, KY
- ThP 483 MALDI MS Profiling of Serum Extracts to Identify Galactomannan Enzyme Immunoassay False Positivity via Immunoglobulin Products; Matthew E. Openshaw¹; Tom K. Abban¹; Rebecca Gorton²; Simona Salivo¹; Ekta Patel¹; Emanuele Barborini³; Timothy D. McHugh⁴; Emmanuel Wey⁴.⁵; ¹Shimadzu, Manchester, UK; ²Health Services Laboratories (HSL), London, UK; ³Tethis SpA, Milan, Italy; ⁴Centre for Clinical Microbiology, Division of Infection and Immunity, University College London, London, UK; ⁵Royal Free London NHS Trust Department of Clinical Microbiology, London, UK
- ThP 484 Identification of Lipid Biomarkers of Human Inflammatory Bowel Disease Using Imaging Mass

- Spectrometry; Ekta Patel¹; Simona Salivo¹; Roberto Fernández²; Joan Bestard-Escalas³; Jone Garate²; Albert Maimó-Barceló³; Daniel H. López³; Sam Khorrami³.⁴; Daniel Ginard³.⁴; Gwendolyn Barceló-Coblijn³; José A. Fernández²; ¹Shimadzu, Manchester, UK; ²Dep. of Physical Chemistry, Fac. of Science and Technology, University of the Basque Country (UPV/EHU), Barrio Sarriena, Spain; ³Research Unit, Hospital Universitari Son Espases, Institut d'Investigació Sanitària de Palma (IdISPa), Palma, Spain; ⁴Gastroenterology Unit, Hospital Universitari Son Espases, Palma, Spain
- ThP 485 Study of Oxidative Damage from Radiotherapy in HCT116 Spheroids by MALDI Imaging; Amaia Carrascal

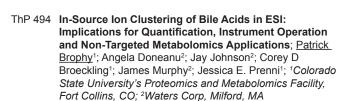
 Minino¹; Fiona Henderson¹; Somrudee Deepaisarn¹; Kaye
 J Williams²; Adam McMahon¹; ¹Wolfson Molecular Imaging
 Centre, CRUK/EPSRC Imaging Centre of Cambridge &
 Manchester, The University of Manchester, Manchester, UK;

 ²Manchester Pharmacy School, University of Manchester,
 Manchester, UK
- ThP 486 Analysis of Chlorophylls in Spinach (Spinacia oleracea) by Electron Transfer Ionization; Juan S. Ramirez¹; Yoleisy Orduz¹; Julio R. Pinzón¹; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia
- ThP 487 FTICR MALDI Analysis for Protein Footprinting and for Probing the Interaction of Warfarin with Vitamin K Epoxide Reductase; Jerry Jiang; Washington University in St. Louis, St. Louis, MO
- ThP 488 A Simplified Expedited Screening of Haemoglobinopathy and Pre-Diabetes in Whole Blood Using MALDI MS; Tom K. Abban¹; Suzanne M. Docherty²³; Jason K. Iles³-, Simona Salivo¹; Matthew E. Openshaw¹; Ray K. Iles³-, Shimadzu, Manchester, UK; Department of Haematology, Addenbrookes Hospital, Cambidge, UK; MAP Sciences Ltd, Bedford, UK; Department of Biotechnology and Chemical Engineering University of Cambridge, Cambidge, UK
- ThP 489 Clinical Top-down Proteomics for Rapid Detection and Isotyping of Monoclonal Gammopathies; Surendra Dasari¹; John R. Mills¹; Mindy C. Kohlhagen¹; David R. Barnidge¹; Angela Dispenzieri¹; David L. Murray¹; ¹Mayo Clinic, Rochester, MN
- ThP 490 Sweet Beats! N-Glycan Changes in Allograft and Xenograft Heart Valves by MALDI Imaging Mass Spectrometry; Peggi Angel¹; Anna Biemann²; Connor West¹; Kacey Talbot¹; Richard R Drake¹; Elizabeth Greene³; Lia H. Campbell³; Ulrich A Stock²; Kelvin Brockbank³; ¹Medical University of South Carolina, Charleston, SC; ²Royal Brompton and Harefield Foundation Trust, Imperial College, and Magdi Yacoub Institute, London, UK; ³Tissue Testing Technolgoies, LLC, Charleston, SC
- ThP 491 Optimized MALDI-TOF Mass Spectrometry Workflow for Biomarker Discovery in Unfractionated Serum;
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- ThP 493 Mapping of Greek Olive Oil Using FT-ICR Mass Spectrometry Flow Injection Analysis and Multivariate Data Analysis; Matthias Witt¹; Theodora Nikou²; Aiko Barsch¹; Christopher J Thompson³; Maria Halabalaki²;

 ¹Bruker Daltonik GmbH, Bremen, Germany; ²University of Athens, Athens, Greece; ³Bruker Daltonic, Billerica, MA



ThP 495 Discovery Single-cell Mass Spectrometry Profiles Metabolic Gradients in the 16-cell Vertebrate (Frog) Embryo; Erika P Portero¹; Rosemary Masu Onjiko¹; Sally A Moody¹; Peter Nemes¹; ¹George Washington University, Washington, DC

ThP 496 Metabolic Signatures Reveal Exercise Training on Fatty Acid β-Oxidation in db/db Type 2 Diabetes Mellitus Mice; Zongwei Cai¹; Li Xiang¹; ¹Hong Kong Baptist University, Kowloon Tong, Kowloon, China

ThP 497 A Novel Labeled Metabolomics Workflow applying Isotope Ratio Outlier Analysis (IROA) and SWATH® Acquisition for Unambiguous Compound Identification;

Baljit Ubhi¹; Felice de Jong²; Chris Beecher².³; ¹SCIEX, Redwood City, CA; ²IROA Technologies, Bolton, MA; ³University of Florida, Gainesville, FL

ThP 498 Untargeted Metabolomic Analysis of Porcine Serum and Oral Fluid with a MLV Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Vaccine; Aislinn A Pomfret¹; David J Borts¹; Jeffery J Zimmerman¹; Yuly A Henao Diaz¹; Luis G Giménez-Lirola¹; Ting-Yu Cheng¹; ¹lowa State University, Ames, IA

ThP 499 A Simplified, Integrated Solution for Untargeted Metabolomics; Baljit Ubhi¹; Ranjan Perera²; Matthew Skaley¹; Timothy J. Garrett³; ¹SCIEX, Redwood City, CA; ²Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL; ³University of Florida, Gainesville, FL

ThP 500 Metabolomic Analysis of Human Neural Stem Cells
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Neubert¹; ¹New York University Langone Medical Center,
New York, NY; ²Weill Cornell Medicine, New York, NY

ThP 501 Metabolomics Approach to Evaluate Silver Nanoparticle Toxicity; Samanthi I Wickramasekara¹; Suresh Narayanasamy¹; Steven Woolford¹; Eric Sussman¹; ¹US FDA, Silver Spring, MD

ThP 502 Single-cell Profiling of Dorsal-Ventral Metabolomic Differences in the Vertebrate (Frog) Embryo; David Plotnick'; Rosemary Masu Onjiko¹; Peter Nemes¹; ¹George Washington University, Washington, DC

ThP 503 Metabolomic Profiling in Human Mammary Epithelial Cells (HMEC) Exposed to 1,25(OH)2D; Renny S. Lan¹²; Ping-Ching Hsu¹.²; Theodore M. Brasky²; Joseph P. McElroy²; Adana A. Llanos².³; Ken Riedl²; Steven J. Schwartz²; Peter G. Shields²; ¹University of Arkansas for Medical Sciences, Little Rock, AR; ²The Ohio State University, Columbus, OH; ³Rutgers University, New Brunswick, NJ

ThP 504 Comparative Metabolomics of Scab Resistant and Susceptible Pecans; Zhentian Lei¹; David Huhman²; Daniel Wherritt³; Barbara Sumner¹; Santosh Kumar¹; Lloyd W. Sumner¹; ¹University of Missouri, Columbia, MO; ²The Samuel Roberts Noble Foundation, Ardmore, OK; ³University of Texas at San Antonio, San Antonio, TX

ThP 505 Derivatized Globally Optimized Targeted Mass Spectrometry (dGOT-MS) for Metabolomics Analysis of Carboxylic Acids; Renke Zhang¹.²; Xinyu Zhang¹; Haiwei Gu¹; Ping Zhang¹.³; G. A. Nagana Gowda¹; Liladhar Paudel¹; Dan Du¹.⁴; Daniel Raftery¹; ¹Northwest Metabolomics Research Center, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, WA; ²China Agricultural University, Haidian, China; ³Southwest University, Beibeiqu, China; ⁴West China-Washington Mitochondria and Metabolism Center, West China Hospital, Sichuan University, Chengdu, China

ThP 506 Comparison of High Resolution Quadrupole-Timeof-Flight and Orbitrap Mass Spectrometers for the Analysis of Small Molecules; Marzieh Ramezani¹; Edgar A. Arriaga¹; ¹University of Minnesota, Minneapolis, Minnesota

ThP 507 Benefits of SWATH® Acquisition, a DIA Technique over Traditional Data Dependent Analysis for High Resolution Untargeted Metabolomics Applications; Hector Gallart-Ayala¹; Zuzana Demianova²; Cyrus Papan³; Joerg Dojahn²; Baljit K. Ubhi⁴; ¹Sciex, Alcobendas, Spain; ²SCIEX, Darmstadt, Germany; ³SCIEX, Darmstadt, Germany; ⁴SCIEX, Redwood City, CA

ThP 508 Metabolic Profiling of Synthetic Cannabinoid 5F-ADB in Clinical Samples Using Non-Targeted SWATH Acquisition; Michael Dunn¹; Margaret Knight¹; Clair Roper¹; Peter Blain¹; ¹Medical Toxicology Centre, Newcastle University, Newcastle upon Tyne, UK

ThP 509 High Throughput Metabolomics of Greenhouse Grown Maize Plants Reveals Response to Drought Treatments and Predicts Field Grain Yield; Jan Hazebroek¹; April Agee Carroll²; Roland Welle³; Gerie van der Heijden¹; Teresa Harp¹; Chris Vlahakis¹; ¹DuPont Pioneer, Johmston, IA; ²Purdue, West Lafayette, IN; ³DuPont Pioneer, Eschbach, Germany

ThP 510 Metabolomic Profiling of Sweat Collected from Primary Lymphedema Patients Using Non-Occlusive Sample Collection and CIL LC-MS; Kevin Hooton¹; Ian Soles²; Liang Li¹; ¹University of Alberta, Edmonton, AB, Canada; ²Salutaris Centre, Edmonton, AB, Canada

ThP 511 Achieving Rapid Multi-Omics Analysis in Under 48
Hours; Alexander Aksenov¹; Robby Quinn¹; Jose NavasMolina¹; Rob Knight¹; Pieter C. Dorrestein¹; ¹University of
California San Diego, San Diego, CA

ThP 512 The Development of a LC-FAIMS-MS Metabolomics Workflow: A New Tool for Untargeted Metabolite Profiling to Diagnose Disease; Lauren Brown¹; Kayleigh Arthur¹; Alasdair Edge¹; Aditya Malkar¹; Paul Nasca¹; ¹Owlstone Medical Ltd., Cambridge, UK

ThP 513 Untargeted Metabolic Profiling of the Media of Plasmodium falciparumisolates Grown to Different Levels of Parasitemia; Patricia Gonzales Hurtado¹; Benjamin Orsburn²; Michal Fried¹; ¹Laboratory of Malaria Immunology and Vaccinology, NIAID, Rockville, Maryland; ¹Thermo Fisher Scientific, West Palm Beach, FL

ThP 514 Global Metabolomics Profile through the Blood-Brain Barrier of the Neurovascular Unit (NVU); Simona Gabriela Codreanu^{1, 2}; Stacy D. Sherrod^{1, 2}; Jacquelyn A. Brown¹; Diana M. Neely³; BethAnn McLaughlin³; Aaron B. Bowman³; John P. Wikswo¹; John A. McLean¹; ¹Vanderbilt University, Nashville, TN; ²Center for Innovative Technology, Vanderbilt University, Nashville, TN; ³Vanderbilt University Medical Center, Nashville, TN

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ThP 516 Formation of Protonated a and b Ions from Lanthanide-Peptide Complexes; Yating Wang¹; Justin Kai-Chi Lau¹; Cheuk-Kuen Lai^{1, 2}; Brian Lam¹; K.W. Michael Siu^{1, 2}; Alan C. Hopkinson¹; ¹York University, Toronto, ON, Canada; ²University of Windsor, Windsor, ON, Canada

ThP 517 Fragmentation Mechanism of Proline Containing
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Lafayette, IN

ThP 518 Fragmentation of Deprotonated Glycine and Alanine, their Di-, Tri-Peptides and Corresponding Amides Investigated by Collision-Induced Dissociation and Molecular Orbital Calculations; Can Cui¹; Ashley S. McNeill²; David A. Dixon²; Carolyn J. Cassady²; ¹The University of Alabama, Tuscaloosa, AL; ²The University of Alabama. Tuscaloosa, AL

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 Vietnam; ²The Scripps Research Institute, Jupiter, FL
- ThP 520 Rapid and Accurate Global PTM Discovery (G-PTM-D)
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 Michael R. Shortreed¹; Brian L. Frey¹; Robert J. Millikin¹;
 Anthony J. Cesnik¹; Lloyd M. Smith¹.²; ¹University of
 Wisconsin-Madison, Madison, WI; ²Genome Center of
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 Zhixin Tian¹; kaijie xiao¹; ¹School of Chemical Science and Engineering, Tongji University, Shanghai, China
- ThP 522 Nontargeted Characterization of D-Amino Acid-Containing Neuropeptides; Itamar Livnat"; Hua-Chia Tai²; Elena V. Romanova²; James W. Checco²; Jonathan V. Sweedler²; IUniversity of Illinois at Urbana-Champaign, Urbana, IL; 2University of Illinois at Urbana Champaign, Urbana, IL
- ThP 523 Characterization of L/D-Peptide Isomerase Activity in Aplysia californica; Hua-Chia Tai¹; Peter M. Yau²; Jonathan V. Sweedler²; ¹University of Illinois at Urbana-Champaign, Urbana, IL; ²University of Illinois at Urbana-Champaign, Urbana, IL
- ThP 524 Defining Mechanisms of Licorice Chemoprevention:
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 Lee¹; Lingyi Huang¹; Richard B. van Breemen¹; ¹University
 of Illinois at Chicago College of Pharmacy, Chicago, IL
- ThP 525 Characterization of tau Post-Translational Modifications in a Novel Cellular Model of tau Aggregation; Nathan

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- ThP 526 The Highly Ubiquitinated Protein Cargo of Exosomes Shed by Myeloid-Derived Suppressor Cells; Sitara Chauhan¹; Katherine Adams¹; Virginia Clements²; Yan Wang¹; Nathan J Edwards³; Suzanne Ostrand-Rosenberg²; Catherine Fenselau¹; ¹University of Maryland, College Park, MD; ²University of Maryland Baltimore County, Baltimore, MD; ³Georgetown University Medical Center, Washington, DC, DC
- ThP 527 Large Scale Discovery of Post-Translational Modifications Conserved across Microbial Species;
 Seungjin Na¹; Nuno Bandeira¹; ¹University of California, San Diego, La Jolla, CA
- ThP 528 Subcritical Water Processing of Proteins: Amino acid side-chain modifications; Thomas Powell¹; Helen J. Cooper¹; Steve Bowra²; ¹University of Birmingham, Birmingham, UK; ²Phytatec (UK) Ltd, Plas Gogerddan, UK
- ThP 529 Retention Time Prediction for Glycopeptides in Reversed phase Chromatography; Evelyn Ang¹; Vic Spicer¹; Helene Perreault¹; Oleg Krokhin¹; ¹University of Manitoba, Winnipeg, MB
- ThP 530 Retention Time Prediction for Peptides Containing Deamidated Asn Residues in Reversed-Phase

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- ThP 532 Simple, Rapid Determination of Isobaric Amino Acids by Chemical Derivatization; Stephen Ayrton¹; Ryan M Bain²; Christopher J Pulliam²; Tawnya Flick³; R. Graham Cooks²; ¹, West Lafayette, IN; ²Purdue, West Lafayette, IN; ³Amgen, Thousand Oaks, CA
- ThP 533 Antibody-based Target Identification of Covalent Kinase Inhibitors and Potential Targets of Phenyl Vinyl Sulfone by Mass Spectrometry; Chi-Chi Chou¹; Cheng-Han Yu²; Geen-Dong Chang²; Kay-Hooi Khoo².³; ¹Academia Sinica, Taipei; ²National Taiwan University, Taipei, Taiwan; ³Academia Sinica, Taipei, Taiwan
- ThP 534 Precipitation of HPG-ALD Polymer Using Organic Solvents Improves Peptide Identification in TAILS Terminomics; Nestor Solis¹; Jennifer Mark¹; Anilkumar Parambath¹; Jayachandran Kizhakkedathu¹; Christopher M Overall¹; ¹University of British Columbia, Vancouver, BC, Canada
- ThP 535 Discovery and Identification of O-Glycosylated Signaling Peptides from Mouse and Human Pancreatic Islets Enabled by EThcD Mass Spectrometry; Qing Yu¹; Alejandra Canales²; Matthew Glover²; Rahul Das²; Xudong Shi²; Yang Liu²; Mark P Keller²; Alan D. Attie²; Lingjun Li²; ¹University of Wisconsin-Madison, Madison, WI; ²University of Wisconsin-Madison, MI
- ThP 536 Systematic Comparison of Reduction and Alkylation Reagents reveals Side Chain Loss of Methionine due to Iodine Containing Alkylation Reagents; Torsten Müller¹;

 <u>Dominic Winter</u>¹; ¹IBMB Bonn
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- ThP 537 Developing an Analytical Framework for Sulfoproteomics: Sulfopeptide Enrichment and Positive Mode Mass Spectrometric Analysis; Hye Kyong Kweon¹; Brian L. Tang¹; Phillip J. McClory¹; Phillip C. Andrews¹; Kristina Hakansson¹; **University of Michigan, Ann Arbor, MI
- ThP 538 Data-Independent Infrared Multi-Photon Dissociation for the Targeted Discovery of Cysteine Sulfonic Acid;
 Nicholas B. Borotto¹; Phillip J. McClory²; Brent R. Martin²;
 Kristina Hakansson²; 'University of Michigan, Ann Arbor, MI;
 ²University of Michigan, Ann Arbor, Michigan
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 Barry Boyes^{1, 2}; Majors Badgett²; Ron Orlando²; ¹Advanced Materials Technology Inc., Wilmington, DE; ²Complex Carbohydrate Research Center, University of Georgia, Athens. GA
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 ¹Univ. Southern Denmark, Odense
- ThP 541 Mass Spectrometry Analysis of Sulfonation Cysteines in Peroxiredoxin 1; Changgong Wu; Center for Advanced Proteomics Research and the Department of Microbiology, Biochemistry and Molecular Genetics, Rutgers University, Newark. NJ
- ThP 542 **Optimization of SimSpectraST Search Conditions for Phosphoproteomics**; Tomoya Tsubosaka¹; <u>Ayano Takai</u>¹;
 Satoko Akahori¹; Seiya Kawahara¹; Veronika Suni²; Susumu
 Y. Imanishi¹; ¹Meijo University, Nagoya, Aichi; ²University of
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- ThP 544 Multifaceted Quantitation and Imaging of Changes in Crustacean Neuropeptidome Resulting from Food Intake; Kellen DeLaney¹; Lingjun Li¹.²; ¹University of Wisconsin Madison Department of Chemistry, Madison, WI; ²University of Wisconsin-Madison School of Pharmacy, Madison, WI
- ThP 545 Induced Expression of Bioactive Peptides in Solanum Iycopersicum under Salt Stress Conditions; Tessa

 E. Bartges¹; Christine L. Kirkpatrick¹; Nazia Kanwal²;
 Amer Jamil²; Leslie M. Hicks¹; ¹Department of Chemistry,
 University of North Carolina at Chapel Hil, Chapel Hill,
 NC; ²Department of Biochemistry and Molecular Biology,
 University of Agriculture Faisalabad, Faisalabad, Pakistan
- ThP 546 Functional Discovery of Neuropeptides in Blue Crab, Callinectes sapidus, in Response to Ocean Acidification; Yang Liu¹; Amanda Buchberger¹; Kellen DeLaney¹; Lingjun Li¹.²; ¹University of Wisconsin Madison Department of Chemistry, Madison, WI; ²University of Wisconsin-Madison School of Pharmacy, Madison, WI
- ThP 547 Profiling Peptidomic Changes in Major Brain Regions in Response to Cocaine Intoxication and Withdrawal; Fengfei Ma¹; Pingli Wei²; Jingxin Wang³; Vaishali Bakshi³; Brian Baldo³; Lingjun Li¹.²; ¹University of Wisconsin-Madison School of Pharmacy, Madison, WI; ²University of Wisconsin Madison Department of Chemistry, Madison, WI; ³University of Wisconsin-Madison, Madison, WI
- ThP 548 Differential Quantification of Ageing and Dehydration Effects on Peptide Secretion in the Pituitary by Automated MALDI-TOF MS; Elena Romanova¹; Michael P. Greenwood²; Mingkwan Greenwood²; David Murphy²; Jonathan V Sweedler³; ¹University of Illinois at Urbana-Champaign, Urbana, IL; ²University of Bristol, Bristol, UK; ³University of Illinois at Urbana Champaign, Urbana, IL
- ThP 549 Multifaceted Mass Spectrometric Analyses of Feedingrelated Metabolomic and Peptidomic Changes in the Rock Crab, Cancer irroratus; Qinjingwen Cao¹; Qing Yu²; Bingming Chen²; Chuanzi OuYang¹; Fengfei Ma²; Lingjun Li¹.²; ¹Department of chemistry, University of Wisconsin Madison, Madison, WI; ²School of pharmacy, University of Wisconsin Madison, Madison, WI
- ThP 550 Peptidogenomic Capture of Microprotein Virulence Factors in Community-Associated Staphylococcus aureus; Jacob Wozniak¹; John Lapek¹; Julieta Aguilar¹; Dominic McGrosso¹; David Gonzalez¹; Michael Dores²; Ross Corriden¹; Anvesh Marchela¹; JoAnn Trejo¹; Eri Nakatani-Webster³; Abhinav Nath³; Brian Werth³; ¹UCSD, La Jolla, CA; ²Hofstra Northwell School of Medicine, Hempstead, NY; ³University of Washington, Seattle, WA
- ThP 551 Top-down and Bottom-up Proteomics for the Identification of Crustacean Neuropeptides and Precursor-Related Peptides Predicted by Transcriptomics; Cindy Rivera¹; Julia M. Michels¹; Caroline Q. Corban¹; Patsy S. Dickinson¹; Andrew E. Christie²; Elizabeth A. Stemmler¹; ¹Bowdoin College, Brunswick, ME; ¹University of Hawaii at Manoa, Honolulu, Hawaii

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Elizabeth Peuchen¹; Liangliang Sun²; Olivia F Cox¹; Alex Hebert³; Joshua Coon³; Mathew F Champion¹; Paul W Huber¹; Norman J Dovichi¹; ¹University of Notre Dame,

- Notre Dame, IN; ²Michigan State University, Lansing, MI; ³University of Wisconsin-Madison, Madison, WI
- ThP 553 Time-Resolved Quantitative Analysis of Cellular Signaling and Epigenetic Mechanisms During Epithelial-Mesenchymal Transition; Congcong Lu¹; Simone Sidoli¹; Zuofei Yuan¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA
- ThP 554 Accumulated Ion Monitoring (AIM) Enables Enrichment-Free Quantitation of Rare and Phosphorylated Peptides from Micrograms and Thousands of Human Cells; Paolo Cifani¹; Alex Kentsis¹.²; ¹Molecular Pharmacology Program, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center, New York, NY; ²Department of Pediatrics, Weill Medical College of Cornell University and Memorial Sloan Kettering Cancer Center, New York, NY
- ThP 555 Dephosphorylation of AMA1 Cytosolic Tail during Toxoplasma gondii Invasion; Shruthi Krishnamurthy¹;

 Bin Deng¹; Roxana del Rio¹; Kerry R. Buchholz²; Moritz
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 Gary E. Ward¹; ¹University of Vermont, Burlington, VT;

 2Stanford School of Medicine, Stanford, CA; ³Johns Hopkins
 University School of Medicine, Baltimore, MD
- ThP 556 A Phosphoproteomic Approach to Investigate

 Mechanical Sensing in Xenopus laevis Embryos; Yutaka

 Hashimoto^{1, 2}; Noriyuki Kinoshita²; Todd M. Greco¹; Pierre

 Jean Beltran¹; Joel Federspiel¹; Naoto Ueno²; Ileana M.

 Cristea¹; **Princeton University, Princeton, NJ; **2National Institute for Basic Biology, Okazaki, Japan
- ThP 557 Identification of Potential Mitotic CK2 Substrates and Interactors by Quantitative Phosphoproteomics; Scott Rusin¹; Arminja N Kettenbach^{1,2}; ¹Dartmouth College, Hanover, NH: ²Norris Cotton Cancer Center, Lebanon, NH
- ThP 558 Nano LC-MS Based Phosphoproteomic Approach for Evaluating Signaling Properties of Insulin Receptor Agonists; Zhongping Liao¹; Jason X. Tang²; ¹Eli Lilly and Company, Indianapolis, IN; ²Eli Lilly and Company, Indianapolis. IN
- ThP 559 Quantitative Chemical Phosphoproteomics Identifies PCTAIRE-1 (Cdk16) as a Novel Wee1 Substrate; Andrew Grassetti¹; Rufus Hards²; Scott A Gerber²; ¹, Lebanon, NH; ²Dartmouth College, Hanover, NH
- ThP 560 Kinase Activity Profiling by Motif-Targeting
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 Wakabayashi¹; Naoyuki Sugiyama¹; Yasushi Ishihama¹;

 'Graduate School of Pharmaceutical Sciences,Kyoto
 University, Kyoto City, Japan
- ThP 561 Benchmarking LFQ, SILAC and MS2/MS3-based TMT Quantification Strategies for Phosphoproteomics;

 Alexander Hogrebe¹; Louise von Stechow¹; Dorte B.

 Bekker-Jensen¹; Brian T. Weinert¹; Christian D. Kelstrup¹;

 Jesper V. Olsen¹; ¹The Novo Nordisk Foundation Center for Protein Research, Proteomics Program, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark
- ThP 562 Multiplexing Meets Automation: TMT-Labeling in PRM Assays Increases Sample Throughput and Allows for Precise Relative Quantification; Malvina Papanastasiou¹; Alvaro Sebastian Vaca Jacome¹; Adam Officer¹; Katherine DeRuff¹; Steven A. Carr¹; Jacob D. Jaffe¹; ¹Broad Institute of MIT and Harvard, Cambridge, Massachusetts
- ThP 563 Identification of physiological kinase substrates from cell extracts by differential phosphorylation using reverse in-gel kinase assay and nano-LC tandem MS;

 Weiliang Huang¹; Xiang Li²; Keqi Tang³; Maureen A. Kane¹; Charles J. Bieberich²; ¹University of Maryland, School of Pharmacy, Department of Pharmaceutical Sciences, Baltimore, MD; ²University of Maryland Baltimore County, Department of Biological Sciences, Baltimore, MD; ³Pacific Northwest National Laboratory, Biological Sciences Division, Richland, WA



- ThP 564 Establishing the Basal Global Phosphorylation
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 School, Boston, MA
- ThP 565 Quantitative Phosphoproteomic Analysis of Circadian Clock-Associated Kinases in Arabidopsis thaliana;

 Shin-Cheng Tzeng¹; Margret Wilson¹; Matthew Meyer¹;

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 Bradley Evans¹; ¹Donald Danforth Plant Science Center, St.

 Louis, MO; ²Thermo Fisher Scientific, San Jose, California;

 ³Thermo Fisher Scientific, Rockford, IL
- ThP 566 Quantitative Phosphoproteomics Unveils Novel phosphorylation Events in Transformed Human Bronchial Epithelial Cell Induced by Arsenic; Yue Qi¹; Lingzhi Li¹; Michael Caruso¹; Xiangmin Zhang¹; Fei Chen¹; Zhengping Yi¹; ¹Wayne State University, Detroit, Michigan
- ThP 567 Going Deep: A Comprehensive Analysis of Tissue-Specific Protein Phosphorylation and Expression; Katie J Clowers¹; Mark P Jedrychowski¹; Edward L Huttlin¹; John Szpyt¹; Joao A Paulo¹; Steven P Gygi¹; ¹Harvard Medical School, Boston, MA
- ThP 568 The Phosphoproteome as a Phenotype: Towards a high throughput Platform for Phosphoproteomics;

 Matthew Foley^{1,2}; Michael J. Ford²; Richard C. Jones²; Ravi Amunugama²; David L. Allen²; **Inviversity of Michigan, Ann Arbor, Michigan; **2MS Bioworks, Ann Arbor, MI
- ThP 569 High-Resolution Phosphoproteomic Identification of Zika Virus-Initiated Events in Host Cells; Ronik Khachatoorian¹; Whitaker Cohn²; Austin Quach²; James Vu¹; Natalie Liu¹; Nu Lu¹; Travis Moller²; Piotr Ruchala²; Vaithilingaraja Arumugaswami³; Samuel French¹; Julian Whitelegge²; ¹Department of Pathology and Laboratory Medicine, David Geffen School of Medicine at University of California, Los Angeles, CA; ²Pasarow Mass Spectrometry Laboratory and Neuropsychiatric Institute—Semel Institute for Neuroscience & Human Behavior, David Geffen School of Medicine at UCLA, Los Angeles, California; ³Department of Surgery, The Board of Governors Regenerative Medicine Institute at Cedars-Sinai Medical Center, Los Angeles, CA

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- ThP 571 Site-Specific Characterization of PEGylated Insulin Isomers by Using Combined Liquid Chromatography and Ion Mobility Mass Spectrometry; Selim Gerislioglu¹; Scott Adams¹; Chrys Wesdemiotis¹; ¹The University of Akron, Akron, OH
- ThP 572 Applications of Native Mass Spectrometry (MS) for Biotherapeutics Characterization and Associated Challenges; Olga Friese¹; Thomas W. Powers¹; Jacqyelynn Smith¹; Paul Brown¹; Andrew Dawdy¹; Jason C. Rouse²;

 1Pfizer, Inc., St. Louis, MO; 2Pfizer, Inc., Andover, MA
- ThP 573 Discovery, Characterization, and Remediation of an Fcextension in Proteins Expressed in CHO Cells; Stone D.-H. Shi¹; Christopher S. Spahr¹; Mark E. Daris¹; Kevin C. Graham¹; Brian D. Soriano¹; Jennitte L. Stevens¹; ¹Amgen, Thousand Oaks, CA
- ThP 574 Orthogonal Mass Spectrometry-Based Footprinting Strategies Characterize the Epitope and a Structural Rearrangement of Interleukin-6 Receptor Subunit Alpha upon Adnectin Binding; Ke Sherry Li¹; Guodong Chen²; Jingjie Mo²; Richard Y-C Huang²; Ekaterina Deyanova²; Brett Beno²; Steve O'neil²; Adrienne A. Tymiak²; Michael

- L. Gross³; ¹Washington University, St. Louis, MO; ²Bristol-Myers Squibb, Princeton, NJ; ³Washington University, St Louis, MO
- ThP 575 Mapping of Complex Disulfide Patterns with Closely-Spaced Cysteines by In-Source Reduction and Data-Dependent Mass Spectrometry; Christian Cramer^{1, 2}; Christian D. Kelstrup²; Jesper V. Olsen²; Kim F. Haselmann¹; Peter Kresten Nielsen¹; **INOVO Nordisk A/S, Maaloev, DK; **2CPR Center for Protein Research, Copenhagen, Denmark
- ThP 576 Development of a Fast Proteinase K Digestion
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 Fanyu Meng¹; Ross Yang¹; Weijuan Tang¹; Li-Kang Zhang¹;
 Bing Mao¹; ¹Merck & Co., Inc, Rahway, NJ
- ThP 577 Automated Determination of Induced Monoclonal Antibody Disulfide Bond Shuffling Using Multiple Enzyme Digestions; Christopher A Bolcato¹; Katy Ryan¹; Heather Anderson¹; Matthew J Powell¹; K. Ilker Sen²; St. John Skilton²; Eric Carlson³; Matthew D Maust¹; ¹Protea Biosciences, Morgantown, WV; ²Protein Metrics, San Carlos, CA: ³Protein Metrics Inc., San Carlos, CA
- ThP 578 Characterization of a Novel Modification of a CHO
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 Sulfation; Jia Zhao; Merck, Kenilworth, NJ
- ThP 579 Optimizing Biotherapeutics Size-based Characterization by Native Mass Spectrometry; Leah (Hanliu) Wang¹;
 Thomas W. Powers¹; Ying Zhang²; Cliff Entrican²;
 Jacquelynn Smith¹; Andrew W. Dawdy¹; Yin Luo²; Jason C. Rouse²; OLGA FRIESE¹; ¹Biotherapeutics Pharm. Sci.,
 Pfizer Inc., St. Louis, MO; ²Biotherapeutics Pharm. Sci.,
 Pfizer Inc., Andover, MA
- ThP 580 Subtle Structural Changes to Antibody Therapeutics
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 John E. Hale²; Eric M. Graban²; Robert C. Vaughan³;
 Richard W. Vachet¹; ¹Department of Chemistry, University of Massachusetts Amherst, Amherst, MA; ²QuarryBio,
 Bloomington, IN; ³Department of Molecular and Cellular
 Biochemistry, Indiana University, Bloomington, IN
- ThP 581 Study of Stressed Monoclonal Antibody (mAb)
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- ThP 582 Tyrosine to Phenylalanine Sequence Variants Observed During Cell Line Development for Manufacture of a Monoclonal Antibody; Thomas Slaney¹; Mina Chaudhry¹; Hangtian Song¹; Wei Wu¹; Li Tao¹; Tapan Das¹; ¹Bristol-Myers Squibb, Hopewell, NJ New Jersey
- ThP 583 Dialysis-Coupled Hydrogen/Deuterium Exchange
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 Kasper Dyrberg Rand¹; ¹Department of Pharmacy, University
 of Copenhagen, Copenhagen, Denmark; ²Department of
 Protein Pharmaceutical Development, Biogen, Cambridge,
 MA; ³Codiak BioSciences, Cambidge, MA
- ThP 584 Data Independent Top-Down Characterization of Proteins for Biotherapeutic Applications; Lindsay Morrison¹; Brad Williams¹; ¹Waters Corporation, Beverly, MA
- ThP 585 Detection and Characterization of N- and O-Glycosylation: Streamlined Methods for Intact Mass Analysis and Bottom-Up Proteomics; Paula Magnelli¹; Colleen McClung¹; Cristian Ruse¹; Ellen Guthrie¹; Stephen Shi¹; ¹New England BioLabs, Ipswich, MA
- ThP 586 Impact of Tryptophan Oxidation in Complementarity-Determining Regions on Structure-Function Characterized by Hydrogen Exchange Mass Spectrometry and Surface Plasmon Resonance; Tyler



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¹Amgen Inc., Thousand Oaks, CA

- ThP 588 Toward Chemical Footprinting at Residue Resolution:
 FPOP Data Analysis of IL23 Antibody Binding; Jing
 Li¹; Ke Li¹; Michael L. Gross¹; Ekaterina Deyanova²;
 Richard Huang²; Yun Wang²; Robert Langish²; Adrienne A.
 Tymiak²; Guodong Chen²; Kadir Ilker Sen³; Eric Carlson³;
 Christopher Becker³; ¹Washington University, St Louis, MO;

 ²Bristol-Myers Squibb, Princeton, NJ; ³Protein Metrics Inc.,
 San Carlos, CA
- ThP 589 Capillary Electrophoresis Mass Spectrometry (IP-CE-MS) Analysis of Protein Therapeutics for Identification of in vivo Catabolites; Mei Han¹; Josh T. Pearson¹; Yunan Wang¹; Dan A. Rock¹; Brooke M. Rock¹; ¹Amgen, South San Francisco, CA
- ThP 590 Sample Preparation Method for Accurate Analysis of Non-Enzymatic PTMs in Biotherapeutic Proteins with Peptide Mapping; Sergei Saveliev1; Chris Hosfield1; Michael Rosenblatt1; Marjeta Urh1; **IPromega Corporation, Madison WI
- ThP 591 Protein Disulfide Bond Characterization with DMS and ECD; J.C. Yves Leblanc¹; Brendon Seale¹.²; Lyle Burton¹; Takashi Baba¹; ¹SCIEX, Concord, ON, Canada, ON, Canada; ²University of Toronto, Toronto, ON, Canada
- ThP 592 Improvement of Glycosylation Profile to Increase Similarity of Adalimumab Biosimilar to the Innovator with High-Resolution Mass Spectrometry; Ahmet Emin Atik¹; Zeynep Yildirim Keles¹; Yigit Erdemgil¹; Deniz Baycin Hizal¹; Ozge Can²; R. Serdar Alpan¹; ¹Turgut Ilaclari Biotechnology Group, İstanbul, Turkey; ²Department of Medical Engineering, Acibadem University, İstanbul, Turkey
- ThP 593 Characterizing Monoclonal Antibody (mAb) Epitopes and Paratopes Using Structural Mass Spectrometry;
 Janna Kiselar^{1, 2}; John Schenkel³; Mark Chance^{2, 4}; ¹Case Western Reserve University, Cleveland, OH; ²Department of Nutrition, Case Western Reserve University, Cleveland, OH; ³NeoProtoemics, Inc., Cleveland, OH; ⁴Case Western Reserve University, Cleveland, OH
- ThP 594 Systematic Analysis of the Truncations and Modifications of Bovine Pulmonary Surfactant Proteins B and C in Natural Alternative Medicine; Lian Shu¹; Jifeng Wang¹; Zhengsheng Xie¹; Lili Niu¹; Xiang Ding¹; Xiaojing Guo¹; Tanxi Cai¹; Fuquan Yang²; ¹Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; ¹Institute of Biophysics, CAS, Beijing, Beijing
- ThP 595 An Improved Workflow for Sequence Confirmation and PTM Identification of Monoclonal Antibodies Using Middle-Down ETD and CID Fragmentation; Weibin Chen¹; Henry Shion¹; Nilini Ranbaduge¹; Francesco Lanucara²; Emmy Hoyes²; Jeff Brown²; Jonathan P Williams²; James Langridge²; ¹Waters Corp, Milford, MA; ²Waters Corp., Wilmslow, UK
- ThP 596 A Multi-level Quantitative Estimation of mAb Clipping;

 Harsha Gunawardena¹; Eric Beil¹; Andy Mahan¹; Jeff
 Brelsford¹; Hirsh Nanda¹; ¹Janssen R&D of Johnson &
 Johnson, Greater Philadelphia, PA
- ThP 597 Comprehensive Characterization of the NIST mAb
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 Alley²; Henry Shion²; Ying Qing Yu²; ¹Waters Corporation,
 Milford, Massachusetts; ²Waters Corp, Milford, MA
- ThP 598 Native Ion Exchange Chromatography Orbitrap Mass Spectrometry Allows Surface Charge Discrimination and Online Detection of Intact Proteins for Deep Characterization; Aaron O. Bailey¹; Guanghui Han²; Wendy Sandoval²; Jonathan L. Josephs¹; ¹Thermo Fisher

- Scientific, San Jose, CA; ²Genentech, Inc, South San Francisco, CA
- ThP 599 A General Optimized Protocol for Sequence and Glycoforms Characterization of Monoclonal Antibodies; Modupeola A Sowole¹; Lin He²; Baozhen Shan²; Gilles A. Lajoie³; ¹University of Western Ontario, London, ON, Canada; ²Bioinformatics Solutions Inc, Waterloo, ON, Canada; ³University of Western Ontario, London, ON, Canada
- ThP 600 Development of LC-MS Platform Methods for IgG Analysis Using Q-Exactive Plus; Alisa Marie

 VanGrunsven¹; Emilie Aude Viglino¹; ¹CMC Biologics,
 Bothell, Washington
- ThP 601 High Efficiency Wide Pore Superficially Porous
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 Schuster¹; Brian M. Wagner¹; Benjamin P. Libert¹; William L.
 Miles¹; Barry E. Boyes¹.²; ¹Advanced Materials Technology,
 Inc., Wilmington, DE; ²Complex Carbohydrate Research
 Center, University of Georgia, Athens, GA
- ThP 602 Automated Intact Mass Analysis for the
 Characterization of Antibodies; Maurizio Bronzetti¹; Joe
 Shambaugh¹; David Bush¹; Stefano Gotta²; Cassandra
 Wigmore²; Arnd Brandenburg²; ¹Genedata Inc, Lexington,
 MA; ²Genedata AG, Basel, Switzerland
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 <u>Caroline S. Chu</u>¹; Pat D. Perkins²; Andy Gieschen³; *1Agilent Technologies, Inc., Santa Clara, CA; *2Agilent Technologies Inc., Santa Clara, CA; *3Agilent Technologies Inc., La Jolla, CA
- ThP 604 Simple and Quick MS Analysis of Chemically Synthesized Glycopeptides: Hydrogen/Deuterium Exchange (HDX)/MS for Verifying Racemization; <u>Izumi Sakamoto</u>¹; Kenji Hirose²; ¹AcroScale Inc., Sendai, Japan; ²Nihon Waters K.K., Osaka, Japan
- ThP 605 Pulsed HDX-MS Probes Protein Aggregate Intermediates Preliminary Study of GCSF Aggregation; Jun Zhang¹; Michael J. Treuheit¹; ¹Amgen, Inc, Thousand Oaks, CA

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- ThP 607 Studying Protein-Protein Complexes by Gas-Phase hydrogen/Deuterium Exchange Mass Spectrometry (Gas-Phase HDX-MS); Ulrik Hvid Mistarz¹; Shane A Chandler²; Justin L P Benesch²; Kasper D Rand¹; ¹Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ²Department of Chemistry, University of Oxford, Oxford, UK
- ThP 608 Gas Phase Activation Energies of Protein-Protein Interactions Determined by Electrospray Mass Spectrometry; Yelena Yefremova¹; Teresa F.I. Melder¹; Bright D. Danquah¹; Kwabena F.M. Opuni¹; Cornelia Koy¹; Knut Koelbel²; Frank Sobott²; Harald Illges³; Michael O. Glocker ¹; ¹Proteome Center Rostock, Rostock, Germany; ²University of Antwerp, Antwerp, Belgium; ³University of Applied Sciences Bonn-Rhein-Sieg, Bonn, Germany
- ThP 609 Engineering Nanodiscs for Membrane Protein Native
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 Arizona, Tucson, AZ
- ThP 610 Binding Affinity and Kinetics of Transient Protein-Protein Interactions by SEC/MS Measurements; Honglin Yao¹; Muneeruddin Khaja¹; Andrei N. Lipatnikov²; Cedric E. Bobst¹; Igor A. Kaltashov¹; ¹University of Massachusetts-

- Amherst, Amherst, MA; ²Chalmers University of Technology, Gothenburg, Sweden
- ThP 611 Quantifying Non-Covalent Complexes of Insulin with Ca(II), Mg(II), Na(I) and K(I) Electrolyte Ions by Using ESI-MS Method; Mustafa Gulfen¹; Abdil Ozdemir²; Jung-Lee Lin³; Chung-Hsuan Chen³; ¹, Adapazarı, Sakarya; ²Sakarya University, Adapazari, Sakarya; ³Academia Sinica, Taipei, Taiwan
- ThP 612 Optimization of Proteomic Profiling Approaches for the Cellular Thermal Shift Assay (CETSA) Using Glucosylceramidase-Isofagomine (GBA-IFG) as a Model System; Clifford Phaneuf¹; PAUL Mason¹; Alexander R. Ivanov²; David Bush³; Alexei Belenky¹; ¹Genzyme, Waltham, ma; ²Northeastern University, Boston, MA; ³Genedata, Lexington, MA
- ThP 613 Development of Surface Induced Dissociation on a High Mass Range Orbitrap Platform with Applications Toward the Study of Protein Complexes; Zachary L. VanAernum¹; Joshua D. Gilbert¹; Mikhail E. Belov²; Alexander A. Makarov²; Stevan R. Horning²; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH; ²Thermo Fisher Scientific, 28199, Germany
- ThP 614 A Rapid Mixing Device to Detect Early Intermediates in Hepatitis B Virus Assembly by Charge Detection Mass Spectrometry; Nicholas Lyktey¹; Corinne Lutomski¹; Zhongchao Zhao¹; Adam Zlotnick¹; Martin Jarrold¹; ¹Indiana University, Bloomington, IN
- ThP 615 Impact of Charge State on Dissociation of Multimeric Protein Complexes; Sarah Sipe¹; Jennifer S Brodbelt¹;

 1 University of Texas at Austin, Austin, TX
- ThP 616 Enhanced Detection of Non-Covalently Bound Enzyme
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 William E. Barry¹; ¹Agilent Technologies, Santa Clara, CA
- ThP 617 Charge State and Stoichiometry Determination for Extremely Congested Mass Spectra of Single- and Mixed-Lipid Membrane Models Using Fourier Analysis; James S. Prell^{1, 2}; Sean P. Cleary¹; ¹Department of Chemistry and Biochemistry, University of Oregon, Eugene, OR; ²Materials Science Institute, University of Oregon, Eugene, OR
- ThP 618 Untargeted Characterization of Protein Complex Stoichiometry and Cofactor Binding with Native Proteomics; Owen Skinner¹; Nicole A Haverland¹; Luca Fornelli¹; Rafael D Melani¹; Luis H. F. Do Vale¹.²; Henrique S Seckler¹; Peter F Doubleday¹; Luis F Schachner¹; Kristina Srzentiċ¹; Neil L Kelleher¹; Philip D Compton¹; ¹Northwestern University, Evanston, IL; ²University of Brasilia, Brasilia, Brazil
- ThP 619 Functional Analysis of Soluble and Membrane-Associated Protein Complexes by Multi-Dimensional Protein Correlation Profiling; Zach McBride¹; Donglai Chen²; Jun Xie²; Daniel Szymanski²; ¹Purdue University, West Lafayette, IN; ²Purdue University, West lafayette, Indiana
- ThP 620 LC-MS Compatible Sample Preparation Using On-bead Digestion to Characterize Protein-Protein Interactions in Early Mouse Embryonic Cortical Development; Philip Loziuk¹; Caroline Johnson²; Troy Ghashghaei²; ¹North Carolina State University, Raleigh, NC; ²North Carolina State University, Raleigh, NC
- ThP 621 A Modified flow-FPOP Platform for Oxidative Footprinting of Size-Fractionated Complexes; Manolo D.

 Plasencia¹; Don L. Rempel²; Michael L. Gross²; ¹University of Michigan, Ann Arbor, MI; ²Washington University, St. Louis, MO
- ThP 622 Native LESA Mass Spectrometry: Direct Analysis of Proteins and their Complexes; Rian L. Griffiths¹; Victor A. Mikhailov²; Emma K. Sisley¹; Helen J. Cooper¹; ¹University

- of Birmingham, Birmingham, UK; ²University of Oxford, Oxford, UK
- ThP 623 Native Mass Spectrometry Measurements Directly from Crude Cell Lysates; Jinrui Gan¹; Gili Ben-Nissan¹; Galina Arkind¹; Mark Tarnavsky¹; Devin Trudeau¹; Lianet Noda Garcia¹; Dan S. Tawfik¹; Michal Sharon¹; ¹Weizmann Institute of Science, Rehovot, Rehovot
- ThP 624 Deconvolving Extremely Congested Mass Spectra of Nanodisc Membrane Models and Polymers Using Overtone Data from Fourier Transformed Spectra; Sean P. Cleary¹; James S. Prell^{1, 2}; Department of Chemistry and Biochemistry, University of Oregon, Eugene, OR; Materials Science Institute, University of Oregon, Eugene, OR
- ThP 625 Cryogenic Ion Mobility-Mass Spectrometry Directly
 Observes Dimer Dehydration of Insulin; Michael J.
 Hebert¹; David H Russell¹; ¹Texas A&M University, College
 Station. TX
- ThP 626 Evaluation for the Need of Adequate Sample Size for Affinity Purification-Mass Spectrometry; Pamela S.

 Cantrell¹; Mai Sun¹; Nathan A. Yates¹.²; Xuemei Zeng¹;

 ¹Biomedical Mass Spectrometry Center, University of Pittsburgh Health Sciences Core Research Facilities, Pittsburgh, PA; ²University of Pittsburgh School of Medicine, Pittsburgh, PA
- ThP 627 Combining Native Mass Spectrometry with Mechanistic Binding Models to Define Microscopic Thermodynamics of Homotropic Allostery in Oligomeric Proteins; Melody Holmquist¹; Bryant Jacob¹; Eilhu C. Ihms¹; Paul Gollnick²; Vicki H. Wysocki¹; Mark P. Foster¹; ¹The Ohio State University, Columbus, OH; ²University at Buffalo, Buffalo, NY
- ThP 628 Developing LC-MS Methods to Characterize the Interaction of Therapeutic Proteins with Heparin Oligosaccharides; Cedric E. Bobst¹; Igor A. Kaltashov²; ¹University of Massachusetts, Amherst, MA; ²University of Massachusetts Amherst, MA

PROTEINS: CONFORMATION ANALYSIS AND STRUCTURAL BIOLOGY 629 - 648

- ThP 629 Cytochrome c as a Peroxidase: Covalent Labeling and Oxidation Site Mapping Uncovers the Mechanism of Catalytic Activation by H2O2; Victor Yin¹; Gary S Shaw¹; Lars Konermann¹; ¹University of Western Ontario, London, ON, Canada
- ThP 630 Quantitative Crosslinking and Quantitative Surface Modification for the Structural Characterization of Disorder-To-Order Transitions; Karl A.T. Makepeace¹; Evgeniy V. Petrotchenko²; Christoph H. Borchers^{1, 2}; ¹Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada; ²University of Victoria Genome BC Proteomics Centre, Victoria, BC, Canada
- ThP 631 Structural Mapping of Atypical Chemokine Receptor 3 by Mass Spectrometry; Liwen Wang¹; Martin Gustavsson²; Tracy Handel²; Irina Kufareva²; Mark R. Chance¹; ¹Case Western Reserve Univ, Cleveland, OH; ²University of California San Diego, San Diego, CA
- ThP 632 The Aggregation Mechanism of a Naturally Occurring Highly Amyloidogenic β2-Microglobulin Variant Probed Using Structural Mass Spectrometry; Owen Cornwell'; Sheena E Radford'; Alison E Ashcroft'; 'University of Leeds, Leeds, Yorkshire
- ThP 633 Proteolytic MALDI Compatible Chips for Limited Proteolysis and H/D Exchange Analysis; Michael Rosulek^{1, 2}; Petra Darebna^{1, 2}; Lukas Slavata^{1, 2}; Michael Volny³; Petr Man^{1, 2}; Petr Pompach^{1, 3}; Petr Novak^{1, 2}; *

 IBIOCEV*, Institute of Microbiology of the CAS, v.v.i., Vestec, Czech Republic; **2Faculty of Science, Charles University, Prague, Czech Republic; **3AffiPro s.r.o., Mratin, Czech Republic

- ThP 634 The C-type Lectin-Like Receptor Nkrp1b: Important Structural Features in the Context of Protein Conformation and Interactions; Lucie Hernychova^{1,2}; Michal Rosulek^{2,3}; Ljubina Ivanova²; Valeria Grobarova¹; Ondrej Sebesta¹; Alan Kadek^{2,3}; Josef Chmelik⁴; Kristian Skala²; Zdenek Kukacka^{2,3}; Jan Cerny¹; Petr Novak^{2,3}; ¹Department of Cell Biology, Faculty of Science, Charles University, Prague, Czech Republic; ²BIOCEV, Institute of Microbiology of the CAS, v.v.i., Vestec, Czech Republic; ³Department of Biochemistry, Faculty of Science, Charles University, Prague, Czech Republic; ⁴Institute of Microbiology of the CAS, v.v.i., Prague, Czech Republic
- ThP 635 Utilizing 193 nm UVPD for Identification of Peptide
 Crosslinks to Characterize Protein Interactions; Michael
 Cammarata¹; Sarah Sipe¹; Jake Rosenberg¹; Jennifer S
 Brodbelt¹; ¹University of Texas at Austin, Austin, TX
- ThP 636 Structural Characterization of Protein by Using
 Enzymatic Reactor; Grifnée Elodie¹; Hanozin Emeline¹;
 Smargiasso Nicolas¹; Quinton Loïc¹; Mazzucchelli Gabriel¹;
 De Pauw Edwin¹; ¹Mass Spectrometry Laboratory, Liège,
 Belgium
- ThP 637 Complex Conformations: Ion Mobility Mass
 Spectrometry Provides Insight into a Conformationally
 Dynamic Protein Complex; Sophie R Harvey¹; Varun V
 Gadkari¹; Zucai Suo¹; Vicki H Wysocki¹; ¹The Ohio State
 University, Columbus, OH
- ThP 638 Exploring Two-State Cooperative Protein Folding Using Ion Mobility Spectrometry-Mass Spectrometry; Shannon A Raab¹; Tarick J El-Baba¹; Daniel W Woodall¹; Wen Liu²; Yang Liu²; Arthur Laganowsky²; David H Russell²; David E Clemmer¹; ¹Indiana University, Bloomington, IN; ²Texas A&M University, College Station, Texas
- ThP 639 Probing Ligand-Induced GPCR Conformational Changes by In-Cell Crosslinking and Mass Spectrometry; Bill Huang¹; Ji-Won Lee¹; Hee-Yong Kim¹; ¹NIAAA/NIH, Rockville, MD
- ThP 640 Structural Comparisons of Trimeric Phospholipase A2 from Australian Snake Venoms; Julian A. Harrison^{1,2}; Celine Kelson^{1,2}; Jenny L. Beck^{1,2}; ¹School of Chemistry, University of Wollongong, Wollongong, Australia; ²Illawarra Health and Medical Research Institute, University of Wollongong, Wollongong, Australia
- ThP 641 Investigating the Dynamics and Assembly of alpha-Synuclein Amyloid Oligomers by ESI-IMS-MS; Rebecca Mason¹; Caroline Dalton¹; David Smith¹; ¹Biomolecular Sciences Research Centre, Sheffield Hallam University, Sheffield, UK
- ThP 642 Quantitative Protein Topography Measurements by High Resolution Hydroxyl Radical Protein Footprintingfor Molecular Modeling; Boer Xie¹; Amika Sood¹; Robert J. Woods¹; Joshua S. Sharp²; ¹Complex Carbohydrate Research Center, University of Georgia, Athens, GA; ²University of Mississippi, University, MS
- ThP 643 Integrative MS-based Biophysical Methods Show the Bridging Two Domains is a Mechanism for catalysis of OCP by FRP; Yue Lu; Washington University, St. Louis, St Louis
- ThP 644 Delivering Transmembrane Peptide Complexes to the Gas Phase Using ESI and Nanodiscs; <u>Jun Li</u>¹; Michele R. Richards¹; Elena Kitova¹; John Klassen¹; ¹University of Alberta, Edmonton, AB, Canada
- ThP 645 Advancing Synchrotron X-Ray Protein Footprinting through Radiolysis Chemistry and Post-Exposure Treatments; Simin D. Maleknia¹; Sayan Gupta²; Corie Ralston²; ¹University of New South Wales, Sydney, NSW; ¹Lawrence Berkeley National Laboratory, Berkeley, CA
- ThP 646 Proteome Thermostability in the Bacillaceae Family;

 <u>Jeremy Volkening</u>¹; Pei Liu¹; Greg Sabat¹; Michael R.

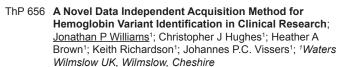
 Sussman¹; ¹University of Wisconsin-Madison, Madison, WI
- ThP 647 **Epitope and Paratope Mapping of Virus-Antibody Complexes**; <u>Ganesh S. Anand</u>¹; Xin Xiang Lim²; Arun

- Chandramohan²; ¹NUS Singapore, Singapore; ²National University of Singapore, Singapore, Singapore
- ThP 648 A Traveling Wave Ion Mobility Spectrometry and Molecular Modeling Study of Heparin/HS-Protein Interactions for Robo1; Yuejie Zhao¹; Jeong Yeh Yang²; Yongmei Xu³; David Thieker²; Chengli Zong²; Kelley Moremen²; Jian Liu³; Geert-Jan Boons²; Robert Woods²; I.Jonathan Amster¹; ¹University of Georgia, Chemistry Department, Athens, GA; ²Complex Carbohydrate Research Center, University of Georgia, Athens, GA; ³University of North Carolina, Chapel Hill, NC

PROTEOMICS: CLINICAL APPLICATIONS 649 - 680

- ThP 649 High Resolution Protein Profiling of Aortic Valves with and without Left-Ventricular Assist Device (LVAD) Implantation; Hemanth Akkiraju¹; Lewis M. Brown¹; Elizabeth H. Stephens¹; Jiho Han¹; Emma Trawick¹; Gordana Vunjak-Novakovic¹; Hiroo Takayama¹; ¹Columbia University, New York, NY
- ThP 650 Identification of Rare Hemoglobin Variant by Mass Spectrometry; Shawn Connolly¹; Thomas Everett¹; Steven Hanson¹; Kuanysh Kabytaev¹; ¹University of Missouri, Columbia, MO
- ThP 651 Phospho-Barcodes of Renal Cell Carcinoma Cell Lines Reveals Differential Mechanisms in Sunitinib Resistance; Shao-Kuan Chen^{1, 2}; Chi-Jung Huang^{2, 3}; Yen-Chieh Wang^{1, 2}; Tai-Yuan Lin¹; Wei-Chi Ku¹; ¹fu Jen Catholic University, New Taipei City, Taiwan; ²Cathay General Hospital, Taipei, Taiwan; ³National Defense Medical Center, Taipei, Taiwan
- ThP 652 Forensic Proteomics Identification of an Unknown Snake Venom in a Post-Mortem Blood Sample; Kyung-Mee Moon¹; Jason Rogalski¹; Leonard Foster¹; ¹University of British Columbia, Vancouver, BC, Canada
- ThP 653 Proteomes of Paired Human Plasma and Cerebrospinal Fluid and their Association with Protein Biomarkers of Alzheimer's Disease; Loïc Dayon¹; Jérôme Wojcik²; Antonio Núñez Galindo¹; John Corthésy¹; Ornella Cominetti¹; Domilè Tautvydaitè³; Aikaterini Oikonomidi³; Hugues Henry⁴; Martin Kussmann¹; India Severin¹; Eugenia Migliavacca¹; Gene L. Bowman¹; Julius Popp³.⁵; ¹Nestlé Institute of Health Sciences, Lausanne, Switzerland; ²Quartz Bio, Geneva, Switzerland; ³CHUV, Old Age Psychiatry, Department of Psychiatry, Lausanne, Switzerland; ⁴CHUV, Department of Laboratories, Lausanne, Switzerland; °CHUV, Leenaards Memory Center, Department of Clinical Neurosciences, Lausanne, Switzerland
- ThP 654 Immuno-MALDI for Quantifying Signaling Pathway
 Activity; Robert Popp¹; Huiyan Li¹; Andrew G. Chambers¹;
 Adriana Aguilar-Mahecha²; Oliver Pötz³; Mark Basik⁴;
 Christoph H. Borchers¹.⁴.⁵; ¹University of Victoria Genome
 BC Proteomics Centre, Victoria, BC, Canada; ²Segal
 Cancer Center, McGill University, Montreal, QC, Canada;
 ³Natural and Medical Sciences Institute (NMI), University of
 Tübingen, Reutlingen, Germany; ⁴Dept. of Oncology, Segal
 Cancer Centre, Jewish General Hospital, McGill University,
 Montreal, QC, Canada; ⁵Dept. of Biochemistry and
 Microbiology, University of Victoria, Victoria, BC, Canada
- ThP 655

 De Novo Sequencing Of Multiple Myeloma Immunoglobulin Heavy Chain CDR3 Clone From A Polyclonal Background; David H. Tse¹.²; Benson M. Linda¹.³; Benjamin J. Madden¹.³; Renee C. Tschumper¹.⁴; Diane F. Jelinek¹.⁴; Angela Dispenzieri¹.⁵; K. Ilker Sen⁶; Baozhen Shan²; H. Robert Bergen, Ill¹.².³; ¹Mayo Clinic, Rochester, MN; ²Dept. of Biochemistry and Molecular Biology, Rochester, MN; ³Mayo Proteomics Research Core, Rochester, MN; ⁴Dept. of Immunology, Rochester, MN; ⁵Dept. of Hematology, Rochester, MN; ⁶Protein Metrics Inc., San Carlos, CA; ¹Bioinformatics Solutions Inc, Waterloo, ON. Canada



ThP 657 LC-MS Platform for Identifying Protein Targets of Small-Molecule Binding Relevant to Disease and Metabolism;
Reid O'Brien Johnson¹; Brett Lomenick¹; Jing Huang¹;
Joseph A Loo¹; ¹UCLA, Los Angeles, CA

ThP 658 System – Wide Study of Energy Metabolism in Late – Stage Alzheimer's Disease; Christina D. King¹; Renã A.S. Robinson¹; ¹University of Pittsburgh, Pittsburgh, PA

ThP 659 PeptideMapper: an Integrated Resource for Targeted Proteomics; Pallab Bhowmick¹; Yassene Mohammed^{1,2}; Christoph H. Borchers^{1,3,4}; *1University of Victoria - Genome BC Proteomics Centre, Victoria, BC, Canada; *2Center for Proteomics and Metabolomics, Leiden University, Netherlands; *3Dept. of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada; *1Dept. of Oncology, Segal Cancer Centre, Jewish General Hospital, McGill University. Montreal. QC. Canada

ThP 660 Label-Free Proteomic Profiling of Clinical Colon
Biopsy from IBD Patients; Liang Jin¹; Chenqi Hu¹; Li
Li¹; Yingtao Bi¹; Stephanie Gaudette¹; Sheng Feng¹;
Susan Westmoreland¹; Annette Schwartz¹; Edit Tarcsa¹;
Michael Macoritto¹; Yu Tian¹; ¹AbbVie Bioresearch Center,
Worcester, MA

ThP 661 Clinically Relevant Profiling Of Proteoforms In Human Tears Using Chip-Based Capillary Electrophoresis Coupled To Mass Spectrometry; Daniel Lopez Ferrer¹; Romain Huguet²; Andreas Krupke³; Chien-Hsun Chen³; Aran Paulus³; Peter PM Raus⁴; Vlad Zabrouskov³; Andreas F. Huhmer³; Peter DEM Verhaert⁵; ¹ThermoFisher Scientific, San Jose, CA; ¹Thermo Fisher Scientific, San Jose, CA; ¹Thermo Fisher Scientific, San Jose, CAi; ¹Thermo Fisher Scientific, San Jose, California; ⁴Miró Center, Geel., Belgium; ⁵General Hospital St. Elisabeth,, Herentals, Belgium

ThP 662 Fast Characterization of the Proteoform Landscape in Human Tears Using Top Down Mass Spectrometry with Multiple MS/MS Strategies; Romain Huguet¹; Daniel Lopez Ferrer¹; David Horn¹; Peter PM Raus²; Vlad Zabrouskov³; Andreas F. Huhmer³; Peter DEM Verhaert⁴; ¹ThermoFisher, San Jose, CA; ²Miró Center, Geel, Belgium; ³Thermo Fisher Scientific, San Jose, CA; ⁴General Hospital St. Elisabeth.. Herentals. Belgium

ThP 663 System-Wide Temporal Characterization of the Phosphoproteome of Non-Small-Cell Lung Cancer Cells Treated with Erlotinib; Jun Adachi¹; Yuichi Abe¹; Takeshi Tomonaga¹; ¹National Institutes of Biomedical Innovation, Health and Nutrition, Ibaraki, Osaka

ThP 664 A Comprehensive, Quantitative Phosphoproteomic and Proteomic Analysis of Swine Hearts Revealed Novel Mechanistic Insights into Myocardial Stunning; Xue Wang¹,²; Xiaomeng Shen³; Rebeccah Young⁴; Brian Weil⁴; Jun Li¹; Shichen Shen¹; Jie Pu¹; John M. Canty⁴; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Roswell Park Cancer Institute, Buffalo, NY; ³Amgen, South San Francisco, CA; ⁴Clinical and Translational Research Center, Buffalo, N.Y.

ThP 665 Development of a Quantitative Assay for Antithrombin and its Proteoforms Using LC-QQQ-MS; L. Renee Ruhaak¹; Fred Romijn¹; Nico Smit¹; Yuri van der Burgt¹; Christa Cobbaert¹; ¹Leiden University Medical Center, Leiden, Netherlands

ThP 666 Two Large-Scale Studies Evaluating Multiplexed MRM-Based Protein Biomarker Screening in Dried Blood Spots - toward Clinical Utility; Sureyya Ozcan¹; Jason D Cooper¹; Jordan M Ramsey¹; Hakan Karlsson²; Sabine Bahn¹; ¹University of Cambridge, Cambridge, UK; ²Karolinska Institute, Stockholm, Uppland

ThP 667 Secretome of C6 Glioma Cells Upon Exposure to Novel MMP Inhibitors; Alisha Poole^{1, 2}; Vincent Chen^{1, 2}; Bryan Hill^{2, 3}; ¹Brandon University, Department of Chemistry, Brandon, MB; ²Brandon University, Master of Science (Environmental & Life Sciences), Brandon, MB; ³Brandon University, Brandon, MB

ThP 668 Proteome Biology of Noise Induced Hearing Loss;

Nopporn Jongkamonwiwat¹; Ann C.Y. Wong²; Kwang Pak²;

Allen F Ryan²; Jeffrey N Savas¹; ¹Department of Neurology,

Feinberg School of Medicine, Northwestern University,

Chicago, IL; ²Departments of Surgery & Neuroscience,

University of California San Diego and Veterans

Administration Medical Center, La Jolla, CA

ThP 669 Antigen Presentation Profiling Reveals Recognition of Lymphoma Immunoglobulin Neoantigens; Niclas Olsson¹; Michael S Khodadoust¹; Lisa Wagar¹; Ole A.W. Haabeth¹; Binbin Chen¹; Kavya Swaminathan¹; Keith Rawson¹; Chih L Liu¹; David Steiner¹; Peder J Lund¹; Samhita Rao¹; Lichao Zhang¹; Caleb D Marceau¹; Henning Stehr¹; Aaron M Newman¹; Debra K Czerwinski¹; Victoria Carlton²; Martin Moorhead²; Malek Faham²; Holbrook E Kohrt¹; Jan E Carette¹; Michael R Green³; Mark M Davis¹; Ron Levy¹; Ash A Alizadeh¹; Joshua E Elias¹; ¹Stanford University School of Medicine, Stanford, CA; ²Adaptive Biotechnologies, Seattle, WA; ³University of Nebraska Medical Center, Omaha, NE

ThP 670 Quantitative Profiling of Human Temporal Lobe and Hippocampal Proteomes at all Braak Stages of Alzheimer's Disease; Andrea B Ganz¹; David C Hondius¹; Roel van der Schors¹; Jeroen JM Hoozemans¹; Ka Wan Li¹; August B Smit¹; ¹Vrije University Amsterdam, Amsterdam

ThP 671 Analysis of Urinary Proteins Utilizing an Automated Sample Preparation with a Reverse-Phase Tip-Based Format; David J Clark¹; Punit Shah¹; Hui Zhang¹; ¹The Johns Hopkins University, Baltimore, MD

ThP 672 Quantifying Cardiac Troponin I in Human Plasma Using Immuno-Enrichment and Targeted Mass Spectrometry; Nicole A. Schneck¹; Karen W. Phinney¹; Sang-Bok Lee²; Mark S. Lowenthal ³; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²University of Maryland, College Park, MD; ³National Institute of Standards and Technology, Gaithersburg, MD

ThP 673 A Comparison of the Quantitative LC-MS/MS Analysis of IgF-1 on a Triple Quadrupole and a Quadrupole Orbitrap Mass Spectrometers; Rory M Doyle¹; Tahmid Hassan¹;

1 Thermo Fisher Scientific, Somerset, NJ

ThP 674 Quantification of FGFR Protein Expression in Solid Tumors by Targeted Mass Spectrometry and Correlation with FGFR Gene Amplification Status;

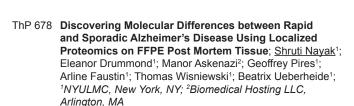
Andrew Chambers¹; Sarit Schwartz¹; Yuan Tian¹; Roberta Fasani²; Maria Diaz Delgado²; Cinta Hierro²; Jordi Rodon²; Shankar Sellappan¹; Fabiola Cecchi¹; Todd Hembrough¹; Paolo Nuciforo²; ¹Nantomics, Rockville, MD; ²Vall d'Hebron Institute of Oncology, Barcelona, Spain

ThP 675 Characterization of Covalent Inhibitors of Bruton
Tyrosine Kinase (BTK) to GS-4059 and Ibrutinib by
Mass Spectrometry; Gregg Czerwieniec¹; Loredana
Serafini¹; Juliane M. Jürgensmeier¹; Julie Lin¹; Bart Steiner¹;
Kathy Keegan¹; Andrew Billin¹; Scott D. Patterson¹;
Katherine M. Brendza¹; Roman Sakowicz¹; ¹Gilead
Sciences, Foster City, CA

ThP 676 Plasma Proteomics to Understand Health Disparities in Alzheimer's Disease; Mostafa Khan¹; Renã A.S. Robinson²; Kaitlyn E Stepler²; ¹University of Pittsburgh, Pittsburgh, Pennsylvania; ²University of Pittsburgh, Pittsburgh, PA

ThP 677 Mass Spectrometry of DNA-Protein Cross-Links
Following Iscemia-Reperfusion Injury; Natalia
Tretyakova¹; Arnold Groehler IV¹; Qinglu Li¹; Mary G. Garry¹;

¹University of Minnesota, Minneapolis, MN



ThP 679 Proteomic Quantitation of ERCC1 Predicts Response to Platinum-based Chemotherapy in Patients with Nonsmall Cell Lung Cancer; Chao Gong¹; Fabiola Cecchi¹; Eunkyung An¹; Jean-Charles Soria²; Todd Hembrough¹; ¹Nantomics, Rockville, MD; ²Gustave Roussy Cancer Campus. Villejuif. France

ThP 680 Comparison of Different Bottom-Up Proteomics Pipelines and LDA-Based Clustering for Optimal Segregation of Preeclampsia Subphenotypes; Sten Heinze¹; Hongwu Jing²; Wolfgang Rumpf³; Will Ray³; Catalin S. Buhimschi⁴; Irina A. Buhimschi¹; Vicki H. Wysocki²; ¹Center for Perinatal Research, The Research Institute at Nationwide Children's Hospital, Columbus, OH; ²The Ohio State University, Columbus, OH; ³The Battelle Center for Mathematical Medicine, The Research Institute at Nationwide Children's Hospital, Columbus, OH; ¹Department of Obstetrics and Gynecology, The Ohio State University, Columbus, OH

PROTEOMICS: TISSUE 681 - 698

- ThP 681 High-Throughput Analysis of Sample-Limited Islet
 Proteomes of Inbred and Outbred Mice; Elyse C
 Freiberger¹; Kelly Mitok¹; Alexander S Hebert¹; Nicholas W.
 Kwiecien¹; Mary E Rabaglia¹; Kathy L Schueler¹; Donald S
 Stapleton¹; Mark P Keller¹; Alan D. Attie¹; Joshua J. Coon¹;
 ¹University of Wisconsin-Madison, Madison, WI
- ThP 682 **SWATH Analysis of Hippocampal Synaptic Proteome in mGluR5 KO Mouse Brain**; <u>Miguel A. González</u>¹; Nikhil J Pandya¹; Frank Koopmans¹; Iryna Paliukhovich¹; August B Smit¹; Ka Wan Li¹; ¹Vrije University Amsterdam, Amsterdam
- ThP 683 Mass Spectrometry Analysis of Adeno-Associated Virus Glycan Receptor Expression in Aging Striatum for Gene Therapy in Parkinson's Disease; Rekha Raghunathan¹; Nicole K Polinski²; Chun Shao¹; Kshitij Khatri¹; John D. Hogan¹; Joshua A. Klein¹; Le Meng¹; Deborah Leon¹; Mark E. McComb¹; Caryl E Sortwell²; Joseph Zaia¹; ¹Boston University, Boston, MA; ²Michigan State University, Grand Rapids, MI
- ThP 684 Comparative Proteomics of Different Mussel Species to Reveal Proteins Linked to Byssogenesis by 2D-LC-MS/MS; Maxime Sansoucy¹; Réjean Tremblay²; Isabelle Marcotte¹; Lekha Sleno¹; ¹UQAM, Montreal, QC, Canada; ²UQAR-ISMER, Rimouski, QC, Canada
- ThP 685 Streamlining PCT-HD for Tissue Biopsy Samples:

 Better Digestion in a Shorter Time; Vera S. Gross¹; Keith
 Ashman²; Peter Hains³; Alexander Lazarev¹; ¹Pressure
 BioSciences, South Easton, MA; ²SCIEX, Framingham, MA;
 ³Children's Medical Research Institute, Westmead, Australia
- ThP 686 Determination of Protein Expression Alteration at Parkinson Disease Mouse Model; Jong Min Choi¹; Sung Yun Jung¹; Maxime W.C. Rousseaux¹,²; Anna Malovannaya¹; Huda Yahya Zoghbi¹,²; Jun Qin¹,³; ¹BCM, Houston, Texas; ²Howard Hughes Medical Institute at BCM, Houston, TX; ³BPRC, Beijing, China
- ThP 687 Characterization of MMP-28 in Autoimmune
 Neurodegenerative Diseases Using a Shotgun
 Proteomics Approach; Dorota Tokmina-Roszyk^{1,2}; Lillian
 Onwuha-Ekpete^{1,2}; Mohammed Refai³; Monika TokminaLukaszewska³; Brian Bothner³; Gregg B. Fields^{1,2}; *Iflorida
 Atlantic University, Jupiter, FL; *2The Scripps Research
 Institute, Jupiter, FL; *3Montana State University, Bozeman,
 MT

- ThP 688 Quantitative Proteomics Survey of Estrogenic Effects in the Rat Brain; Fatima Rahlouni^{1, 2}; Khadiza Zaman²; Vien Nguyen¹; Katalin Prokai¹; Vladimir Shulaev²; <u>Laszlo Prokai</u>¹; *'University of North Texas Health Science Center, Fort Worth, TX*; *'University of North Texas, Denton, Texas*
- ThP 689 Excessive Ethanol Drinking Downregulates Tubulin beta-5 Chain (TUBB5) in the Mouse Prefrontal Cortex; Scott P. Goulding¹; Max Kreifeldt¹; Michael J. MacCoss²; Christine C. Wu³; Candice Contet¹; ¹The Scripps Research Institute, Department of Neuroscience, La Jolla, CA; ²University of Washington, Department of Genome Sciences, Seattle, WA; ³University of Pittsburgh, Department of Cell Biology, Pittsburgh, PA
- ThP 690 Optimization of PAXgene Fixed Human Tissue Sample Preparation Method for Quantitative Proteomics; Ruiqi Jian¹; Lihua Jiang¹; Joanne Y Chan¹; Michael Snyder¹;

 'Stanford University, Stanford, CA
- ThP 691 Global and Site-Specific Glycosylation Analysis of Prostate Cancer Tissue-Derived Glycoproteins Using HCD Product-Dependent ETD Mass Spectrometry and Lectin Affinity Chromatography; Sarah M Totten¹; Cheylene Tanimoto²; Abel Bermudez²; Amy Hembree²; James D Brooks²; Sharon J Pitteri²; ¹Stanford University School of Medicine, Palo Alto, CA; ²Stanford University School of Medicine, Palo Alto, CA
- ThP 692 Unambiguously and Comprehensively Resolving
 Adenocarcinoma and Stromal Proteomes and their
 Interactive Signaling without Cell Sorting in a PatientDerived Xenograft Model; Shichen Shen¹; Jun Li¹; Ninfa L
 Straubinger¹; Xue Wang²; Michelle K Greene³; Christopher
 J Scott³; Wen Wee Ma⁴; Robert M Straubinger¹; Jun Qu¹;
 ¹University at Buffalo, Buffalo, NY; ²Roswell Park Cancer
 Institute, Buffalo, NY; ³Queen's University, Belfast, UK;
 ⁴Mayo Clinic, Rochester, MN
- ThP 693 Proteomic Analysis of Human Hematopoietic Stem cells During Differentiation; Magnus Hoffmann¹; Michael J Sweredoski¹; Sonja Hess¹; Annie Moradian ²; ¹California Institute of Technology, Pasadena, CA; ²California Institute of Technology, Pasadena, CA
- ThP 694 Integrated Proteome and Epigenetic Analysis Reveals
 Cross-Talk between Chromatin and Cancer Pathways
 in Malignant Peripheral Nerve Sheath Tumors; John
 Wojcik¹; Simone Sidoli¹; Kumarasen Cooper¹; Benjamin A.
 Garcia¹; ¹University of Pennsylvania, Philadelphia, PA
- ThP 695 Laser Ablation Capture of Formalin Fixed Paraffin Embedded Tissue for LC-MS/MS Proteomics Analysis;

 Fabrizio Donnarumma¹; Michael E. Pettit²; Touradj Solouki²;

 Joshua D. Edwards¹; Kermit K. Murray¹; ¹Louisiana State University, Baton Rouge, LA; ²Baylor University, Waco, TX
- ThP 696 Bacterial Cellulose Shifts Transcriptome and Proteome of Cultured Endothelial Cells Towards Native Differentiation; Gerhard Feil¹; Ralf Horres²; Julia Schulte¹; Andreas F. Mack³; Svenja Petzoldt⁴; Chen Meng⁵; Lukas Jost²; Jochen Boxleitner¹; Nicole Kiessling-Wolf¹; Ender Serbest¹; Dominic Helm¹; Bernhard Kuster⁵; Isabel Hartmann¹; Thomas Korff⁸; Hannes Hahne⁴; ¹Xellutec GmbH, Neuried, Germany; ²GenXPro GmbH, Frankfurt, Germany; ³Universität Tübingen, Tübingen, Germany; ⁴OmicScouts GmbH, Freising, Germany; ⁵Technical University Munich, Freising, Germany; ⁶University of Heidelberg, Heidelberg, Germany
- ThP 697 Proteomic Analysis Reveals Role of the Phosphohistidine Phosphatase PHPT1 in Ethanol-Induced Hepatic Steatosis; Daniel Martin¹; Crystina Kriss¹; Catherine MarElia¹; Brant Burkhardt¹; Stanley M Stevens¹; ¹University of South Florida, Tampa, FL
- ThP 698 LC/MS-Based Feces Proteomics Profiling for IBD Rodent Models; Yu Tian; AbbVie, Worcester, MA



- ThP 699 A Rapid and Sensitive LC-MS/MS Method for Determination of Nicotine in Human Plasma; Huafang Jiang¹; Changqing Lin¹; Xiaoyu Wang¹; Xinping Fang¹; Wenzhong Liang¹; ¹WuXi AppTec (Shanghai) Co. Ltd, Shanghai, China
- ThP 700 Differential Mobility Separation with SCIEX SelexION™-A Novel Technique for the Bioanalysis of Poor Fragmenting Molecules like Valproic Acid; Jeyan Albert¹; Anoop Kumar¹; Manoj Pillai¹; Peeyush Jain²; Naveen Dubey²; Sandeep Sharma²; ¹SCIEX, Gurgaon, India; ¹Jubilant Generics Ltd. Noida. India
- ThP 701 High-Throughput Quantitative Measurement of Amphetamine Enantiomers in Human Plasma via LC-MS/MS: Utilization of Chiral Derivatization with Dual-stage Liquid-liquid Extraction; Jennifer Keller¹; Moo-Young Kim²; Fumin Li²; Rand Jenkins³; ¹PPD, Middleton, WI; ²PPD, Middleton, WI; ³PPD Inc, Richmond, VA
- ThP 702 High Performance Liquid Chromatography/Mass Spectrometry (LC/MS) Method for the Detection of Low Molecular Weight Polydimethylsiloxanes in Pharmaceutical Formulations of Biotherapeutics; Paul W. Brown¹; Kate Torres¹; Thomas F Lerch¹; Olga V. Friese¹; Sumit Goswami¹; Anthony Young¹; Jason C. Rouse²; ¹Pfizer Inc., St Louis, MO; ²Pfizer, Inc., Andover, MA
- ThP 703 Analysis of Immunosuppressive Drugs from Whole Blood by LC-MS/MS; Susan Steinike¹; Justin Steimling¹; Frances Carroll¹; ¹Restek Corporation, Bellefonte, PA
- ThP 704 A Novel In-SituDerivatization Approach for Sensitivity Gains of Menthol in Human Plasma Using LC-MS/MS; Ming-Luan Chen¹; Milton Furtado¹; Anahita Keyhani¹; ¹Altasciences, Laval, QC, Canada
- ThP 705 Investigating Mass Spectrometric Communication
 Approaches for Odor Transmission over Data Networks;
 Daniel Mcguiness¹; Stamatios Giannoukos¹; FRED PAUL
 MARK JJUNJU¹; Jeremy Smith¹; Alan Marshall¹; Stephen
 Taylor¹; ¹Department of Electrical Engineering and
 Electronics University Of Liverpool, Liverpool, UK
- ThP 706 Determination of Synthetic Peptide SS31 in Brain Tissue Using HPLC- HR MS; Kazimierz Surowiec¹; Ramesh Kandimalla²; Murali Vijayan²; Subodh Kumar²; Hemachandra Reddy²; Yehia Mechref¹; ¹Texas Tech University, Lubbock, Texas; ²Garrison Institute on Aging, Texas Tech University Health Sciences Center, Lubbock, TX
- ThP 707 A Dual Functional Solid Phase Extraction Incorporating Liquid Chromatography-Tandem Mass Spectrometry for Simultaneous Extraction and Determination of Urinary Monoamine Neurotransmitters; Xiaoguang Li¹; Shu Li¹; Pheng Yang¹; Mieke Kellermann¹; Gottfried Kellermann²; Pharmasan Labs, Osceola, WI; NeuroScience Inc., Osceola, WI
- ThP 708 Calculation of the Sensitivity of Proton-Transfer-Reaction Mass Spectrometry (PTR-MS) for Volatile Organic Compounds; Kanako Sekimoto^{1, 2}; Shao-Meng Li³; Bin Yuan^{1, 4}; Abigail Koss^{1, 4}; Matthew Coggon^{1, 4}; Carsten Warneke^{1, 4}; Joost de Gouw^{1, 4}; ¹NOAA Earth System Research Laboratory, Boulder, CO; ²Yokohama City Univ., Yokohama, Japan; ³Environment and Climate Change Canada, Toronto, Ontario; ⁴Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder, Boulder, CO
- ThP 709 A Comparison of Analytical Methods Used to Measure Antinutritional Compounds Vicine and Convicine in Faba Bean (Vicia faba L.); Randy W. Purves¹; Hamid Khazaei¹; Haixia Zhang¹; Albert Vandenberg¹; ¹University of Saskatchewan, Saskatoon, SK, Canada
- ThP 710 Highly Sensitive Quantitative Analysis of Budesonide from Plasma Using LC/MS/MS; Shailendra Rane¹; Ashutosh Shelar¹; Shailesh Damale¹; Rashi Kochhar¹;

- Deepti Bhandarkar¹; Anant Lohar¹; Purushottam Sutar¹; Ajit Datar¹; Jitendra Kelkar¹; Pratap Rasam¹; Devika Tupe²; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ²Institute of Bioinformatics and Biotechnology, Pune, India
- ThP 711 Simultaneous Determination of Five Metabolites of Areca Nut and Tobacco Alkaloids in Hair Using Liquid Chromatography Tandem Mass Spectrometry; Hsiu Chuan Chen; , Taichung
- ThP 712 A Simple and Highly Sensitive UPLC-ESI-MS/MS
 Methodology for the Simultaneous Quantification of
 Nicotine, Cotinine, NNN, and NNK in Serum Samples;
 Lucie Loukotkova¹; Goncalo Gamboa da Costa¹; ¹NCTR, US
 FDA, Jefferson, AR
- ThP 713 Development of an Analytical Method for Melatonin in Mouse Pineal Glands by UPLC-MS/MS; Teruyo Uenoyama¹; Melanie A. Rehder Silinski¹; Brian F. Thomas¹;

 RTI International, Research Triangle Park*, NC
- ThP 714 Optimization of Folate Extraction from Pulse Crop Seeds and Quantification Using Liquid Chromatography Mass Spectrometry; Haixia Zhang¹; Ambuj B. Jha¹; Albert Vandenberg¹; Thomas D. Warkentin¹; Randy W. Purves¹; ¹University of Saskatchewan, Saskatoon, SK, Canada
- ThP 715 Quantitative LC-MS/MS Analysis of Dopamine in Single Ant Brain Samples; Karolina M. Krasinska¹; Daniel A. Friedman²; Deborah M. Gordon²; Allis Chien¹; ¹SUMS, Stanford University, Stanford, CA; ²Dept. of Biology, Stanford University, Stanford, CA
- ThP 716 Development and Implementation of LC/TOF MS
 Impurity Methods in a GMP Setting; Philip Anderson¹;
 Laura Hayter¹; Madelyn Hunsley¹; ¹Avista Pharma Solutions,
 Longmont, CO
- ThP 717 Multifaceted, High Resolution LC/MS/MS Determination of Tofacitinib in Plasma; Christopher C. Lai¹; Marcos Iglesias²; Poulami Majumder¹; Giorgio Raimondi²; Joel P. Schneider¹; James A. Kelley¹; ¹National Cancer Institute-Frederick, Frederick, MD; ²Johns Hopkins University School of Medicine, Baltimore, MD
- ThP 718 Development of LC-MS/MS Methods in Plasma and Urine for SPR741, a Cyclic Nonapeptide which Potentiates Antibiotic Activity Against Gram-negative Pathogens; Brad King¹; Abram Brubaker¹; Rob Lappin¹; Ronald Shoup²; Luke Utley³; ¹AIT Bioscience, Indianapolis, IN; ²AIT Bioscience, Indianapolis, IN; ³Spero Therapeutics, Cambridge, MA
- ThP 719 Development of Sensitive LC-MS/MS Methods in Naf/
 KOx Human Plasma for Cocaine and metabolites
 Benzoylecgonine and Ecgonine Methyl Ester; Brad
 King¹; Ashley Brant¹; Julie Straub²; Ronald Shoup¹; ¹A/T
 Bioscience, Indianapolis, IN; ²Embera NeuroTherapeutics,
 Inc, Sudbury, MA
- ThP 720 Rapid Derivatization for the Accurate LC-MS/MS
 Quantitation of Unencapsulated Doxorubicin in Plasma
 after Administration of a Liposomal Formulation; <u>Jean-Francois Larocque</u>¹; Evgueni Fedorov¹; ¹Biotrial, Laval, QC,
 Canada
- ThP 721 Overcoming Matrix-Based Interferences Using Multi-Extraction Techniques for LC-MS Analysis of AZD0156 and Its Metabolite in Human Plasma; Kevin Kowalski¹; Patricia Hansen¹; Brian Dayton²; Omobola Oladipupo¹; Eric Thomas¹; Yan Li³; Yingxue Chen³; ¹Covance, Indianapolis, IN; ²Covance, Madison, WI 53704; ³AstraZeneca R&D, Waltham, MA
- ThP 722 Therapeutic Drug Monitoring of 14 Antiepileptic Drugs Using Reverse-Phase Liquid Chromatography-Electrospray Ionization Tandem Mass Spectrometry; Don E. Davis, Jr. 1; Charles M. Nichols 1.2; Stacy D. Sherrod 1.2; R. L. Gant-Branum 1.2; Simona G. Codreanu 1.2; Jennifer Colby 3; John A. McLean 1; 1 Vanderbilt University, Nashville, TN; 2 Center for Innovative Technology, Vanderbilt University, Nashville, TN; 3 Vanderbilt University Medical Center, Nashville, TN

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Arnold, Rebecca Arnold, Rebecca Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang N Arrey, Tabiwang N Arrey, Tabiwang N Array, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Arthur, John Arthur, John Arthur, Kayleigh Arthur, Kayle	MP 499 MP 500 MP 500 MP 569 TP 657 TP 657 MP 632 TP 625 TP 136 MP 255 MP 256 MP 256 MP 256 MP 104 Th 968 MP 544 Th 968
Arnold, Rebecca Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang N. Arrey, Tabiwang N. Arrey, Tabiwang N. Arrey, Tabiwang N. Array, Tabiwang N. Array, Tabiwang N. Array, Tabiwang N. Array, Viatcheslav Artaev, Viatchesla	MP 499 MP 500 MP 500 MP 569 TP 657 TP 657 MP 632 TP 625 TP 389 Th 936 MP 256 MP 256 MP 256 MP 256 MP 104 Th 9 104 Th 9 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 MP 104 Th 9 562 Th 9 683 Th 9 683 Th 9 685 MP 564 MP 564 MP 562 Th 9 685 MP 564 MP 567 MP 569
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Arnold, Rebecca Arnold, Rebecca Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang Arrey, Tabiwang N Arrey, Tabiwang N Arrey, Tabiwang N Arraga, Edgar Arrua, R. Dario Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Artaev, Viatcheslav Arthur, John Arthur, John Arthur, Kayleigh Arthur, Arthur, Allein Arthur, Arthur, Allein Arthur, Arthur, Allein Arthu	MP 499 MP 500 MP 500 MP 509 TP 657 TP 657 TP 650 MP 632 TP 625 TP 389 ThP 506 MP 255 MP 256 MP 256 MP 256 MP 104 ThP 510 MP 104 ThP 510 MP 250 MP 544 ThP 561 MP 250 MP 544 ThP 685 MP 544 ThP 685 MP 544 ThP 685 MP 562 ThP 632 MP 254 MP 084 MP 084 ThP 632 MP 254 MP 084 ThP 685 ThP 199 MP 199 MP 199
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Athanason, Mark	WP 163
Atik, Ahmet	
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Atkins, Alan	
Atkinson, Kieran	
Attah, Isaac	ThP 404
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Attygalle, Athula	TP 680
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Atwell, Brian	MP 543
Atzori, Luigi	
Aubin, Simon	
Aubriet, Frédéric	WP 123
Aubriet, FrédéricThOH	
Auchtung, Jennifer	INP 025
Auchynnikava, Tania	TP 143
Auclair, JaredThOF	
A	TD 07.10
Aucoin, Marc	1P 0/3
Auger, Paul	WP 320
Auger, Serge	ThP 140
Auger, Serge	
Auger, Serge	WP 101
Auger, Serge	WP 105
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Auger, Serge	MP 711
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Augustijns, Patrick	TD 423
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Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Austin, Daphel Avgausti, Daphne Avila, Robin Avramova, Larisa WOG	MP 147 ThP 102 MP 714 MP 235 WP 350 am 09:50 MP 441 MP 219 WP 670 TP 507 pm 03:30
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Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Austin, Daniel Austin, Daniel Austin, Daniel Authier, Simon Auwärter, Volker Avgousti, Daphne Avila, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry ThOA Avtonomov, Dmitry TOA Awad, Amber	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50 am 08:50
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Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Austin, Daniel Austin, Daniel Austin, Daniel Authier, Simon Auwärter, Volker Avgousti, Daphne Avila, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry ThOA Avtonomov, Dmitry TOA Awad, Amber	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670 pm 03:30TP 331MP 340 pm 02:50 am 08:50TP 693WP 589
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Aurand, Craig	MP 147ThP 102MP 714MP 235MP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50TP 693WP 589MP 008
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Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avila, Robin Avramova, Larisa Avramova, Larisa Avramova, Larisa Avramova, Larisa Avramova, Dmitry Avtonomov, Dmitry Avtonomov, Dmitry Avtonomov, Dmitry Thoa Avtonomov, Dmitry Toa Awad, Amber Awasthi, Shivangi Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awaeka, Francesca MOB	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50 am 08:50TP 693WP 589MP 008WP 288MP 201
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Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avila, Robin Avgousti, Daphne Avila, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry Avtonomov, Dmitry Avtonomov, Dmitry TOA Avtonomov, Dmitry TOA Avad, Amber Awasthi, Shivangi Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Aweeka, Francesca MOB Axelrad, Donald Axton, Elizabeth	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50TP 693WP 589MP 008WP 589MP 219WP 301 pm 02:30MP 212
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Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avitier, Simon Auwarter, Volker Avgousti, Daphne Avila, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ToA Awad, Amber Awasthi, Shivangi Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Avazu, Kunio	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670WP 670TP 507 pm 03:30TP 331MP 240MP 250 am 08:50 am 08:50 am 08:50 am 08:50TP 693WP 589MP 008WP 288MP 212WP 398 pm 03:50 am 09:10ThP 397WP 074ThP 301ThP 301ThP 397WP 074ThP 397WP 074ThP 532 am 10:10TP 590 am 10:10TP 591
Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avita, Simon Auwarter, Volker Avgousti, Daphne Avila, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avtonomov, Dmitry ThoA Avazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Awazu, Kunio Avazu, Kunio Aveka, Francesca MOB Axelrad, Donald Axton, Elizabeth Ayati, Marzieh Ayoub, Daniel Ayoub, Daniel Ayrton, Stephen Ayzikov, Konstantin ToG Azam, Mohammad Azeem, Sara Azuma, Takeshi Azzam, Sausan	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50TP 589WP 589MP 288WP 288MP 288WP 389MP 212WP 398 pm 03:50 am 09:10ThP 397WP 710ThP 397WP 710ThP 397WP 710ThP 397WP 710ThP 397WP 710ThP 397WP 710ThP 596WP 710MP 474ThP 458
Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avia, Colker Avgousti, Daphne Avia, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry Avtonomov, Dmitry ThoA Avtonomov, Dmitry ToA Avazu, Kunio Awazu, Kunio Aveka, Francesca MOB Axelrad, Donald Axton, Elizabeth Ayati, Marzieh Ayoub, Daniel Ayoub, Daniel Ayoub, Daniel Ayoub, Stephen Ayzikov, Konstantin ToG Azam, Mohammad Azeem, Sara Azuma, Takeshi Azzam, Sausan Baba, Shahid	MP 147ThP 102MP 714MP 235MP 350 am 09:50MP 441MP 235MP 360 am 09:50MP 441MP 219WP 360TP 507 pm 03:30TP 331MP 340 pm 02:50 am 09:50TP 693WP 589MP 288MP 301 pm 02:30MP 212WP 398 pm 03:50 am 09:10ThP 397ThP 532 am 10:10TP 532 am 10:10TP 596WP 710MP 474ThP 532
Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avia, Colker Avgousti, Daphne Avia, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry Avtonomov, Dmitry ThoA Avtonomov, Dmitry ToA Avazu, Kunio Awazu, Kunio Aveka, Francesca MOB Axelrad, Donald Axton, Elizabeth Ayati, Marzieh Ayoub, Daniel Ayoub, Daniel Ayoub, Daniel Ayoub, Stephen Ayzikov, Konstantin ToG Azam, Mohammad Azeem, Sara Azuma, Takeshi Azzam, Sausan Baba, Shahid	MP 147ThP 102MP 714MP 235MP 350 am 09:50MP 441MP 235MP 360 am 09:50MP 441MP 219WP 360TP 507 pm 03:30TP 331MP 340 pm 02:50 am 09:50TP 693WP 589MP 288MP 301 pm 02:30MP 212WP 398 pm 03:50 am 09:10ThP 397ThP 532 am 10:10TP 532 am 10:10TP 596WP 710MP 474ThP 532
Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avid Avid Avid Avid Avid Avid Avid Avid	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50 am 08:50 am 08:50 am 08:50TP 693WP 288TP 301 pm 02:30MP 212WP 398 pm 03:50 am 09:10ThP 397WP 074ThP 532 am 10:10TP 596WP 710MP 474ThP 458TP 710MP 474
Aurand, Craig Aurand, Craig Aurand, Craig Aurore, Jaffuel Austin, Daniel Avia, Colker Avgousti, Daphne Avia, Robin Avramova, Larisa WOG Avritscher, Rony Avtonomov, Dmitry Avtonomov, Dmitry ThoA Avtonomov, Dmitry ToA Avazu, Kunio Awazu, Kunio Aveka, Francesca MOB Axelrad, Donald Axton, Elizabeth Ayati, Marzieh Ayoub, Daniel Ayoub, Daniel Ayoub, Daniel Ayoub, Stephen Ayzikov, Konstantin ToG Azam, Mohammad Azeem, Sara Azuma, Takeshi Azzam, Sausan Baba, Shahid	MP 147ThP 102MP 714MP 235WP 350 am 09:50MP 441MP 219WP 670TP 507 pm 03:30TP 331MP 340 pm 02:50 am 08:50 am 08:50 am 08:50 am 08:50 am 08:50 am 08:50TP 693WP 288WP 288WP 288WP 388WP 288WP 398 pm 03:50 am 09:10ThP 397WP 074ThP 532 am 09:10TP 592 am 10:10TP 596WP 710WP 710WP 740TP 596WP 7591

Baba, Takashi	ThP 449
Babii, Cornelia	WP 499
Babu, Ponnusamy	
Dabu, i Oiliusainy	
Baca, Andrew	WP 127
Bacala, Ray	WP 684
Dacaia, Nay	VVF 00 4
Bacala, Ray	WP 685
Bacala, Raymond	
Baccega, Tania	ThP 292
Bächle, Dirk	1 nOB am 08:50
Bachman, John	WP 588
Bachman, Martin	
Bachman, Martin	MD 363
Bachman, Martin	MP 421
Bachman, Martin	ThD 453
Bachmann, Brian	MP 388
Bachmann, Lorin	ThD 046
Bacica, Michael	MP 025
Backlund, Peter	
Backlund, Peter	ThP 108
Bäckström, Erica	INP 292
Badal, Sunil	MP 001
Badal, Sunil	
Badgett, Majors	ThP 530
Badiei, Hamid	
Badu-Tawiah, Abraham	
Badu-Tawiah, Abraham	WP 012
Badu-Tawiah, Abraham	
Badu-Tawiah, Abraham	WP 015
Badu-Tawiah, Abraham	IhP 2/5
Badu-Tawiah, Abraham	ThP 183
Badu-Tawiah, Abraham	TP 413
Badu-Tawiah, Abraham	
Baek, Judy	WP 474
Baek, Sun Young	
Bafna, Vineet	ThP 312
Bafna, Vineet	
Bafna, Vineet	WOA nm 03:50
Bagga, Aafreen	VVP 021
Bagga, Aafreen Kaur	
	MP 285
Baggerman, Geert	
Baggerman, Geert	MP 337
Baggerman, GeertBaghdady, Yehia	MP 337 MP 477
Baggerman, GeertBaghdady, Yehia	MP 337 MP 477
Baghdady, YehiaBaghdady, Yehia	MP 337 MP 477 WP 680
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585
Baggerman, Geert	MP 337MP 477WP 680MP 427TP 585ThP 666
Baggerman, Geert	MP 337MP 477WP 680MP 427TP 585ThP 666
Baggerman, Geert	
Baggerman, Geert	MP 337
Baggerman, Geert	MP 337
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 686 ThP 480 WP 655 TP 061 WP 242
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 686 ThP 480 WP 655 TP 061 WP 242
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnady, Yehia Baghnady, Yehia Bahn, Sabine Bahn, Sabine Bahn, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron.	MP 337 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 068
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnady, Yehia Baghnady, Yehia Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bahrke, Sven Bai, Dina Bai, Dina Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron.	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 577 MP 160 WOF am 08:50 TP 068 TP 068
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnady, Yehia Baghnady, Yehia Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bahrke, Sven Bai, Dina Bai, Dina Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron.	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 577 MP 160 WOF am 08:50 TP 068 TP 068
Baggerman, Geert	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 MP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 TP 087
Baggerman, Geert	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 MP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 TP 087
Baggerman, Geert	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 MP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 TP 087
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 068 TP 068 TP 078 TP 078 TP 078 TP 079
Baggerman, Geert	MP 337 MP 477 WP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 068 TP 068 TP 078 TP 078 TP 078 TP 079
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnady, Yehia Baghnady, Yehia Baghnady, Yehia Baghnady, Yehia Baghnady, Yehia Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aeron. Bailey, Derek Bailey, Derek	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 TP 087 ThP 241 ThP 598 TP 641 TP 380
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura.	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 087 ThP 241 ThP 598 TP 631 TP 631 TP 380 WP 449
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura.	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 087 ThP 241 ThP 598 TP 631 TP 631 TP 380 WP 449
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Bai, Yang. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle.	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 577 MP 160 WOF am 08:50 TP 068 TP 087 ThP 241 ThP 598 TP 631 TP 380 WP 449 ThP 397
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle Bain, Kinsey	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 397 MP 151
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle Bain, Kinsey	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 397 MP 151
Baggerman, Geert	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Dina. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aeron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle. Bain, Kinsey. Bain, Ryan Bain, Ryan Bain, Ryan	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 160 WOF am 08:50 TP 087 TP 087 TP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 MP 151 MP 151
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Dina. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aeron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle. Bain, Kinsey. Bain, Ryan Bain, Ryan Bain, Ryan	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 160 WOF am 08:50 TP 087 TP 087 TP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 MP 151 MP 151
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle Bain, Kinsey. Bain, Ryan Bain, Ryan Bain, Ryan Bain, Ryan Bain, Matthew.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 081 TP 987 ThP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 ThP 532 MP 654
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Bain, Ryan Bain, Matthew. Baird, Matthew.	MP 337 MP 477 MP 680 MP 427 TP 585 Th 666 Th P 666 MP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 061 Th 241 Th 598 TP 641 TP 387 MP 151 MP 151 MP 151 MP 1532 MP 654 MP 243
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Bain, Ryan Bain, Matthew. Baird, Matthew.	MP 337 MP 477 MP 680 MP 427 TP 585 Th 666 Th P 666 MP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 061 Th 241 Th 598 TP 641 TP 387 MP 151 MP 151 MP 151 MP 1532 MP 654 MP 243
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Nameera. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Bain, Ryan Bain, Matthew. Baird, Matthew. Baird, Matthew.	MP 337 MP 477 MP 680 MP 427 TP 585 Th 666 Th P 666 MP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 061 MP 241 Th 598 TP 641 TP 380 WP 449 Th 937 MP 151 MP 151 MP 532 MP 654 MP 243 WP 382
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Bain, Ryan Bain, Matthew. Baird, Matthew.	MP 337 MP 477 MP 680 MP 427 TP 585 Th 666 Th P 666 MP 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 061 MP 241 Th 598 TP 641 TP 380 WP 449 Th P 397 MP 151 MP 151 MP 532 MP 654 MP 243 WP 382
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Laura Bailey, Ronelle Bain, Kinsey Bain, Ryan Baird, Matthew	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 397 MP 151 MP 151 MP 151 MP 543 MP 654 MP 243 WP 382 ThP 415
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bairke, Sven Bai, Dina. Bai, Dina. Bai, Dina. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aeron. Bail	MP 337 MP 477 MP 477 MP 477 MP 1666 ThP 480 MP 427 MP 1666 ThP 480 MP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 380 WP 449 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 154 MP 242 MP 242 MP 242 MP 243 MP 243 MP 382 ThP 241 MP 242
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Laura Bailey, Ronelle Bain, Kinsey Bain, Ryan Baird, Matthew	MP 337 MP 477 MP 477 MP 477 MP 1666 ThP 480 MP 427 MP 1666 ThP 480 MP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 TP 380 WP 449 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 154 MP 242 MP 242 MP 242 MP 243 MP 243 MP 382 ThP 241 MP 242
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bairke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Corek Bailey, Corek Bailey, Baron. Bailey, Aaron. Bailey, Aar	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 081 TP 987 ThP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 ThP 532 MP 654 MP 243 WP 382 ThP 415 WP 416
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Kinsey Bain, Kyan Baird, Matthew. Baird, Jane. Bajaj, Amol.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 656 MP 242 TP 578 MP 160 WOF am 08:50 TP 061 TP 081 TP 481 TP 598 TP 641 TP 598 MP 151 ThP 397 MP 151 ThP 397 MP 151 ThP 532 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 667
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Kinsey Bain, Kyan Baird, Matthew. Baird, Jane. Bajaj, Amol.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 656 MP 242 TP 578 MP 160 WOF am 08:50 TP 061 TP 081 TP 481 TP 598 TP 641 TP 598 MP 151 ThP 397 MP 151 ThP 397 MP 151 ThP 532 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 667
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey. Bain, Ryan Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Jane. Bajaj, Amol. Bajaj, Amol.	MP 337 MP 477 MP 480 MP 427 TP 585 Th 666 Th P 666 Th P 655 TP 061 WP 242 TP 578 MP 160 WOF am 08:50 TP 068 TP 087 Th 241 Th 598 TP 641 TP 397 MP 151 MP 151 Th 532 MP 243 WP 382 Th 415 WP 416 MP 368 WP 667 WP 668
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Baird, Matthew Baird, Matthew Baird, Matthew Baird, Matthew Baird, Matthew Baird, Jane Bajaj, Amol Bajaj, Amol Bajaj, Amol Bajaj, Ayinash	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 MP 397 MP 151 MP 151 MP 151 MP 151 MP 532 MP 644 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 416 MP 368 WP 667 WP 668 ThP 114
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem Bahrke, Sven Bai, Dina Bai, Dina Bai, Dina Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Ronelle Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Baird, Matthew Baird, Matthew Baird, Matthew Baird, Matthew Baird, Matthew Baird, Jane Bajaj, Amol Bajaj, Amol Bajaj, Amol Bajaj, Ayinash	MP 337 MP 477 MP 680 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 ThP 241 ThP 598 TP 641 MP 397 MP 151 MP 151 MP 151 MP 151 MP 532 MP 644 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 416 MP 368 WP 667 WP 668 ThP 114
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baghnski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Dina. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aeron. Bailey, Aunelle. Bain, Ryan. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Aeron. Bajaj, Amol. Bajaj, Amol. Bajaj, Avinash Bajic, Steve.	MP 337 MP 477 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 087 Th 241 ThP 598 TP 641 TP 380 WP 449 ThP 377 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 154 MP 243 WP 368 WP 654 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 668 TP 068 TP 07
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bairke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Caron. Bailey, Aaron. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Zane. Bajaj, Amol. Bajaj, Awinash Bajaja, Steve. Bajic, Steve.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 081 TP 987 ThP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 MP 151 ThP 532 MP 654 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 667 WP 668 TP 415 TP 409 TP 412
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bairke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Caron. Bailey, Aaron. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Zane. Bajaj, Amol. Bajaj, Awinash Bajaja, Steve. Bajic, Steve.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 081 TP 987 ThP 241 ThP 598 TP 641 TP 380 WP 449 ThP 397 MP 151 MP 151 ThP 532 MP 654 MP 243 WP 382 ThP 415 WP 416 MP 368 WP 667 WP 668 TP 415 TP 409 TP 412
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Kinsey Bain, Kinsey Baird, Matthew. Baird, Steve. Bajic, Steve. Bajic, Steve. Bajic, Steve.	MP 337 MP 477 MP 477 MP 480 MP 427 TP 585 ThP 666 ThP 480 WP 655 MP 671 MP 577 MP 160 WOF am 08:50 TP 061 ThP 241 ThP 598 MP 415 MP 151 ThP 397 MP 151 ThP 532 MP 243 WP 382 ThP 415 MP 243 WP 382 ThP 415 MP 154 MP 243 MP 368 MP 664 MP 243 MP 368 MP 668 ThP 114 TP 409 TP 412 TP 409
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew. Bahn, Sabine Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina Bai, Dina Bai, Jina Bai, Yang. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Laura Bailey, Derek Bailey, Laura Bailey, Ronelle. Bain, Kinsey Bain, Ryan Bain, Ryan Bain, Ryan Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Matthew. Baird, Jane Bajaj, Amol. Bajaj, Amol. Bajaj, Avinash Bajic, Steve.	MP 337 MP 477 MP 480 MP 427 TP 585 Th 666 Th P 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 068 TP 087 Th 241 Th 598 TP 641 TP 397 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 Th 932 MP 654 MP 243 WP 449 Th 938 WP 449 Th 938 WP 419 Th 915 MP 151 Th 932 MP 654 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 244 MP 368 MP 416 MP 368 Th 914 TP 419 TP 419 TP 419 TP 419 TP 419 TP 423 MP 201
Baggerman, Geert. Baghdady, Yehia Baghdady, Yehia Baginski, Matthew Bahn, Sabine Bahn, Sabine Bahr, Ute. Bahrainwala, Tasneem. Bahrke, Sven Bai, Dina. Bai, Dina. Bai, Xue. Bai, Yang. Baig, Nameera. Bailey, Aaron. Bailey, Aaron. Bailey, Aaron. Bailey, Derek Bailey, Derek Bailey, Derek Bailey, Laura. Bailey, Ronelle. Bain, Kinsey Bain, Kinsey Bain, Kinsey Baird, Matthew. Baird, Steve. Bajic, Steve. Bajic, Steve. Bajic, Steve.	MP 337 MP 477 MP 480 MP 427 TP 585 Th 666 Th P 480 WP 655 TP 061 WP 242 TP 578 TP 671 MP 577 MP 160 WOF am 08:50 TP 068 TP 087 Th 241 Th 598 TP 641 TP 397 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 MP 151 Th 932 MP 654 MP 243 WP 449 Th 938 WP 449 Th 938 WP 419 Th 915 MP 151 Th 932 MP 654 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 243 MP 244 MP 368 MP 416 MP 368 Th 914 TP 419 TP 419 TP 419 TP 419 TP 419 TP 423 MP 201

Baker, Andrew	WP 625
Baker, Bonnie	MP 652
Baker, Christopher	TP 275
Baker, David	MP 195
Baker, David	TP 184
Baker, David	TD 10
Daker, David	TD 100
Baker, David	IP 194
Baker, David	TP 207
Baker, David	WP 203
Baker, Erin	MP 374
Baker, Erin	TP 057
Baker, Erin	TD 447
Daker, Elli	IF 112
Baker, Erin	IP 12 <i>i</i>
Baker, Erin	WP 321
Baker, Erin	WP 669
Baker, Erin	WP 346
Baker, Erin	WP 3/0
Beker Frin	ThD 400
Baker, Erin	THP 400
Baker, Erin	ThP 410
Baker, Erin	WOD pm 03:30
Baker, Erin	ThOG pm 03:50
Baker, Erin	TOD am 09:50
Baker Frin	TOD am 00.00
Baker, Erin	1 OA piii 03.30
Baker, Paul	WP 418
Baker, Paul	ThP 449
Baker, Paul	ThP 459
Baker, Paul	W/P 483
Baker, Peter R	VVI +00
Daker, Pelei R	
Baker, Teesha	ThP 265
Baker, Timothy	WP 172
Bakshi, Vaishali	ThP 547
Bala, Manju	TP 186
Belen Dropov	
Balan, Pranav	WOF alli 09.10
Balasubramaniam, Deepa	ThP 216
Balasubramanian, Bharathi	
Balbo, Silvia	WP 545
Balbo, Silvia	WP 561
Balbo, Silvia	TOD am 00:20
Daibo, Siivia	10D alli 06.30
Balcer, Jesse	MP 430
Balcer, Jesse	
Daileo 1, 00000	INP 398
Balcer, Jesse	TOB pm 02:50
Balcer, Jesse	TOB pm 02:50
Baldo, Brian	TOB pm 02:50
Baldo, Brian	TOB pm 02:50 ThP 547 MP 698
Baldon, Brian	TOB pm 02:50 ThP 547 MP 698 MP 30
Balcer, Jesse	TOB pm 02:50 ThP 547 MP 698 MP 307 TP 523
Balcer, Jesse	TOB pm 02:50ThP 547MP 698MP 30°TP 523
Balcer, Jesse	TOB pm 02:50MP 698MP 30'TP 523WP 28'MOG am 09:10
Balcer, Jesse	TOB pm 02:50MP 698MP 30'TP 523WP 28'MOG am 09:10
Balcer, Jesse	TOB pm 02:50 ThP 54: MP 698 TP 52: TP 52: WP 28- MOG am 09:11
Balcer, Jesse	TOB pm 02:50 ThP 547 MP 698 MP 30° TP 52° WP 28° MOG am 09:10 ThP 13°
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David	TOB pm 02:50ThP 54:MP 696MP 30:TP 52:WP 28:MOG am 09:11ThP 13:MP 38:WP 58:WP 58:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin	TOB pm 02:50ThP 54:MP 696MP 30:WP 28:MOG am 09:11
Balcer, Jesse	TOB pm 02:50ThP 54:
Balcer, Jesse	TOB pm 02:50ThP 54:
Balcer, Jesse	TOB pm 02:50ThP 54:
Balcer, Jesse	TOB pm 02:50ThP 543MP 698MP 300TP 523WP 28MOG am 09:10ThP 133MP 388WP 581TOC pm 02:30WP 433WP 433
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian. Balez, Rachelle Balez, Rachelle Balhorn, Rodney. Balinski, Andrzej. Baliu-Rodriguez, David. Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin	TOB pm 02:50ThP 54:MP 696MP 30:TP 52:WP 28:MOG am 09:11ThP 13:MP 38:WP 58:TOC pm 02:30WP 43:WP 43:WP 43:WP 30:WP 20:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia	TOB pm 02:50ThP 54:MP 698MP 30:WP 28:MOG am 09:11ThP 13:MP 38:WP 58:TOC pm 02:30WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:MP 30:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Ballog, Julia Balog, Julia	TOB pm 02:50ThP 54:MP 698MP 30:TP 52:WP 28:MOG am 09:11ThP 13:MP 38:WP 58:WP 43:WP 43:WP 43:WP 43:WP 29:WP 29:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia	TOB pm 02:50TNP 54:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia	TOB pm 02:50TNP 54:
Balcer, Jesse	TOB pm 02:50ThP 54:MP 698MP 30'TP 52:MOG am 09:10ThP 13:MP 38:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 29:MOE am 08:10WP 29:MOE am 08:10WP 01:TP 01:TP 01:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian. Balez, Rachelle Balez, Rachelle Balez, Rachelle Balinski, Andrzej Balinski, Andrzej Baliu-Rodriguez, David. Balko, Justin Ball, Carol Ballon, Douglas Balloff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia	TOB pm 02:50ThP 54:1MP 698MP 30'Th 52:2WP 28'MOG am 09:1(1ThP 13:3MP 38:4WP 43:3WP 43:3WP 43:3WP 43:3WP 43:3WP 43:3WP 43:3WP 43:4MP 30:4WP 29:4MOE am 08:50WOB pm 04:10TP 01:4TP 01:4TP 02:4TP 02:4TP 02:4TP 02:4TP 02:4TP 02:4TP 02:4TP 02:4TP 02:4TP 04:6
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia	TOB pm 02:50ThP 54:50MP 698MP 30:50MP 28:50MP 28:50MP 38:50MP 38:50MP 43:50MP 43:50MP 43:50MP 43:50MP 43:50MP 43:50MP 43:50MP 43:50MP 43:50MP 29:50MOE am 08:50MOB pm 04:10TP 01:50TP 02:50TP 02:50TP 42:50TOD pm 03:50
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Baltensperger, Urs Balturs, Podge	TOB pm 02:50ThP 54:MP 698MP 30:MP 28:MOG am 09:10MP 13:MP 38:WP 58:TOC pm 02:30WP 43:WP 43:WP 43:WP 29:MOB pm 04:10TP 01:TP 01:TP 02:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balluff, Benjamin Ballog, Julia Balog, Julia	TOB pm 02:50TNP 54:MP 698MP 30'TP 52:MOG am 09:10TNP 13:MP 38:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 40:WP 29:WOB pm 04:10TP 01'TP 01'TP 02:TP 07:TP 07:TP 07:TP 07:TP 07:TP 07:TP 07:TP 07:TP 07:TP 32:TP 32:TP 32:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia	TOB pm 02:50TNP 54:MP 698MP 30'TP 52:MP 28'MOG am 09:10Th 13:MP 38:WP 43:WP 43:WP 43:WP 30:WP 30:WP 29:TP 01'TP 01'TP 01'TP 02:TP 32:TP 32:TP 32:TP 32:TP 33:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia	TOB pm 02:50TNP 54:MP 698MP 30'TP 52:MP 28'MOG am 09:10Th 13:MP 38:WP 43:WP 43:WP 43:WP 30:WP 30:WP 29:TP 01'TP 01'TP 01'TP 02:TP 32:TP 32:TP 32:TP 32:TP 33:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian. Balez, Rachelle Balez, Rachelle Balez, Rachelle Balnorn, Rodney. Balinski, Andrzej. Balinski, Andrzej. Balinski, Parol Ballo, Douglas Ballo, Douglas Ballorn, Benjamin Ballog, Julia Balog, Julia	TOB pm 02:50ThP 54:MP 696MP 30:MP 28:MP 38:MP 38:MP 38:MP 38:MP 43:MP 43:MP 30:MP 43:MP 30:MP
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Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balhorn, Rodney Baliu-Rodriguez, David Ballon, Douglas Ballon, Douglas Balluff, Benjamin Balog, Julia	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MP 28:MOG am 09:11MP 38:MP 58:TOC pm 02:30WP 43:MP 43:MP 38:MP 30:MP 30:MP 29:MOE am 08:50WD 29:MOE am 08:50MP 30:MP 43:MP 43:MP 43:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Ballorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Baltensperger, Urs Baltura, Dodge Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Takeshi Bamba, Takeshi Bamba, Takeshi	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MP 28:MOG am 09:11MP 38:WP 58:WP 58:WP 43:WP 43:WP 43:WP 43:WP 43:MP 30:WP 29:MOE am 08:56WOB pm 04:10TP 01:TP 01:TP 02:TP 32:TP 32:TP 32:TP 32:TP 33:WP 34:MP 45:MP 45:MP 45:MP 45:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Ballorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Baltensperger, Urs Baltensperger, Urs Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Dodge Balvin, Manuel Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MOG am 09:11TNP 13:MP 38:WP 58:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 38:WP 38:WP 38:WP 38:WP 38:WP 38:WP 38:WP 39:WP 32:WP 32:TP 01:TP 01:TP 02:TP 32:TP 32:TP 32:TP 33:WP 34:MP 45:MP 45:MP 45:MP 45:MP 45:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Ballorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Baltensperger, Urs Baltura, Dodge Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Takeshi Bamba, Takeshi Bamba, Takeshi	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MOG am 09:11TNP 13:MP 38:WP 58:WP 43:WP 43:WP 43:WP 43:WP 43:WP 43:WP 38:WP 38:WP 38:WP 38:WP 38:WP 38:WP 38:WP 39:WP 32:WP 32:TP 01:TP 01:TP 02:TP 32:TP 32:TP 32:TP 33:WP 34:MP 45:MP 45:MP 45:MP 45:MP 47:MP 63:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian. Balez, Rachelle Balez, Rachelle Balez, Rachelle Bales, Rachelle Balinski, Andrzej Baliu-Rodriguez, David. Balko, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Ballog, Julia Balog, Julia Baltensperger, Urs Baluya, Dodge Baluya, Dodge Baluya, Dodge Baluya, Dodge Balvin, Manuel Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bambarger, Casimir	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MOG am 09:1(1)MP 38:MP 38:MP 38:MP 43:MP 43:MP 30:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 47:MP 63:MP 31:
Balcer, Jesse Baldo, Brian Baldone, Matthew Baldwin, H. Baldwin, Ian Balez, Rachelle Balez, Rachelle Balez, Rachelle Balhorn, Rodney Balinski, Andrzej Baliu-Rodriguez, David Ballo, Justin Ball, Carol Ballon, Douglas Balluff, Benjamin Balluff, Benjamin Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Balog, Julia Baltensperger, Urs Baltensperger, Urs Baltuya, Dodge Baluya, Takeshi Bamba, Takeshi Bamba, Takeshi Bamba, Takeshi Bambarguer, Casimir Bamberguer, Casimir	TOB pm 02:50TNP 54:MP 698MP 30:MP 28:MP 28:MOG am 09:11ThP 13:MP 38:WP 43:WP 43:MP 30:WP 43:MP 30:WP 43:MP 30:MP 30:MP 30:MP 30:MP 30:MP 30:MP 30:MP 30:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 43:MP 47:MP 31:MP 31:MP 31:MP 31:MP 31:
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Benson, Ron	
Bensussan, Alena	
Bensussan, Alena	WP 022
Benter, Thorsten	MP 245
Benter, Thorsten	ThD 100
Benter, Thorsten	1hP 189
Benter, Thorsten	ThP 190
Benter, Thorsten	ThP 191
Benter, Thorsten	
Benter, Thorsten	
Benter, Thorsten	TP 424
Benter, Thorsten	
Benter, Thorsten	TD 422
benter, morsten	1P 433
Benvenuti, Mark	
Benz, Ryan	MP 623
Benz, Ryan	
Berberich, Matthew	
Berchtold, Christian	MP 109
Berden, Giel	
Berden, Giel	
	IVIP 432
Berden, Giel	
	TP 544
Berden, Giel	TOH am 08:30
Berden, GielBerden, Giel	TP 544 TOH am 08:30 TOH am 08:50
Berden, Giel Berdyshev, Evgeny	TP 544 TOH am 08:30 TOH am 08:50 ThP 464
Berden, GielBerden, Giel	TP 544 TOH am 08:30 TOH am 08:50 ThP 464
Berden, Giel Berdyshev, Evgeny Bereman, Michael	TP 544TOH am 08:30TOH am 08:50ThP 464
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716ThP 313
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716ThP 313MP 717MP 349
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716ThP 313MP 717MP 349
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716ThP 313MP 717MP 349TP 153
Berden, Giel	
Berden, Giel	
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716
Berden, Giel	TP 544TOH am 08:30TOH am 08:50ThP 464MP 716THP 313MP 717MP 349TP 153MP 123ThP 655TP 265ThP 248
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 264MP 716ThP 313MP 717MP 349TP 153MP 123ThP 655TP 265TP 265ThP 248 ThOB pm 04:10
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 264MP 716ThP 313MP 717MP 349TP 153MP 123ThP 655TP 265ThP 248 ThOB pm 04:10MP 693
Berden, Giel	
Berden, Giel	
Berden, Giel	
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 264MP 716TOH 313MP 717MP 349TP 153MP 123ThP 655TP 265TP 265TP 268ThP 248 ThOB pm 04:10MP 693ThP 120WP 284ThP 277
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 464MP 716MP 717MP 349TP 153MP 123ThP 655TP 265TP 265TP 265ThP 248 ThOB pm 04:10MP 693ThP 123ThP 277TOG am 09:10
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 20TOH 21TOH 21
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH 20TOH 21TOH 21
Berden, Giel	
Berden, Giel	
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH am 08:50TOH 313MP 716TOH 313MP 717MP 349TP 153MP 123ThP 655TP 265ThP 248ThP 248ThP 324ThP 248ThP 324ThP 324ThP 324ThP 324ThP 324ThP 134ThP 135MP 693ThP 136MP 619MP 115MP 115MP 146TP 7032ThP 468TP 703
Berden, Giel	
Berden, Giel	
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 MP 284 ThP 277 TOG am 09:10 MP 619 MP 115 MP 148 TP 032 ThP 468 TP 703 MP 717 MP 530 MP 717 TP 167
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 MP 284 ThP 277 TOG am 09:10 MP 619 MP 115 MP 148 TP 032 ThP 468 TP 703 MP 717 MP 530 MP 717 TP 167
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716 .ThP 313 .MP 717 .MP 349 .TP 153 .MP 123 .ThP 655 .ThP 265 .ThP 248 .ThOB pm 04:10 .MP 693 .ThP 120 .WP 284 .ThP 277 .TOG am 09:10 .MP 619 .MP 115 .WP 148 .TP 032 .ThP 468 .TP 703 .WP 530 .MP 717 .TP 167 .TP 167
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716
Berden, Giel	TP 544TOH am 08:30TOH am 08:50TOH am 08:50ThP 464MP 716TOH 313MP 717MP 349TP 153MP 123ThP 655TP 265TP 265TP 265ThP 248ThP 120WP 284ThP 120WP 284ThP 277TOG am 09:10MP 619MP 115WP 148TP 032ThP 468TP 703WP 530MP 717TP 167TP 1691TP 1691TP 059TP 059
Berden, Giel	
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 ThP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 THP 691 TP 167 THP 691 TP 081 THP 691 THP 066 WP 567
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 ThP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 THP 691 TP 167 THP 691 TP 081 THP 691 THP 066 WP 567
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 ThP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 TP 167 ThP 691 TP 059 TP 081 ThP 081 ThP 086 WP 567 MP 659
Berden, Giel	TP 544 .TOH am 08:30 .TOH am 08:30 .TOH am 08:50 .ThP 464 .MP 716
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 TOH am 08:50 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 TP 167 TP 167 TP 167 TP 059 TP 081 ThP 066 MP 569 TP 042 WOE pm 03:10
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 TOH am 08:50 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 TP 167 TP 167 TP 167 TP 059 TP 081 ThP 066 MP 569 TP 042 WOE pm 03:10
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:50 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 671 TP 032 ThP 666 MP 530 MP 717 TP 167 TP 167 TP 059 TP 081 ThP 066 WP 567 MP 659 TP 042 WOE pm 03:10 TP 726
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 TP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 277 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 TP 167 ThP 691 TP 059 TP 042 WP 567 MP 659 TP 042 WOE pm 03:10 TP 726 WO 800
Berden, Giel	TP 544 TOH am 08:30 TOH am 08:30 TOH am 08:30 ThP 464 MP 716 ThP 313 MP 717 MP 349 TP 153 MP 123 ThP 655 ThP 265 ThP 248 ThOB pm 04:10 MP 693 ThP 120 WP 284 ThP 17 TOG am 09:10 MP 619 MP 115 WP 148 TP 032 ThP 468 TP 703 WP 530 MP 717 TP 167 ThP 691 TP 081 ThP 081 ThP 081 ThP 080 WP 567 MP 659 TP 081 ThP 081 ThP 086 WP 567 MP 659 TP 042 WOE pm 03:10 TP 7042 WO 800 ThP 328

Bernhardt, Oliver	MP 330
Bernhardt, Oliver	
Bernhardt, OliverWO	
Bernhardt, OliverWO/	A am 09:50
Bernier, Matthew	TP 405
Berry, Alison	MD 551
Berry, DavidMO0	
Berry, Luke	ThP 222
Berry-Kravis, Elizabeth	ThP 001
Bertile, Fabrice	
Bertsch, James	ThP 380
Bertsch, JamesTOO	am 08:30
Bérubé, Eugenie	
Bérubé, Eugenie	IP 697
Bestard-Escalas, Joan	ThP 484
Betancourt, Stella	
Betancourt, Stella	
Betancourt, Stella	
Betchy, Emily	TP 313
Betgovargez, Edna	MP 535
Betgovargez, Edna	IVIP 075
Bettcher, Lisa	MP 148
Beu, SteveTOO	9 pm 02:50
Beucher, Laure	
Beutel, Bruce	
Beuve, Annie	
Beyer, Andreas	MP 114
Beyter, Doruk	
Bezstarosti, KarelTO0	c am 09:30
Bezzina, James	TP 254
Bhandari, DhakaWOI	
Bhandarkar, Deepti	
Bhandarkar, Deepti	
Bhandarkar, Deepti	TP 198
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Bhanu, Natarajan	WP 160
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Bhargava, Rohit	
Bhaskaran, Suraj	ThP 354
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Bhaskaran, SurajBhat, Suhail Muzaffar	ThP 354 ThP 186
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Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633
Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633 ThP 108
Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633 ThP 108
Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633 ThP 108 WP 602
Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633 ThP 108 WP 602 TP 574
Bhaskaran, Suraj	ThP 354 ThP 186 ThP 001 MP 633 ThP 108 VP 602 TP 574 TP 398
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 482
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 482
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 482WP 482
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 482WP 482
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 482WP 482WP 046WP 047
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 482MP 046WP 047WP 128
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 482WP 046WP 047WP 128WP 128WP 128WP 171
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 121WP 125WP 125WP 125WP 121
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 121WP 125WP 125WP 125WP 121
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 128WP 128WP 111ThP 312
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 482MP 046WP 128TP 151WP 711ThP 312WP 442WP 4456
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633ThP 108WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 047WP 128WP 128WP 711WP 711ThP 312WP 442WP 442WP 442WP 442WP 442
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633ThP 108WP 602TP 574YP 433WP 443WP 443WP 480WP 480WP 047WP 128WP 128WP 711WP 711WP 711WP 711WP 440WP 440WP 128WP 128WP 128WP 128WP 128WP 128WP 107WP 312WP 312WP 445WP 456WP 398
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633ThP 108WP 602TP 574YP 433WP 443WP 443WP 480WP 480WP 047WP 128WP 128WP 711WP 711WP 711WP 711WP 440WP 440WP 128WP 128WP 128WP 128WP 128WP 128WP 107WP 312WP 312WP 445WP 456WP 398
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 482WP 128WP 128WP 128WP 171WP 711WP 711ThP 312WP 442WP 450WP 450
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 128WP 128WP 1312WP 442WP 456WP 456WP 456WP 398WP 398WP 398WP 398
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 481WP 128TP 151WP 1711ThP 312WP 442WP 4456TP 107WP 438WP 136WP 136WP 431
Bhaskaran, Suraj	ThP 354ThP 186ThP 001MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 481WP 128TP 151WP 1711ThP 312WP 442WP 4456TP 107WP 438WP 136WP 136WP 431
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 603ThP 108WP 602TP 574WP 433WP 433WP 443WP 480WP 047WP 128WP 711ThP 312WP 442WP 442WP 448WP 449WP 138
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 603WP 602TP 574WP 433WP 433WP 443WP 480WP 480WP 047WP 128WP 128WP 711WP 711WP 711WP 712WP 442WP 442WP 443WP 443WP 128WP 441WP 442WP 442WP 443WP 445WP 445WP 138WP 138WP 188WP 118
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 128WP 128WP 111WP 312WP 411WP 450WP 450WP 312WP 450WP 450WP 110WP 111WP 318WP 456WP 456WP 136WP 138WP 138WP 138WP 138WP 138WP 110WP 111
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633ThP 108WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 128WP 128WP 171ThP 312WP 471WP 450WP 442WP 450WP 443WP 456TP 157WP 318WP 449WP 450WP 136WP 136WP 138WP 138WP 138WP 138WP 110WP 111TP 170
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 111TP 170WP 398WP 442WP 456WP 456TP 107WP 398WP 489WP 136WP 138WP 138WP 138WP 138WP 111TP 170
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 633WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 480WP 111TP 170WP 398WP 442WP 456WP 456TP 107WP 398WP 489WP 136WP 138WP 138WP 138WP 138WP 111TP 170
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 128WP 711ThP 312WP 442WP 480WP 128TP 151WP 711ThP 312WP 442WP 442WP 448WP 118WP 118WP 119WP 138WP 110WP 111TP 170WP 111TP 170WP 111TP 170WP 111
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 128TP 151WP 711ThP 312WP 412WP 412WP 412WP 312WP 313WP 313
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 603ThP 108WP 602TP 574WP 433WP 443WP 443WP 480WP 480WP 128WP 128WP 128WP 128WP 141WP 312WP 442WP 442WP 148WP 149WP 149WP 149WP 140WP 110WP 111TP 170WP 111TP 170WP 111TP 170WP 136WP 111TP 170TP 280TP 195TP 195TP 212MP 336
Bhaskaran, Suraj	ThP 354ThP 186ThP 108WP 603ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 128WP 128ThP 151WP 711ThP 312WP 442WP 450WP 450WP 128TP 151WP 711ThP 312WP 410WP 110WP 110TP 107MP 398WP 136WP 136WP 110WP 111TP 170TP 280TP 195TP 195TP 195TP 195TP 195TP 195TP 195TP 212MP 336ThP 659
Bhaskaran, Suraj	ThP 354ThP 186ThP 108ThP 108WP 633ThP 108WP 602TP 574TP 398WP 443WP 443WP 446WP 480WP 482MP 046WP 115ThP 312WP 412WP 456TP 107MP 398WP 489MP 136WP 111ThP 312WP 110TP 170TP 280TP 170TP 280TP 195TP 176TP 212MP 336TP 1659TP 567
Bhaskaran, Suraj	ThP 354ThP 186ThP 108ThP 108WP 633ThP 108WP 602TP 574TP 398WP 443WP 443WP 446WP 480WP 482MP 046WP 115ThP 312WP 412WP 456TP 107MP 398WP 489MP 136WP 111ThP 312WP 110TP 170TP 280TP 170TP 280TP 195TP 176TP 212MP 336TP 1659TP 567
Bhaskaran, Suraj	ThP 354ThP 186ThP 108ThP 001WP 602TP 574Th 398WP 433WP 443WP 480WP 480WP 128WP 711ThP 312WP 711ThP 312WP 442WP 480WP 128WP 128WP 128WP 116WP 117ThP 312WP 442WP 442WP 442WP 116
Bhaskaran, Suraj. Bhat, Suhail Muzaffar. Bhat, Vadi	ThP 354ThP 186ThP 108ThP 001WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 128WP 128TP 151WP 711ThP 312WP 442WP 442WP 442WP 136TP 107MP 398WP 136WP 131WP 131WP 131ThP 312WP 136TP 170TP 170TP 170TP 170TP 170
Bhaskaran, Suraj	ThP 354ThP 186ThP 108ThP 001WP 602TP 574TP 398WP 433WP 443WP 480WP 480WP 480WP 128TP 151WP 171ThP 312WP 412WP 413WP 414WP 128TP 151WP 115WP 111ThP 312WP 442WP 442WP 440WP 128WP 110WP 110TP 170WP 111TP 170TP 170TP 170TP 170
Bhaskaran, Suraj. Bhat, Suhail Muzaffar. Bhat, Vadi	ThP 354ThP 186ThP 108MP 633ThP 108WP 602TP 574TP 398WP 433WP 441WP 480WP 480WP 128WP 128TP 151WP 711ThP 312WP 412WP 442WP 450WP 418WP 418WP 419WP 110TP 151WP 111TP 170MP 398WP 136WP 110WP 111TP 170TP 280TP 195TP 195TP 195TP 195TP 195TP 195TP 195TP 196TP 460ThP 660Th 660Th 660Th 6681

Bichell, David	MP 301
Bickel, Grant	ThP 145
Biddlecombe, Robert	TP 072
Bieberich, Charles	ThP 563
Biegel, J	
Biemann, Anna	ThP 490
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Bienkowski, Tomasz	WP 023
Bienkowski, Tomasz	ThP 094
Bier, Mark	WP 216
Bierbaum, Veronica	
Bierbaum, Veronica	ThP 194
Bierkandt, Thomas	WP 122
Bigwarfe, Tammy	ThP 044
Bilbao, AivettTOA	nm 03:30
Bilbao Pena, Aivett	TD 374
Bilada Andrea	15 374
Bileck, Andrea ThOG	am 08:30
Billin, Andrew	
Billing, Anja	ThP 330
Billiras, Rodolphe	WP 054
Bills, Brandon	MP 102
Binkley, Joe	IVIF 104
Biniakewitz, Robert	vvP 460
Binkley, Joe	MP 261
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Binkley, Joe	
Binkley, Joe	
Binneboese, Laura	
Birbeck, Johnna	
Birch, Garrison	WP 375
Bird, Gregory	
Bird, Gregory	ThD 224
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Birdsall, Robert	
Birdsall, Robert	TP 542
Birdsall, RobertThOB	am 09:30
Bisbicos, TommyMOD	
Bischoff, Daniel	MP 130
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Bischoff, Rainer	IVIP 520
Biswas, SayanWOB	am 10:10
Biswas, SayanWOB Bitan, Gal	am 10:10 MP 571
Biswas, SayanWOB Bitan, Gal	am 10:10 MP 571
Biswas, SayanWOB Bitan, GalBittremieux, Wout	am 10:10 MP 571 ThP 332
Biswas, SayanWOB Bitan, Gal Bittremieux, Wout Bittremieux, Wout	am 10:10 MP 571 ThP 332 ThP 343
Biswas, SayanWOB Bitan, Gal	am 10:10 MP 571 ThP 332 ThP 343 WP 703
Biswas, SayanWOB Bitan, Gal	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489
Biswas, SayanWOB Bitan, Gal Bittremieux, Wout Bittremieux, Wout Bize, Pierre Blachowicz, Adriana Black, Alyson	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299
Biswas, SayanWOB Bitan, Gal Bittremieux, Wout Bittremieux, Wout Bize, Pierre Blachowicz, Adriana Black, Alyson	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299
Biswas, SayanWOB Bitan, Gal Bittremieux, Wout Bittremieux, Wout Bitze, Pierre Blachowicz, Adriana Black, Alyson Black, RachelleMOF	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299
Biswas, SayanWOB Bitan, Gal	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299 f am 10:10 MP 122
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299 am 10:10 MP 122 WP 028
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299 f am 10:10 MP 122 WP 028 MP 552
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 MP 299 fam 10:10 MP 122 WP 028 WP 028 MP 552
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 am 10:10 MP 122 MP 028 MP 5524 MP 5524 WP 144
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 am 10:10 MP 122 MP 028 MP 5524 MP 5524 WP 144
Biswas, Sayan	am 10:10 MP 571 ThP 332 ThP 343 WP 703 WP 489 am 10:10 MP 122 MP 524 MP 5524 MP 554 WP 144
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 554WP 144TP 644ThP 393
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122MP 552MP 554WP 144ThP 393MP 169
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 554WP 144ThP 393ThP 169ThP 169
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 524WP 144TP 644TP 644ThP 393ThP 169MP 021ThP 508
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 524WP 144TP 644TP 644ThP 393ThP 169MP 021ThP 508
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 544TP 644TP 644TP 645MP 021
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 554ThP 644TP 644TP 393ThP 169MP 021ThP 508 pm 03:10TP 025MP 699
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 544ThP 393ThP 169ThP 169ThP 508 pm 03:10TP 025MP 699MP 168
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028WP 552MP 552MP 554WP 144ThP 303ThP 169MP 021ThP 508MP 699MP 699MP 699MP 699MP 695MP 699
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028WP 552MP 552MP 554WP 144ThP 303ThP 169MP 021ThP 508MP 699MP 699MP 699MP 699MP 695MP 699
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 524WP 144ThP 393ThP 169MP 021ThP 508 pm 03:10TP 025MP 698TP 659 pm 03:50 am 08:30
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 554MP 144TP 644ThP 393ThP 169MP 021ThP 508MP 699MP 168TP 659MP 168TP 659MP 168TP 659MP 168TP 659MP 168TP 659MP 168TP 659MP 168TP 659
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 fam 10:10MP 122MP 552MP 552MP 554MP 554MP 649ThP 303ThP 169MP 168TP 659 pm 03:50 l am 08:30 pm 02:50WP 271
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 am 10:10MP 552MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508 pm 03:10 am MP 168TP 659 pm 03:50 am 08:30 pm 02:50WP 271MP 276
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 552MP 544ThP 393ThP 169ThP 169MP 699MP 699MP 659MP 699MP 168ThP 508MP 699MP 168ThP 508MP 699MP 168TP 025MP 392MP 270MP 271MP 271MP 276
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028WP 552MP 552MP 552MP 544ThP 393ThP 169MP 021ThP 508MP 659MP 699MP 699MP 168ThP 508MP 168ThP 508MP 168ThP 508MP 250MP 276MP 276MP 276MP 276MP 276MP 276MP 292ThP 333
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028WP 552MP 552MP 552MP 544ThP 393ThP 169MP 021ThP 508MP 659MP 699MP 699MP 168ThP 508MP 168ThP 508MP 168ThP 508MP 250MP 276MP 276MP 276MP 276MP 276MP 276MP 292ThP 333
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 554ThP 644ThP 644ThP 393ThP 169MP 021ThP 508MP 699MP 168TP 659MP 271MP 271MP 272MP 273MP 274MP 274MP 275MP 276MP 276MP 276MP 276MP 276MP 271MP 272MP 273MP 178
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 122WP 028MP 552MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508 pm 03:10TP 659 pm 03:50 lam 08:30 am 08:30 am 08:30 am MP 271MP 276MP 271MP 276MP 292ThP 333MP 178MP 178
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 am 10:10MP 122MP 552MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508 pm 03:10TP 659 pm 03:50 l am 08:30 pm 02:50WP 271MP 276MP 292ThP 333MP 178MP 168
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 552MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508 pm 03:10TP 659 pm 03:50 am 08:30 pm 02:50 pm 02:50WP 271MP 276MP 292ThP 333MP 178
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 129 am 10:10MP 152MP 552MP 552MP 554MP 564MP 164ThP 169MP 168 am 10:10ThP 169MP 699 am 3:10ThP 508 am 03:10ThP 508 am 03:10ThP 508 am 03:10ThP 508 am 10:50 am MP 168 am MP 168MP 271MP 271MP 272MP 273MP 178MP 168MP 166MP 178MP 167MP 168MP 168MP 168MP 169MP 167MP 168
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 199 am 10:10MP 122WP 028MP 552MP 552MP 554MP 554ThP 644ThP 393ThP 169MP 03:10TP 025MP 699MP 168ThP 699MP 271MP 276MP 271MP 276MP 276MP 178MP 178MP 178MP 178MP 178MP 178MP 178ThP 481ThP 481
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489WP 299 am 10:10MP 122WP 028WP 552WP 552WP 554WP 144TP 644ThP 393ThP 169MP 168MP 699MP 168TP 659 pm 03:50 pm 02:50WP 271WP 271MP 276MP 292MP 178MP 180MP 178MP 180MP 178MP 180MP 180
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489WP 299 am 10:10MP 122WP 028WP 552WP 552WP 554WP 144TP 644ThP 393ThP 169MP 168MP 699MP 168TP 659 pm 03:50 pm 02:50WP 271WP 271MP 276MP 292MP 178MP 180MP 178MP 180MP 178MP 180MP 180
Biswas, Sayan	am 10:10MP 571ThP 332ThP 343WP 703WP 489MP 299 am 10:10MP 122MP 552MP 552MP 552MP 552MP 554MP 169MP 03:10ThP 508 pm 03:10 lam 08:30 lam 168MP 178MP 178MP 178MP 178MP 178MP 178ThP 486ThP 480ThP 480
Biswas, Sayan	am 10:10MP 571ThP 332WP 703WP 489MP 299 am 10:10MP 552MP 552MP 554WP 144ThP 393ThP 169MP 021ThP 508 c pm 03:10TP 659 c pm 03:50 d am 08:30 d pm 02:50MP 271MP 276MP 276MP 168ThP 393MP 178 c pm 03:50 d am 08:30 d pm 02:50 d m 168 d m 178 d

Blank, Paul	MP 426
Blanksby, Stephen	
Blanksby, Stephen	
Blanksby, Stephen	
Dianksby, Stephen	VVF 410
Blanksby, Stephen	WOD pill 02.30
Blanksby, Stephen	TOH pm 03:50
Blanksby, Stephen J	TP 254
Blanksby, Stephen J	
Blatchley, Ernest	TOD pm 03:10
Blatz, Joshua	
Blaženović, Ivana	WP 392
Blaženović, Ivana	MOC pm 02:50
Bleiholder, Christian	MOF am 09:30
Bleiholder, Christian	WOH nm 03:10
Blethen, Tracy	
Blin Simiand, Nicole	
Blincoe, William	
Bloch, Nicolas	
Block, Leah	
Blokland, Marco	
Blonder, Josip	TP 563
Blonder, Josip	TP 619
Bloodsworth, Kent	
Bloom, Anna	TP 347
Bloomfield, Nic	
Bludau, Isabell	
Bludau, Isabell	
Blue, Laura	
Blue, Steven	
Blume, John	
Bo , Tao	TP 709
Bo , Tao	TP 526
Bo , Tao	
Bo , Tao	TP 203
Bo , Tao	TP 466
Boakye, Adjoa	TP 710
Boase, Nathan	
Bobe, Gerd	
Bobe, Gerd	
Bobes, Raul	
Bobst, Cedric	
Bobst, Cedric	
Bock, Thomas	TD 634
Bodai, Zsolt	
Bodai, Zsolt	
Bodai, Zsolt	VVP 437
Bodai, Zsolt	
Bodai, Zsolt	
Bodai, Zsolt	
Bodenhausen, Geoffrey	
Bodnar, Edward	
Bodunrin, Abiodun	
Bodunrin, Abiodun	WP 508
Bodunrin, Abiodun	
Boehm, Guenter	
Boeltz, Harry	WOG pm 04:10
Boeser, Cornelia	WP 008
Boeser, Cornelia	
Boeser, Cornelia	
Boettcher, Michael	
Bohn, Paul	
Bohon, Jen	
Bohon, Jen	
Boice, Aaron	
Boice, Aaron	
Boiteau, Rene	
Boja, Emily	
Bojar, Richard	
Bojko, Barbara	MP 111
Bojko, Barbara	
Bojko, Barbara	
Bojko, Barbara	
Bok, Jinwoo	
Bokhart, Mark	
Bokhart Mark	WP 282
Bokhart, Mark	
Bokhart, Mark	.WOF pm 04:10
	.WOF pm 04:10

Bolcato, Christopher	MP 33
Bolcato, Christopher	
Bolden, Chris	
Bolden, Denzel	
Boll, Dmitriy	
Boll, Dmitriy	
Bolliger, Reto	MP 10
Bollinger, James	
Bollinger, James	
Bollyky, Paul	
Bolt, Frances	TOF pm 02:3
Bolton, Judy	
Bolufer, Alexander	
Bomgarden, Ryan	
Bomgarden, Ryan	
Bomgarden, Ryan	
Bomgarden, Ryan	
Bomgarden, Ryan D	
Bonazza, Klaus	ThP 20
Bond, Kevin	ThOE am 09:3
Bond, Nicholas	
Bond, Nicholas	
Bondarenko, Andrey	
Bondarenko, Pavel	WOC nm 02.5
Bonenfant, G	
Bong, Sze How	
Bongaards, Rik	MP 11
Bonissone, Stefano	
Bonn, Britta	ThP 29
Bonne, Gisèle	TP 57
Bonneil, Eric	ThP 39
Bonnel, David	
Bonnel, David	
Bonnel, David	
Donnel David	VVF 30
Bonnel, David	
Bonner, James	
Bonneu, Marc	
Bonneu, Marc	
Bonneville, Russell	
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Bonvallot, Nathalie	TOD am 09:1
Bonvallot, Nathalie Boock, Jared.	
Boock, Jared	MP 01
Boock, Jared Boock, Jared	MP 01 ThP 39
Boock, Jared Boock, Jared Boocock, David	MP 01 ThP 39 ThOC pm 02:5
Boock, Jared Boock, Jared Boocock, David Boon Hon, Wei	MP 01 ThP 39 ThOC pm 02:5 ThP 13
Boock, Jared Boock, Jared Boocock, David Boon Hon, Wei Boonen, Annelies	MP 01 ThP 39 ThOC pm 02:5 ThP 13
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33
Boock, Jared	MP 01ThP 39 ThOC pm 02:5ThP 13TP 33ThP 02
Boock, Jared	
Boock, Jared	
Boock, Jared	MP 01MP 03 ThOC pm 02:5ThP 13Th 93 ThP 02ThP 64TP 29WP 24ThP 55
Boock, Jared	MP 01MP 03 ThOC pm 02:5ThP 13Th 93 ThP 02ThP 64TP 29WP 24ThP 55
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 TP 33 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 MP 63
Boock, Jared	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 48 TP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 48 TP 05 ThP 05 MP 05 MP 33
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 05 MP 05 TP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 MP 63 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05
Boock, Jared Boock, Jared Boocock, David Boonen, Annelies. Boonma, Prapaporn Booth, Claudia Booth, Christine Booth, Christine Booth, Christine Booth, Christioph Borchers, Christoph	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 TP 05 ThP 05
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 48 TP 05 ThP 05
Boock, Jared. Boock, Jared. Boock, Jared. Boocok, David. Boon Hon, Wei Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Booth, Christine. Boothroyd, John. Borchers, Christoph	MP 01 ThP 39 ThOC pm 02: ThP 13 ThP 13 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 ThP 05 ThP 05 ThP 05 ThP 66 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65 ThP 65
Boock, Jared. Boock, Jared. Boock, Jared. Boocok, David. Boon Hon, Wei Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Boot, Claudia Boothroyd, John. Borchers, Christoph	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 05 ThP 65
Boock, Jared Boock, Jared Boocck, David Boonen, Annelies Boonma, Prapaporn Booth, Claudia Booth, Christine Boothroyd, John Borchers, Christoph	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 TP 05 ThP 06 TP 06 ThP 06 TP 06 ThP 06 ThP 06 ThP 63 ThP 63 ThP 63 ThP 63 ThP 63 ThP 63 ThP 64 MP 48
Boock, Jared Boock, Jared Boocck, David Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Boot, Claudia Boothroyd, John Borchers, Christoph Borcheran, Douglas. Borges Lima, Diogo	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 63 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 65
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 ThP 05 ThP 06 ThP 05 MP 33 ThP 66 ThP 65 MP 33 ThP 66 ThP 65 MP 48 MP 48 MP 48 MP 49 MP 49 MP 49 MP 49 MP 40 MP 60 MP 60
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 63 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 MP 33 ThP 26 ThP 63 ThP 63 ThP 65 TP 63 MP 48 MP 45 MOE pm 03:1 MOA pm 03:1 MOA pm 03:1 MP 68
Boock, Jared. Boock, Jared. Boock, Jared. Boocok, David. Boon Hon, Wei Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Boot, Claudia Boothroyd, John. Borchers, Christoph	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 65
Boock, Jared Boock, Jared Boocck, David Boonen, Annelies Boonma, Prapaporn Booth, Claudia Booth, Christine Boothroyd, John Borchers, Christoph Borchman, Douglas Borges Lima, Diogo Borghys, Herman Borisov, Roman Borland, Kayla	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 TP 05 ThP 06 TP 06 ThP 06 ThP 06 ThP 06 ThP 06 ThP 63 ThP 63 ThP 64 ThP 65 ThP 63 ThP 65 ThP 63 MP 48 MOE pm 03:1 MOA pm 03:1 MOA pm 03:1 MP 65 WP 16 WP 16 WP 16
Boock, Jared. Boock, Jared. Boock, Jared. Boocok, David. Boon Hon, Wei Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Boot, Claudia Boothroyd, John. Borchers, Christoph	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 TP 05 ThP 06 TP 06 ThP 06 ThP 06 ThP 06 ThP 06 ThP 63 ThP 63 ThP 64 ThP 65 ThP 63 ThP 65 ThP 63 MP 48 MOE pm 03:1 MOA pm 03:1 MOA pm 03:1 MP 65 WP 16 WP 16 WP 16
Boock, Jared Boock, Jared Boocck, David Boonen, Annelies Boonma, Prapaporn Booth, Claudia Booth, Christine Boothroyd, John Borchers, Christoph Borchman, Douglas Borges Lima, Diogo Borghys, Herman Borisov, Roman Borland, Kayla	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 MP 63 ThP 05 ThP 05 ThP 05 ThP 05 ThP 05 ThP 65 MP 48 MP 48 MP 48 MP 49 ThOD am 09:1
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 TP 33 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 48 TP 05 ThP 06 ThP 66 ThP 66 ThP 67 ThP 68 MP 48 MP 48 TP 69 MP 49 TP 49 MP 59 MP 59 MP 69 MP 59 MP 69
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 48 TP 05 ThP 06 ThP 06 ThP 66 ThP 67 ThP 68 ThP 68 ThP 68 MP 48 MP 49 MP 69
Boock, Jared. Boock, Jared. Boock, Jared. Boocok, David. Boon Hon, Wei Boonen, Annelies. Boonma, Prapaporn Boons, Geert-Jan Booth, Christine. Boothroyd, John. Borchers, Christoph	MP 01 ThP 39 ThOC pm 02: ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 53 MP 63 TP 05 ThP 05 ThP 05 ThP 65
Boock, Jared	MP 01 ThP 39 ThOC pm 02:5 ThP 13 TP 33 ThP 02 ThP 64 TP 29 WP 24 ThP 55 MP 05 MP 63 MP 63 TP 05 ThP 06 TP 06 ThP 06 ThP 06 ThP 06 ThP 06 ThP 63 ThP 65 ThP 63 ThP 65 ThP 63 MP 45 MP 49 MP 49 MP 49 ThOD am 09:1 MP 59 MP 65 MP 59 MP 65 MP 65 TP 49 ThOD am 09:1 MP 59 MP 65 MP 65 MP 65 MP 15 MP 65 MP 15 MP 65 MP 15 MP 65 MP 15 MP 65 MP 16 MP 16 MP 16 MP 16 MP 16 MP 16 MP 16 MP 16 MP 16 MP 16 MP 17 MP 18

Borri, Fabio		ThP 082
Borton, Christopher		ThP 167
Borton, ChristopherBorton, Christopher		MP 3/2
Borton, Christopher Borton, Christopher		TD 201
Borts, David		
Borts David		TP 701
Borts, David Borts, David		ThP 498
Boskamp, Tobias		
Boskamp, Tobias		WP 278
Boskamp, Tobias		ThP 276
Botch-Jones, Sabra	MOD	am 09:30
Bothner, Brian		
Bothner, Brian		
Bothner, Brian		ThP 687
Botonjic-Sehic, Edita		WP 087
Botrè, Francesco Botrè, Francesco		IVIP 227
Bott, Adrian		
Bott, Adrian		
Bottini, Nunzio		
Botzanowski, Thomas		
Bou-Assaf, George		
Bouchard, Maryse	WOB	pm 03:50
Boucher, Nancy		WP 176
Bouclon, Julien		ThP 251
Boudreau, Amandine Boughton, Berin		TP 063
Boughton, Berin	WOF	pm 04:10
Boulanger, Madeleine Boulant, Steeve		MP 487
Boulant, Steeve	ThOF	am 09:10
Bournonville, Blandine		IP 414
Bouslimani, Amina		IP 520
Bouslimani, Amina		
Boutaghou, Mohamed Bouwman, Kim		
Bowden, John		
Bowden, John		MP 419
Bowden, John		WP 405
Bowden , John		WP 411
Bowden , John		ThP 454
Bowden, John		
Bowden, John	WOD	am 09:10
Bowers, Michael		TP 248
Bowers, Michael	.TOH	am 09:30
Bowers, Michael T	MOF	am 08:30
Bowman, Aaron		ThP 514
Bowman, Andrew		MP 654
Bowman, Andrew		MP 243
Bowman, Andrew		ThP 415
Bowman, Andrew		
Bowman, Gene		ThP 653
Bowra, Steve Boxleitner, Jochen		ThP 528
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Boyacı, Ezel Boyaci, Ezel		IVIF 013
Boyacı, EzelBoyacı, Ezel		
Boyacı, Ezel	TOD	nm 02:50
Boyano, Maria		MP 280
Boychenko, Alexander		MP 520
Boychenko, Oleksandr		ThP 237
Boyd, Asha		MP 570
Boyd, Eric		ThP 222
Boyes, Barry		TP 313
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Boyes, Barry		
Boyes, Barry		ThP 601
n i la a kana		ThP 539
Boylan, Kristin		ThP 539 MP 634
Boylan, Kristin Bozatzidis, Andreas		ThP 539 MP 634 TP 381
Boylan, Kristin Bozatzidis, Andreas Bozatzidis, Andreas	ThOC	ThP 539 MP 634 TP 381 pm 04:10
Boylan, Kristin Bozatzidis, Andreas Bozatzidis, Andreas Braakman, Rogier	ThOC	ThP 539 MP 634 TP 381 pm 04:10 MP 480
Boylan, Kristin	ΓhOC	ThP 539 MP 634 TP 381 pm 04:10 MP 480 ThP 374
Boylan, Kristin	ThOC	ThP 539MP 634TP 381 pm 04:10MP 480ThP 374ThP 188
Boylan, Kristin	ThOC	ThP 539 MP 634 TP 381 pm 04:10 MP 480 ThP 374 ThP 188
Boylan, Kristin	ThOC	ThP 539MP 634TP 381 pm 04:10MP 480ThP 374ThP 188ThP 189
Boylan, Kristin	ThOC	ThP 539MP 634TP 381 pm 04:10MP 480ThP 374ThP 188ThP 189TP 425
Boylan, Kristin. Bozatzidis, Andreas	ГЬОС	ThP 539MP 634TP 381 pm 04:10MP 480ThP 374ThP 188ThP 189TP 425TP 071ThP 028
Boylan, Kristin Bozatzidis, Andreas Bozatzidis, Andreas	ThOC	ThP 539MP 634TP 381 pm 04:10MP 480ThP 374ThP 189ThP 425TP 071ThP 028TP 405

Bräkling, Steffen	TP 433
Brandenburg, Arnd	
Brandenburg, Arnd	
Brandtzaeg, Ole Kristian	ThP 426
Brant, Ashley	TP 723
Brent Ashley	TD 724
Brant, Ashley	IP /24
Brant, Ashley	ThP 719
Brant, David	ThP 238
Brantley, Matthew	
Diantiey, Matthew	IVIF 207
Brantley, Matthew	
Brantley, Matthew	TP 123
Brantley, Matthew	WP 287
Brantley, Matthew	WD 280
Diantiey, Matthew	VVI 200
Brantley, Matthew	IP 282
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Brantley, Matthew	
Brox Curnor	WD 024
Brar, Gurnoor	
Brasky, Theodore	
Braslavsky, Ido	MP 202
Bratburd, Jennifer	
Brauer, Jonathan	IVIP 360
Braun, Craig	MP 641
Bravo, Jennifer	WP 429
Bray, Fabrice	
Brazzatti, Julie	
Brazzatti, JulieTO	A am 09:10
Breen, Michael	
Breen, Susan	
Dieen, Susan	15 319
Brege, Matthew	WP 137
Bregy, Lukas	ThP 111
Breidinger, Sheila	TP 149
Brelsford, Jeff	
Brendza, Katherine	
Brendza, Katherine	ThP 675
Bretschneider, Tom	MP 130
Breuker, Kathrin	WD E44
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Breuker, Kathrin	WP 560
Breuker, Kathrin	TP 537
Breuker, Kathrin	
Breuker, Kathrin	TP 549
Bricklebank, Neil	TP 549 ThP 279
Bricklebank, Neil	TP 549 ThP 279
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606 ThP 226
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606 ThP 226
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606 ThP 226 WP 681
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606 ThP 226 WP 681 WP 653
Bricklebank, Neil	TP 549 ThP 279 A pm 02:50 WP 606 ThP 226 WP 681 WP 653 MP 327
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606ThP 226WP 681WP 653WP 327WP 341
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 327WP 344
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 327WP 344
Bricklebank, Neil	TP 549ThP 279 'A pm 02:50WP 606WP 681WP 681WP 653MP 327WP 341WP 344 G am 10:10
Bricklebank, Neil	TP 549ThP 279 IA pm 02:50WP 606WP 681WP 653WP 327WP 341WP 344WP 340WP 340WP 340WP 340
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536WP 536ThP 025
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 683MP 327WP 341WP 344 G am 10:10WP 536WP 536WP 339
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 683MP 327WP 341WP 344 G am 10:10WP 536WP 536WP 339
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 339
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 681WP 653WP 341WP 341WP 344 G am 10:10WP 536ThP 025WP 339WP 349
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 681WP 653MP 327WP 344 G am 10:10WP 536MP 329WP 349MP 542WP 494MP 494
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 349WP 494WP 494WP 494WP 494WP 498
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 349WP 494WP 494WP 494WP 494WP 498
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344WP 346WP 348WP 490WP 490ThP 189ThP 188
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 681WP 653MP 327WP 344 G am 10:10WP 536MP 536WP 339WP 494TP 490Th 189TP 188
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 681WP 653WP 341WP 341WP 344 G am 10:10WP 536ThP 025WP 494ThP 490ThP 188TP 425MP 580
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606 ThP 226WP 681WP 653MP 327WP 344 G am 10:10WP 536WP 339MP 542WP 494ThP 490ThP 189ThP 188TP 1425
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606 ThP 226WP 681WP 653MP 327WP 344 G am 10:10WP 536WP 339MP 542WP 494ThP 490ThP 189ThP 188TP 1425
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 606WP 653WP 341WP 344 G am 10:10WP 536WP 539MP 549TP 189TP 188TP 188TP 114WP 316
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606 ThP 226WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 339MP 542WP 494 ThP 490ThP 188TP 114WP 316TP 114WP 316
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 606WP 653WP 341WP 344 G am 10:10WP 536MP 536ThP 025WP 349TP 149TP 189TP 188TP 188TP 189TP 180TP 180TP 180TP 180TP 180TP 180TP 180TP 180TP 180TP 190TP 190 .
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 681WP 653WP 341WP 341WP 344 G am 10:10WP 536ThP 025WP 339WP 494ThP 188TP 188TP 188TP 188TP 114WP 316WP 310ThP 188TP 114WP 316ThP 685
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606 ThP 226WP 681WP 653MP 327WP 344 G am 10:10WP 536MP 525WP 349ThP 189ThP 189ThP 188TP 142WP 316WP 316MP 250WP 635
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606 ThP 226WP 681WP 653MP 327WP 344 G am 10:10WP 536MP 525WP 349ThP 189ThP 189ThP 188TP 142WP 316WP 316MP 250WP 635
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 606WP 653WP 341WP 344 G am 10:10WP 536MP 542WP 349TP 148TP 490TP 189TP 189TP 189TP 189TP 185TP 455WP 316TP 114WP 316TP 573
Bricklebank, Neil	TP 549TP 549TP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536TP 025WP 349TP 148TP 189TP 189TP 114WP 316MP 250WP 213TP 635
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 339MP 542WP 494 ThP 490Th 188TP 425MP 580TP 114WP 316MP 250WP 213Th 635TP 673TP 665TP 471
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536ThP 025WP 339MP 542WP 494 ThP 490Th 188TP 425MP 580TP 114WP 316MP 250WP 213Th 635TP 673TP 665TP 471
Bricklebank, Neil	TP 549ThP 279 YA pm 02:50WP 606WP 606WP 653WP 653WP 341WP 341WP 344 G am 10:10WP 536ThP 025WP 494ThP 188ThP 188TP 188TP 114WP 316WP 319ThP 189ThP 189ThP 189ThP 189ThP 180TP 114WP 316MP 550TP 114WP 316TP 615TP 673TP 675TP 471 C pm 03:30
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341 G am 10:10WP 536MP 327WP 344 G am 10:10WP 536ThP 025WP 494ThP 189ThP 180ThP 180ThP 316ThP 635ThP 635ThP 635ThP 471 C pm 03:30 G pm 03:30
Bricklebank, Neil	TP 549TP 549ThP 279 A pm 02:50WP 606WP 606WP 653MP 327WP 341 G am 10:10WP 536ThP 025WP 494ThP 189ThP 188TP 142WP 316WP 316TP 114WP 316TP 176WP 615TP 177TP 635TP 635TP 635TP 635TP 635TP 573TP 665TP 471 C pm 03:30 G pm 03:30 H pm 03:30
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341 G am 10:10WP 336MP 542WP 349ThP 189ThP 188ThP 188ThP 189ThP 189ThP 189ThP 180ThP 180ThP 170WP 316ThP 635ThP 635TP 573ThP 635TP 573TP 665TP 471 C pm 03:30 G pm 03:30 H pm 03:30ThP 054
Bricklebank, Neil	TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341 G am 10:10WP 336MP 542WP 349ThP 189ThP 188ThP 188ThP 189ThP 189ThP 189ThP 180ThP 180ThP 170WP 316ThP 635ThP 635TP 573ThP 635TP 573TP 665TP 471 C pm 03:30 G pm 03:30 H pm 03:30ThP 054
Bricklebank, Neil	TP 549TP 549TP 279 A pm 02:50WP 606WP 681WP 653WP 341WP 344 G am 10:10WP 536TP 025WP 339MP 542WP 494 ThP 490TP 114WP 316MP 580TP 17WP 316TP 471 C pm 03:30 G pm 03:30 ThP 054TP 055
Bricklebank, Neil	TP 549TP 549ThP 279 A pm 02:50WP 606WP 606WP 653MP 341WP 341WP 341WP 344 G am 10:10WP 536ThP 025WP 494WP 494ThP 188TP 188TP 114WP 316TP 179TP 655TP 615TP 673TP 673TP 673TP 673TP 673TP 673TP 673TP 673TP 673TP 174 C pm 03:30 G pm 03:30 H pm 03:30 H pm 03:30 ThP 054ThP 055 E pm 03:10
Bricklebank, Neil	TP 549TP 279 A pm 02:50WP 606WP 606WP 653WP 341WP 344 G am 10:10WP 536MP 542WP 494TP 490ThP 189TP 471WP 316WP 316TP 573TP 615TP 673TP 673TP 673TP 675TP 471 C pm 03:30 G pm 03:30 H pm 03:30 H pm 03:30 H pm 03:30 E pm 03:10TP 176
Bricklebank, Neil	TP 549TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341 G am 10:10WP 336MP 542WP 344 G am 10:10WP 336TP 1425WP 349TP 148TP 425WP 316WP 316WP 316MP 580TP 176WP 316TP 176 G pm 03:30 H pm 03:30 H pm 03:30ThP 055 E pm 03:10TP 176 E am 08:30
Bricklebank, Neil	TP 549TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341 G am 10:10WP 336MP 542WP 344 G am 10:10WP 336TP 1425WP 349TP 148TP 425WP 316WP 316WP 316MP 580TP 176WP 316TP 176 G pm 03:30 H pm 03:30 H pm 03:30ThP 055 E pm 03:10TP 176 E am 08:30
Bricklebank, Neil	TP 549TP 549ThP 279 A pm 02:50WP 606WP 606WP 653WP 341WP 344 G am 10:10WP 536MP 542WP 349ThP 189ThP 189ThP 189ThP 189ThP 189ThP 189TP 176WP 316WP 316TP 573TP 655TP 471 C pm 03:30 G pm 03:30 H pm 03:30 H pm 03:30 H pm 03:30ThP 054ThP 055 E pm 03:10 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176 E am 08:30ThP 176

Broeckling, Corey	MP 466
Broeckling, Corey	ThP 494
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Brombach, Dorith MOI	VVP 303
Bronova, Irina	ThP 464
Bronsema, Kees	TP 065
Bronzetti, Maurizio	WP 631
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Brooks, James	
Brophy, Patrick	
Brotto, Marco	TP 681
Brouard, MarkWO	F am 10:10
Broughton, Howard	
Broughton, MarianneBrouwer, Hendrik-Jan	
Brouwer, Hendrik-Jan	
Brouwer, Hendrik-Jan	WP 419
Brown, Brooke	
Brown, CandiceWO	
Brown, Chance	
Brown, Chris	
Brown, Chris	TP 624
Brown, Christopher	
Brown, Christopher	
Brown, DarrenThOl Brown, Heather	
Brown, Jacquelyn	
Brown, Jeff	TP 029
Brown, Jeff	
Brown, Jeff	
Brown, JeffBrown. Jeff	MP 424
Brown, Kyle	
Brown, Lauren	
Brown, Lauren	
Brown, Lewis	
Brown, Naoko	
Brown, Paul	
Brown, Paul W	ThP 702
Brown, Rebecca	
Browne, Michael	MP 530
Browne, Richard	MP 530 TP 107
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Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718
Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718 MP 052
Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718 MP 052 MP 578
Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718 MP 052 MP 578 ThP 383
Browne, Richard	MP 530 TP 107 TP 723 TP 724 MP 052 MP 578 MP 383 A pm 03:30
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578MP 578ThP 383 A pm 03:30 E am 09:10MP 708
Browne, Richard	MP 530TP 107TP 723TP 724ThP 718MP 052MP 578 A pm 03:30 E am 09:10MP 708 E am 08:30
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30WP 080
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578MP 578MP 3330 E am 09:10MP 708 E am 08:30WP 080WP 313WP 330MP 330
Browne, Richard	MP 530 TP 107 TP 723 TP 724 MP 052 MP 578 MP 578 A pm 03:30 A pm 09:10 MP 708 E am 08:30 WP 080 WP 313 MP 330 MP 040 A am 09:30
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30WP 080WP 313WP 310MP 340MP 340
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30WP 080WP 313WP 330WP 340WP
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30WP 080WP 313MP 330WP 040 A am 09:30 A am 09:30 ThP 111ThP 259
Browne, Richard	MP 530 TP 107 TP 723 TP 724 MP 052 MP 578 MP 578 MP 03:30 E am 09:10 MP 708 E am 08:30 WP 080 WP 313 MP 330 MP 340 A am 09:30 MP 111 ThP 111 ThP 159 TP 067 TP 067 WP 281
Browne, Richard	MP 530 TP 107 TP 723 TP 724 MP 052 MP 578 MP 578 MP 03:30 MP 708 E am 08:30 WP 080 WP 313 MP 330 MP 040 A am 09:30 ThP 111 ThP 259 TP 067 TP 492 WP 281 WP 300
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30WP 080WP 313WP 310MP 340 A am 09:30ThP 111ThP 259TP 492TP 492WP 281WP 281WP 300 G am 09:10
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578ThP 383 A pm 03:30 E am 09:10MP 708 E am 08:30MP 303MP 304MP 313MP 340MP 340MP 040TP 111ThP 259TP 067TP 492WP 281WP 281WP 300 G am 09:10WP 496
Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718 MP 052 MP 578 ThP 383 MP 708 E am 08:30 MP 080 WP 313 MP 330 MP 040 A am 09:30 TP 111 ThP 259 TP 067 TP 492 WP 281 WP 303 WP 303 WP 303 TP 492 WP 303 TP 492 WP 303 TP 492 WP 303 WP 496 WP 496 WP 297
Browne, Richard	MP 530 TP 107 TP 723 TP 724 MP 052 MP 578 MP 578 MP 03:30 E am 09:10 MP 708 E am 08:30 WP 080 WP 313 MP 330 MP 040 A am 09:30 ThP 111 ThP 259 TP 967 TP 492 WP 281 WP 300 G am 09:10 WP 496 WP 496 WP 297 MP 300 MP 409
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578MP 578MP 03:30MP 708 E am 09:10MP 300MP 300MP 313MP 040 A am 09:30ThP 111ThP 259TP 492WP 300 G am 09:10WP 496WP 287WP 287WP 300 G am 09:10WP 496WP 297MP 300MP 496WP 297MP 300MP 496
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578MP 578MP 578MP 03:30MP 300MP 300MP 313MP 313MP 040 A am 09:30ThP 111ThP 259TP 492WP 300 G am 09:10WP 397WP 397MP 496WP 297MP 300 G am 09:10WP 496
Browne, Richard	MP 530 TP 107 TP 723 TP 724 ThP 718 MP 052 MP 578 ThP 383 A pm 03:30 E am 08:30 MP 708 E am 08:30 MP 313 MP 330 MP 040 A am 09:30 TP 111 ThP 259 TP 067 TP 492 WP 281 WP 300 G am 09:10 WP 496 WP 297 MP 300 MP 409 MP 220 MP 220 TP 627
Browne, Richard	MP 530TP 107TP 723TP 724ThP 718MP 052MP 578MP 578MP 330 E am 08:30MP 708 E am 08:30MP 313MP 330MP 340 A am 09:30ThP 111ThP 259YP 281WP 380 G am 09:10WP 496WP 496WP 496WP 497MP 300MP 498WP 498WP 498WP 498WP 297MP 300MP 498WP 498WP 297MP 300MP 498MP 297MP 300MP 498MP 548
Browne, Richard	MP 530TP 107TP 723TP 724MP 052MP 578MP 578MP 578MP 0330MP 708 E am 08:30WP 080WP 313MP 310MP 310

Brzezinski, Jennifer	
	VVP 506
Bu, Jiexun	ThP 196
Bu, Jiexun	
Bu, Yahao	
Bubas, Amanda	ThP 185
Bubas, Amanda	
Bubas, Amanda	
Bubis, Julia	
Buchan, Zachary	WP 535
Buchberger, Amanda	WP 698
Buchberger, Amanda	
Buchberger, Amanda	WP 325
Buchberger, Amanda	
Buchberger, Amanda	
Buchberger, Amanda	
Bucher, Steven	WP 585
Buchholz, Kerry	ThP 555
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Buckenmaier, Stephan	
Buckley, Kyle	MD 204
Duckley, Nyle	
Buckley, Mike	. MOE am 09:30
Budayeva, HannaBudelier, Melissa	TOE am 09:30
Budelier, Melissa	ThOC am 09:50
Budelier, Melissa	ThOE pm 02:50
Budnik, Bogdan	iviF / U0
Buen, Zachary	1P 263
Bueno, Carolina	1P 452
Buffa, Radovan	WP 609
Bugrova, Anna	MP 112
Bugrova, Anna	
Bugrova, Anna	
Dubino ahi Catalia	VF 390
Buhimschi, Catalin	INP 119
Buhimschi, Catalin	
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Bui , Huy	
Dui Huy	ThD 616
Bui, Huy Bukhari, Tallat	
Buknari, ialiat	VVP 635
Bukhsianidze, Maia	
Bukowski, Nick	MP 265
Bukowski, Nick	MP 213
Bulau, Patrick	TP 500
Bulter John	11 000
Bulter, John	ThD EGE
Bults, Peter	MP 520
	MP 520
Bults, PeterBults, Peter	MP 520 TP 065
Bults, Peter	MP 520 TP 065 TP 329
Bults, Peter	MP 520 TP 065 TP 329 ThP 316
Bults, Peter	MP 520 TP 065 TP 329 ThP 316
Bults, Peter	MP 520 TP 065 TP 329 ThP 316 ThP 296
Bults, Peter	MP 520TP 065ThP 329ThP 296ThP 302TOF pm 04:10
Bults, Peter	MP 520TP 065ThP 329ThP 296ThP 302TOF pm 04:10
Bults, Peter	MP 520TP 065Th 329ThP 316ThP 296ThP 302TOF pm 04:10
Bults, Peter	MP 520 TP 065 TP 329 ThP 316 ThP 296 TOF pm 04:10 MP 621
Bults, Peter	MP 520 TP 065 TP 329 ThP 316 ThP 296 ThP 302 ThP 302 TOF pm 04:10 MP 621 TP 069
Bults, Peter	MP 520 TP 065 TP 316 ThP 316 ThP 302 ThP 302 ThP 302 TOF pm 04:10 MP 621 MP 626 MP 646
Bults, Peter	MP 520 TP 065 TP 316 ThP 316 ThP 302 ThP 302 TOF pm 04:10 MP 621 TP 069 WP 646 ThP 093
Bults, Peter	MP 520TP 065TP 319ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 646ThP 093WP 653
Bults, Peter	MP 520TP 065TP 319ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 646ThP 093WP 653
Bults, Peter	MP 520TP 065TP 329ThP 316ThP 296ThP 302TOF pm 04:10MP 621TP 069WP 640ThP 093WP 653MP 055MP 428
Bults, Peter	MP 520TP 065TP 329ThP 316ThP 296ThP 302TOF pm 04:10MP 621TP 069WP 646ThP 093WP 653MP 055MP 428WP 329
Bults, Peter. Bults, Peter. Bults, Peter. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunk, David M. Bunkenborg, Jakob. Bunkenborg, Jakob. Bunse, Christian. Buonarati, Michael Burant, Brittney. Burant, Charles. Buranti, Martin.	MP 520 TP 065 TP 329 ThP 316 ThP 302 ThP 302 ThP 302 TOF pm 04:10 MP 621 TP 069 WP 646 ThP 093 WP 653 MP 055 MP 429 WP 476
Bults, Peter	MP 520 TP 065 TP 316 ThP 316 ThP 316 ThP 302 TOF pm 04:10 MP 621 MP 646 ThP 069 WP 646 MP 055 MP 428 WP 329 WP 476 TP 326
Bults, Peter	MP 520TP 065TP 316Th 316Th 296Th 302ToF pm 04:10MP 621TP 069WP 666ThP 093WP 653MP 055MP 428WP 329WP 476TP 326TP 533
Bults, Peter	MP 520TP 065TP 316ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 055MP 428WP 329WP 478TP 326TP 533MP 046
Bults, Peter	MP 520TP 065TP 316ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 055MP 428WP 329WP 478TP 326TP 533MP 046
Bults, Peter	MP 520TP 065TP 316ThP 316ThP 390ThP 302TOF pm 04:10MP 621TP 069WP 646ThP 093WP 653MP 055MP 428WP 329WP 476TP 533MP 046
Bults, Peter. Bults, Peter. Bults, Peter. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunch, Josephine. Bunk, David M. Bunkenborg, Jakob. Bunkenborg, Jakob. Bunkenborg, Jakob. Bunse, Christian. Buonarati, Michael. Burant, Brittney. Burant, Charles. Burant, Charles. Buratti, Martin. Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdess, Karl. Burgess, Karl.	MP 520 TP 065 TP 329 ThP 316 ThP 296 ThP 302 ThP 302 TOF pm 04:10 MP 621 TP 069 WP 646 ThP 093 WP 653 MP 045 MP 425 MP 426 TP 505 MP 476
Bults, Peter Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Burant, Martin Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burgess, Karl Burgett, Anthony Burke, Adam	MP 520 TP 065 TP 316 ThP 316 ThP 302 ThP 302 ThP 302 TOF pm 04:10 MP 621 TP 069 WP 646 ThP 093 WP 653 MP 045 MP 476 TP 326 TP 503 MP 046 TP 505 WP 473
Bults, Peter	MP 520TP 365TP 316TP 329TP 302TP 980TP 906TP 619MP 621TP 069WP 653MP 055MP 428WP 329WP 476TP 326TP 533MP 046TP 533MP 046TP 533MP 046TP 573MP 319
Bults, Peter	MP 520TP 065TP 316TP 329TP 390TP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 428WP 329WP 476TP 336MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 533MP 326TP 533MP 345TP 547TOF pm 02:30MP 319TP 253
Bults, Peter Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burgess, Karl Burgess, Karl Burgett, Anthony Burke, Adam Burke, Meghan Burke, Nicole	MP 520TP 065TP 316ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 055MP 428WP 329WP 473TP 505MP 046TP 505MP 046TP 505MP 473TOF pm 02:30MP 319TP 253TOH am 09:50
Bults, Peter Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burgess, Karl Burgess, Karl Burgett, Anthony Burke, Adam Burke, Meghan Burke, Nicole	MP 520TP 065TP 316ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 055MP 428WP 329WP 473TP 505MP 046TP 505MP 046TP 505MP 473TOF pm 02:30MP 319TP 253TOH am 09:50
Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna	MP 520
Bults, Peter Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna Burke, Ricole Burkert, Kathryn Burkhardt, Brant	MP 520
Bults, Peter	MP 520 TP 065 TP 316 ThP 316 ThP 316 ThP 302 ToF pm 04:10 MP 621 TP 069 WP 646 ThP 093 WP 653 MP 055 MP 428 WP 329 WP 476 TP 533 MP 046 TP 533 MP 046 TP 533 TOF pm 02:30 MP 319 TP 253 TOH am 09:50 ThP 108 ThP 697
Bults, Peter	MP 520TP 306TP 316TP 320TP 316TP 320TP 302TOF pm 04:10MP 621TP 069WP 663MP 055MP 428WP 329WP 476TP 336TP 533MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 533TP 573TOF pm 02:30MP 319TP 253TOH am 09:50ThP 108ThP 697TP 613WOF am 10:10
Bults, Peter	MP 520TP 065TP 316TP 316Th 316Th 296Th 302ThP 302ToF pm 04:10MP 621TP 069WP 653MP 055MP 428WP 329WP 476TP 326TP 533MP 046TP 545WP 473TOF pm 02:30MP 319TP 545TOF pm 02:30ThP 108ThP 108ThP 613WOF am 10:10TOE pm 03:10
Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Adam Burke, Adam Burke, Adam Burke, Micole Burke, Nicole Burkert, Kathryn Burkhardt, Brant Burklingame, Alma Burlingame, Alma Burmølle, Mette	MP 520
Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Buratti, Martin Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Joanna Burdette, Adam Burke, Adam Burke, Adam Burke, Micole Burke, Nicole Burkert, Kathryn Burkhardt, Brant Burklingame, Alma Burlingame, Alma Burmølle, Mette	MP 520
Bults, Peter Bults, Peter Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunch, Josephine Bunk, David M Bunkenborg, Jakob Bunkenborg, Jakob Bunse, Christian Buonarati, Michael Burant, Brittney Burant, Charles Burant, Charles Burant, Charles Burant, Charles Burant, Anthony Burdette, Joanna Burdette, Nicole Burkert, Kathryn Burke, Nicole Burkert, Kathryn Burkhardt, Brant Burkin, Heather Burleigh, Robert Burlingame, Alma Burmølle, Mette Burney, Richard	MP 520
Bults, Peter. Bults, Peter. Bunch, Josephine. Bunk, David M. Bunkenborg, Jakob. Bunkenborg, Jakob. Bunse, Christian. Buonarati, Michael. Burant, Brittney. Burant, Charles. Burant, Charles. Burant, Charles. Buratti, Martin. Burdette, Joanna. Burdette, Adam. Burse, Karl. Burse, Nicole Burker, Kathryn. Burkert, Kathryn. Burkhardt, Brant. Burklingame, Alma. Burlingame, Alma. Burmelle, Mette. Burnum-Johnson, Kristin.	MP 520 TP 065 TP 316 Th 296 Th 316 ThP 302 ThP 302 ThP 302 ToF pm 04:10 MP 621 TP 069 WP 646 ThP 093 WP 653 MP 045 MP 476 TP 326 TP 503 MP 046 TP 505 WP 473 TOF pm 02:30 MP 319 TP 253 TOH am 09:50 ThP 108 ThP 697 TP 613 WOF am 10:10 TOE pm 03:10 MP 512 TP 602 MP 283
Bults, Peter	MP 520
Bults, Peter. Bults, Peter. Bunch, Josephine. Bunk, David M. Bunkenborg, Jakob. Bunkenborg, Jakob. Bunse, Christian. Buonarati, Michael. Burant, Brittney. Burant, Charles. Burant, Charles. Burant, Charles. Buratti, Martin. Burdette, Joanna. Burdette, Adam. Burse, Karl. Burse, Nicole Burker, Kathryn. Burkert, Kathryn. Burkhardt, Brant. Burklingame, Alma. Burlingame, Alma. Burmelle, Mette. Burnum-Johnson, Kristin.	MP 520TP 065TP 316TP 320TP 330TP 390ThP 316ThP 302TOF pm 04:10MP 621TP 069WP 653MP 055MP 428WP 329WP 476TP 330MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 533MP 046TP 503MP 319TP 57TOF pm 02:30MP 319TP 613WOF am 10:10TOE pm 03:10TP 612TP 613WP 512TP 613WOF am 10:10TOE pm 03:10TP 339

Burt, Oliver	TOD 00:40
B. A. J. L.	
Burton, Lyle	
Burton, Richard	
Burton, Shawn	
Burton, Shawn	
Burton, Tristesse	MP 144
Burykina, Anna	TP 251
Busch, Florian	.ThOE am 09:50
Busch, Florian	ThOG pm 04:10
Busch, Michael	
Busch, Michelle	
Bush, Andrew	
Bush, David	
Bush, Matthew	
Bush, Matthew	
Bushman, Wade	
Butt, Craig	
Butt, Craig	
Butt, Craig	
Buxton, lain	
Buzescu, Adela	
Byeon, Seul Kee	
Byeon, Seul Kee	TP 477
Byer, Jonathan	ThP 239
Byer, Jonathan	MOD pm 02:30
Byers, Christopher	TP 231
Byers, Christopher	MP 715
Byers, Susan	
Byfield, Gary	
Byrd, Jade	
Byrne, Bernadette	
Byrne II, Jerry	
Byrne II, Jerry	
Byrnes, Laura	
Byrum, Stephanie	
Byrum, Stephanie	
Bythell, Benjamin	
Bythell, Benjamin	
Bythell, Benjamin	
	IF ZOU
Bythell, Benjamin	.ThOD pm 04:10
Byun, Jaeman	.ThOD pm 04:10 MP 475
Byun, JaemanByun, Jaeman	.ThOD pm 04:10 MP 475 WP 474
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael	.ThOD pm 04:10 MP 475 WP 474 MP 180
Byun, Jaeman	MP 475 WP 474 MP 180 MP 181
Byun, Jaeman	.ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423
Byun, Jaeman	.ThOD pm 04:10
Byun, Jaeman	
Byun, Jaeman	.ThOD pm 04:10
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabovska, Baiba Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Cahill, John Cai, Chengyuan	Thod pm 04:10
Byun, Jaeman	.ThOD pm 04:10
Byun, Jaeman	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 Th 900 TP 390 TP 450 TP 450 Th 9064 MP 393 TP 036 Th 280 Th 280 Th 188 TP 189 TOF am 10:10 MP 425 Th 594 ThOD am 10:40
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cafiarelli, John Cai, Chengyuan Cai, Chengyuan Cai, Caj, Renzhi Cai, Tanxi Cai, Tanxi Cai, Weiling Cai, Wenxuan	ThOD pm 04:10MP 475MP 474MP 180MP 181TP 423WP 618TOB pm 03:10TP 186Th 900TP 390TP 450TP 450TP 906TP 906TP 906TP 189TP 189TP 189TOF am 10:10MP 425Th 594 ThOD am 10:10MP 657
Byun, Jaeman	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 188 TP 189 TOF am 10:10 MP 455 ThP 594 ThOD am 10:10 MP 657 MP 657
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cafiarelli, John Cai, Chengyuan Cai, Chengyuan Cai, Caj, Renzhi Cai, Tanxi Cai, Tanxi Cai, Weiling Cai, Wenxuan	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 188 TP 189 TOF am 10:10 MP 455 ThP 594 ThOD am 10:10 MP 657 MP 657
Byun, Jaeman	.ThOD pm 04:10
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Caj, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Tanxi Cai, Wenxuan	Thod pm 04:10 MP 475
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cafi, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Welling Cai, Welling Cai, Welling Cai, Wenxuan	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 188 TP 189 TOF am 10:10 MP 425 ThP 594 ThOD am 10:10 MP 657 TP 586 TP 680 TP 680 TP 672 WP 713 ThOC pm 02:30
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cafi, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Welling Cai, Welling Cai, Welling Cai, Wenxuan	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 188 TP 189 TOF am 10:10 MP 425 ThP 594 ThOD am 10:10 MP 657 TP 586 TP 680 TP 680 TP 672 WP 713 ThOC pm 02:30
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Caj, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Tanxi Cai, Wenxuan	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 189 TOF am 10:10 MP 425 ThP 594 ThOD am 10:10 MP 657 TP 586 TP 660 TP 672 WP 713 ThOC pm 02:30 MP 252
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar. Cabruja, Isabel Cabruja, Isabel Cabruja, Isabel Caffarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cafili, John Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Wenxuan Cai, Yi-Hong	ThOD pm 04:10 MP 475 WP 474 MP 180 MP 181 TP 423 WP 618 TOB pm 03:10 TP 186 ThP 090 TP 390 TP 450 ThP 064 MP 393 TP 036 ThP 280 TP 189 TOF am 10:10 MP 452 ThP 594 ThOD am 10:10 MP 657 TP 586 TP 660 TP 672 WP 713 ThOC pm 02:30 MP 252 ThP 235
Byun, Jaeman	ThOD pm 04:10
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadruja, Isabel Caffarelli, Nicolas Caffarelli, Nicolas Cafiarelli, Nicolas Cai, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Tanxi Cai, Wenxuan Cai, Yi-Hong Cai, Zongwei	ThOD pm 04:10
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadrarelli, Nicolas Caffarelli, Nicolas Caffarelli, Nicolas Cai, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Tanxi Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Wenxuan Cai, Yi-Hong Cai, Zongwei Cai, Zongwei Cai, Zongwei	Thod pm 04:10 MP 475 MP 474 MP 180 MP 181 MP 618 TP 423 WP 618 TOB pm 03:10 TP 186 Th 900 TP 390 TP 450 TP 450 TP 450 TP 80 TP 188 TP 188 TP 188 TP 189 TOF am 10:10 MP 425 Th 594 ThOD am 10:10 MP 657 TP 586 TP 660 TP 660 TP 672 WP 713 ThOC pm 02:30 MP 252 ThP 372 TP 328 TP 372 TP 328 TP 372
Byun, Jaeman Byun, Jaeman Cabanzo, Rafael Cabanzo, Rafael Cabooter, Deirdre Cabovska, Baiba Cabrices, Oscar Cabruja, Isabel Cabruja, Isabel Cabruja, Isabel Cadruja, Isabel Cadruja, Isabel Caffarelli, Nicolas Caffarelli, Nicolas Cafiarelli, Nicolas Cai, Chengyuan Cai, Chengyuan Cai, Chengyuan Cai, Cai, Tanxi Cai, Tanxi Cai, Tanxi Cai, Wenxuan Cai, Yi-Hong Cai, Zongwei	ThOD pm 04:10MP 475MP 474MP 180MP 181TP 423WP 618TOB pm 03:10TP 186Th 900TP 390TP 450Th 964MP 393TP 036Th 280Th 188TP 189TOF am 10:10MP 425Th 594Th 594Th 660TP 586TP 672TP 672TP 672TP 586TP 672TP 328TP 271TP 235TP 271TP 496

Cajka, Tomas		ThP 446
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Cala, Mónica		
Calciano, Steven		
Calderisi, Giovanni		
Caldwell, Anna		
Caldwell, Melissa		
Caleo, Matteo Calero-Rubio, Cesar		
Callaway, Heather		
Calleja, Monsterrat	MOG	am 08:30
Calleja, Monsterrat		
Callewaert, Chris		TP 520
Calligaris, David	ThOF	pm 04:10
Camacho, Ines	WOH	am 10:10
Camacho, Raul		WP 463
Camargo, Ana Carolina		
Cameron, Kimberly		WP 699
Cameron, Simon Cameron, Simon	TOF	VVP 502
Cammarata, Michael	10F	MD 500
Cammarata, Michael		
Campagna, Shawn		
Campagna, Shawn		
Campbell, Amy		TP 037
Campbell, Andrew		
Campbell, J. Larry		MP 228
Campbell, J. Larry		TP 073
Campbell, J. Larry		WP 415
Campbell, J. Larry		ThP 449
Campbell, J. Larry		WP 483
Campbell, J. Larry		
Campbell, Lia		I nP 490
Campbell, MatthewCampbell, Matthew	ThOD	IIIP 170
Campbell, Matthew	TOF	am 00:10
Campbell, Scott	IOL	TP 702
Campbell, William		
Campisi, Judith		
Campuzano, lain		MP 023
Campuzano, lain Campuzano, lain D G	ThOC	MP 023 am 09:10
Campuzano, lain Campuzano, lain D G Campuzano, lain D G	ThOC	MP 023 am 09:10 pm 02:30
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan	ThOC	MP 023 am 09:10 pm 02:30 MP 572
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge	ThOC ThOB	MP 023 am 09:10 pm 02:30 MP 572 ThP 592
Campuzano, lain	ThOC ThOB	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30
Campuzano, lain	ThOC ThOB	am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 538
Campuzano, lain	ThOC ThOB	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 535 ThP 064
Campuzano, lain	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 535 ThP 064 MP 020
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Candish, Esme Canet, Isabelle	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 535 ThP 064 MP 020 pm 02:50
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 535 ThP 064 MP 020 pm 02:50
Campuzano, lain	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30 MP 572 ThP 592 am 08:30 ThP 064 MP 020 pm 02:50 TP 474 WP 413
Campuzano, lain	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30MP 572ThP 592 am 08:30ThP 064MP 020 pm 02:50TP 474WP 413 am 08:30
Campuzano, lain	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30MP 572ThP 592 am 08:30ThP 064MP 020 pm 02:50TP 474WP 413 am 08:30
Campuzano, lain	ThOC ThOB WOG MOD	MP 023 am 09:11 pm 02:33MP 572ThP 592ThP 593ThP 064MP 020 pm 02:56TP 474WP 413ThP 484 am 08:33
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Cannon, Joe Cano, Tony Canon, Francis Canterbury, Jesse	ThOC ThOB WOG .MOD	MP 023 am 09:10 pm 02:30MP 572ThP 536 am 08:30ThP 536ThP 06MP 020 pm 02:50TP 474WP 413ThP 444 am 08:30TP 084 am 08:30TP 087
Campuzano, lain	ThOC ThOB WOG .MOD	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 538ThP 064MP 02:50 pm 02:50TP 474 am 08:30TP 084 am 08:30TP 087 am 08:30TP 087
Campuzano, lain	ThOC ThOB WOG .MOD TOE	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 538ThP 064MP 02:50 pm 02:50TP 474 am 08:30TP 08- am 08:30TP 08- am 08:30TP 362 pm 03:10
Campuzano, lain	ThOC ThOB WOG MOD TOE	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 538ThP 064MP 02:50TP 474Th 444 am 08:30TP 084
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Canez, Carlos Canon, Joe Cano, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse	ThOC ThOB WOGTOE WOH	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 533ThP 064MP 020 pm 02:55TP 474WP 413Th 444 am 08:30TP 703TP 084 am 08:30TP 703Th 362 pm 03:10 am 10:11ThP 256
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Canon, Tony Cano, Tony Canon, Francis Canterbury, Jesse Canterlury, Jesse	WOG TOE WOD	MP 023 am 09:10 pm 02:30MP 572ThP 536 am 08:30ThP 536ThP 064MP 020 pm 02:55TP 474WP 413ThP 444 am 08:30TP 084 am 08:31TP 084 am 08:31TP 084 am 08:31TP 105ThP 362 pm 03:11 am 10:10ThP 362ThP 626ThP 626
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Canez, Carlos Canon, Tony Canon, Francis Canterbury, Jesse Canterli, Pamela Canty, John	ThOC ThOB WOG MOD	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 536ThP 064MP 020 pm 02:50TP 474WP 413ThP 362 pm 03:10 am 10:10ThP 250ThP 250ThP 664
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Canez, Carlos Canon, Top Canon, Top Canon, Francis Canterbury, Jesse	ThOC ThOB WOG	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 538ThP 064MP 020 pm 02:50 pm 02:50TP 474WP 413ThP 448 am 08:30TP 084 am 08:30TP 362 pm 03:10 am 10:10ThP 250ThP 666ThP 666
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canez, Carlos Canez, Carlos Cannon, Joe Canon, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterli, Pamela Cao, Fan. Cao, Fan.	WOGTOE WOH	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 072MP 072MP 072MP 084ThP 444 am 08:30TP 703ThP 362 pm 03:10 am 10:10ThP 250ThP 626ThP 666WP 362
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canez, Carlos Canez, Carlos Cannon, Joe Cannon, Joe Canno, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterli, Pamela Canty, John Cano, Fan. Cao, Fan. Cao, Fan. Cao, Huachuan	WOGTOE WOH	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 072MP 072MP 072MP 084ThP 444 am 08:30TP 084 am 08:30TP 703ThP 362 pm 03:10 am 10:10ThP 626ThP 626ThP 626ThP 627MP 362ThP 626ThP 626ThP 627ThP 626ThP 627ThP 500ThP 500TP 500TP 500
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Canon, Joe Canon, Tony Canon, Tony Canon, Joe Canterbury, Jesse Canterll, Pamela Canty, John Cao, Fan. Cao, Fan. Cao, Huachuan Cao, Jie	WOGTOE	MP 023 am 09:10 pm 02:30MP 572 am 08:30ThP 533ThP 636MP 020 pm 02:55TP 474WP 413ThP 444 am 08:30TP 703ThP 362 pm 03:10 am 10:10ThP 626ThP 666WP 362TP 10:10TP 10:10TP 10:10TP 10:10
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canet, Isabelle Canez, Carlos Canez, Carlos Canez, Carlos Canon, Tony Canon, Francis Canterbury, Jesse Canterb	ThOC ThOB WOG TOE WOH	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 503ThP 064MP 020 pm 02:50TP 474WP 413ThP 362 pm 03:10 am 10:10ThP 250ThP 250ThP 666WP 362TP 100TP 100TP 100TP 100TP 100TP 100TP 100TP 100TP 264TP 267TP 267
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canez, Carlos Canez, Carlos Canez, Carlos Canon, Joe Canon, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterll, Pamela Caon, Fan. Cao, Fan. Cao, Fan. Cao, Jie Cao, Jie Cao, Jie Cao, Junxi Cao, Qinchen Cao, Qinchen Cao, Caning Mining Mining Cao, Qinchen Cao, Caning Mining Mining Cao, Qinchen Cao, Qininingwen	ThOC ThOB WOGTOE WOH WODTOG	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 072MP 072MP 072MP 082TP 474WP 413ThP 444 am 08:30TP 703ThP 361 am 10:10ThP 362ThP 626WP 363TP 500ThP 500ThP 626ThP 626MP 500TP 100TP 250TP 100TP 264TP 270TP 270TP 270TP 270
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Cannon, Joe Canon, Francis Canterbury, Jesse Canterbur	ThOC ThOB WOGTOE WOH	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 533ThP 064MP 072MP 072MP 072MP 082TP 474WP 413ThP 444 am 08:30TP 703TP 703ThP 362 pm 03:10ThP 626ThP 662ThP 662ThP 662TP 503TP 703ThP 362ThP 624ThP 625ThP 626ThP 626THP 636TP 703TP 102TP 276TP 276TP 276TP 276TP 276TP 276TP 548
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Canon, Tony Canon, Tony Canon, Tony Canon, Joe Canterbury, Jesse Canterly, J	WOGTOE	MP 023 am 09:10 pm 02:30MP 572 am 08:30ThP 593 am 08:30ThP 533ThP 064MP 020 pm 02:55TP 474WP 413ThP 444 am 08:30TP 703ThP 363 pm 03:10 am 10:10ThP 364ThP 365ThP 664WP 363TP 703TP 100TP 100
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Canon, Tony Canon, Trancis Canterbury, Jesse	ThOC ThOB WOG TOE WOH	MP 023 am 09:10 pm 02:30MP 572 am 08:30ThP 533ThP 064MP 107MP 1
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Can, Nisan Can, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Canon, Tony Cano, Tony Cano, Francis Canterbury, Jesse Canterbury, Je	ThOC ThOB WOGTOE WOHTOG	MP 023 am 09:10 pm 02:30MP 572ThP 593 am 08:30ThP 536ThP 66MP 020 pm 02:50TP 474WP 413ThP 444 am 08:30TP 703ThP 362 pm 03:10 am 10:10ThP 260ThP 664WP 362TP 107ThP 660TP 500TP 107ThP 500TP 107ThP 500TP 107ThP 500TP 107ThP 500TP 107ThP 500TP 277WP 383ThP 544ThP 545ThP 545
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canez, Carlos Canez, Carlos Cannon, Joe Canno, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterll, Pamela Canty, John Cao, Fan Cao, Fan Cao, Jie Cao, Jie Cao, Jie Cao, Jie Cao, Jie Cao, Qinjingwen Cao, Wei-qian Cao, Wei-qian Cao, Wei-qian Cao, Wenbo Cao, Vend	Thoc Thob Wog Toe Woh Tog	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 173WP 413ThP 444 am 08:30TP 064TP 362 pm 02:50TP 474WP 415ThP 456ThP 626ThP 626ThP 626ThP 626ThP 636TP 700ThP 362 pm 03:10 am 10:10ThP 250ThP 636ThP 646ThP 540ThP 540ThP 545ThP 041WP 383ThP 045ThP 045ThP 045ThP 045ThP 045ThP 045
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Canales, Alejandra Cance, Mark Candish, Esme Canez, Carlos Canez, Carlos Cannon, Joe Canno, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterll, Pamela Canty, John Cao, Fan Cao, Fan Cao, Jie Cao, Jie Cao, Jie Cao, Jie Cao, Jie Cao, Qinjingwen Cao, Wei-qian Cao, Wei-qian Cao, Wei-qian Cao, Wenbo Cao, Vend	Thoc Thob Wog Toe Woh Tog	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 173WP 413ThP 444 am 08:30TP 064TP 362 pm 02:50TP 474WP 415ThP 456ThP 626ThP 626ThP 626ThP 626ThP 636TP 700ThP 362 pm 03:10 am 10:10ThP 250ThP 636ThP 646ThP 540ThP 540ThP 545ThP 041WP 383ThP 045ThP 045ThP 045ThP 045ThP 045ThP 045
Campuzano, lain Campuzano, lain D G Campuzano, lain D G Cann, Nisan Can, Ozge Canagaratna, Manjula Cance, Mark Canet, Isabelle Canez, Carlos Canez, Carlos Cannon, Joe Cano, Tony Canon, Francis Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterly, Jesse Canterly, Jesse Canterly, Jesse Canterbury, Jesse Canterly, Jesse C	WOGTOETOGTOG	MP 023 am 09:10 pm 02:30MP 573ThP 593 am 08:30ThP 533ThP 064MP 020 pm 02:56ThP 474WP 413ThP 444 am 08:30TP 703ThP 363 pm 03:10 am 10:11ThP 256ThP 664WP 437TP 084TP 085TP 100TP 277WP 483TP 276TP 276TP 276TP 276TP 277TP 264TP 276TP 277TP 505THP 065ThP 065ThP 055ThP 055ThP 055ThP 057
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Cape, Stephanie	ThP 029
Capodanno, Eric	
Capoualillo, Lilc	TF 207
Caporoso, Joel	IP 507
Cappellini, Enrico	WP 566
Cappiello, Achille	TP 161
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Caprioli, Joseph	MP 294
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Caprioli, Richard	MP 303
Caprioli, Richard	MP 305
Caprioli, Richard	IVIP 300
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Caprioli, Richard	ThP 272
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Caprioli, Richard	WP 295
Caprioli, Richard	WP 303
Caprioli, Richard	
Caprioli, Richard	
Caprioli, Richard	ThP 428
Caprioli, Richard	TP 446
Caprioli, Nichard	MOE nm 02:40
Caprioli, Richard	vvOF pm 03.10
Caprioli, Richard	WOD pm 03:50
Carapito, Christine	TP 142
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Carapito, Christine	
Carasek, Eduardo	MP 464
Carayol, Jérôme	MP 040
Carbone, David	
Cardasis, Helene	
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Cardin, Daniel	
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Cardoso Alves, Tiago	ThP 246
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Cardozo, Karina Cardozo, Karina	MP 501 MP 044
Cardozo, Karina Cardozo, Karina Carette, Jan	MP 501 MP 044 ThP 669
Cardozo, Karina Cardozo, Karina Carette, Jan	MP 501 MP 044 ThP 669
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric	MP 501 MP 044 ThP 669 TP 042
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric	
Cardozo, Karina	
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric	MP 501MP 044ThP 669TP 042TP 059ThP 066
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric	MP 501MP 044ThP 669TP 042TP 059ThP 066
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric	MP 501
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric	MP 501
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric	MP 501 MP 044 ThP 669 TP 042 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Doug Carlton, Victoria	MP 501 MP 044 ThP 669 TP 042 TP 059 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Desc Carlson, Doug Carlton, Victoria Carlton, Jr., Doug	MP 501MP 044
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Doug Carlton, Victoria Carlton Jr., Doug Carlton Jr., Doug	MP 501MP 044MP 044MP 049TP 049TP 059MP 331WP 660ThP 577ThP 578MP 691MOD pm 03:10MP 675WP 484
Cardozo, Karina Cardozo, Karina Carette, Jan Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Eric Carlson, Doug Carlton, Victoria Carlton Jr., Doug Carlton Jr., Doug	MP 501MP 044MP 044MP 049TP 049TP 059MP 331WP 660ThP 577ThP 578MP 691MOD pm 03:10MP 675WP 484
Cardozo, Karina	MP 501 MP 044 MP 044 ThP 669 TP 059 MP 331 WP 660 MP 331 MP 691 MOD pm 03:10 MP 675 WP 484 WP 062
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 578 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 056 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 484 WP 062 THO 4m 09:50 TP 285
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 056 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 484 WP 062 THO 4m 09:50 TP 285
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 056 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThO 4am 09:50 TP 285 MP 122
Cardozo, Karina	MP 501MP 044MP 049MP 049MP 049MP 059MP 331WP 660MP 577MP 577MP 691MOD pm 03:10MP 675WP 484WP 062ThOH am 09:50TP 285MP 122MP 122
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 MP 331 WP 660 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 TP 285 MP 122 ThP 588
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 122 ThP 562 WOA am 09:10 MP 527
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 122 ThP 562 WOA am 09:10 MP 527
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 WP 484 WP 062 ThO H am 09:50 MP 122 ThP 562 WOA am 09:10 MP 527 MOA am 09:50
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 527 MOA am 09:10 WP 545
Cardozo, Karina	MP 501 MP 044 The 669 TP 042 TP 056 MP 331 WP 660 The 577 The 588 MP 391 MOD pm 03:10 The 669 MP 675 WP 484 WP 062 ThO 4 am 09:50 MP 527 MOA am 09:50 WP 545 WP 561
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 675 WP 484 WP 062 ThOH am 09:50 TP 285 MP 122 ThP 527 MOA am 09:50 WP 545 WP 545 TOD am 08:30
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 675 WP 484 WP 062 ThOH am 09:50 TP 285 MP 122 ThP 527 MOA am 09:50 WP 545 WP 545 TOD am 08:30
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 122 ThP 562 WOA am 09:10 MP 527 MOA am 09:50 WP 545 WP 545 MP 545 TOD am 08:30 ThP 488
Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 527 MOA am 09:50 WP 545 WP 545 MP 545 TD am 08:30 ThP 485 TP 552
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Cardozo, Karina	MP 501 MP 044 The 669 TP 042 TP 0569 The 9660 MP 331 WP 660 The 577 The 588 MP 691 MOD pm 03:10 The 669 MP 675 WP 484 WP 062 ThO 4 am 09:50 MP 527 MOA am 09:10 MP 545 WP 545 TOD am 08:30 The 485 TP 285 MP 122 The 562 WO 4 am 09:10 MP 527 MOA am 09:10 MP 545 MP 552 MP 563 TOD am 08:30 The 485 TP 552 WP 123 Tho H pm 04:10
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Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 WP 062 ThOH am 09:50 MP 225 MP 122 ThP 561 WOA am 09:50 WP 545 WP 545 WP 545 WP 123 ThP 4885 TP 552 WP 123 ThP 483 TP 552 WP 123 ThOH pm 04:10 MOE am 09:10
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Cardozo, Karina	MP 501 MP 044 ThP 669 TP 042 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 ThP 669 MP 675 WP 484 WP 062 ThOH am 09:50 MP 528 MP 528 MP 528 TP 569 MP 545 WP 545 WP 545 WP 545 MP 122 ThP 562 ThP 562 ThP 562 WOA am 09:10 MP 528 MP 129 ThP 562 ThP 690 TP 690 TP 690 TP 690 TP 690 TP 690
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Cardozo, Karina	MP 501 MP 044 ThP 669 TP 049 TP 059 ThP 066 MP 331 WP 660 ThP 577 ThP 588 MP 691 MOD pm 03:10 MP 675 WP 484 WP 062 ThOH am 09:50 MP 527 MOA am 09:10 MP 545 WP 561 TOD am 08:30 ThP 485 TP 552 WP 123 ThOH pm 04:10 MOE am 09:10 MP 528 TP 690 TP 691 MP 528 TP 103 TP 691 MP 528
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Carruthers, Nicholas	MP 622
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Carter, Leanna	
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Castellanos, Anthony Tho	JE 2m UU∙3U
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Castellino, Stephen	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449MP 182MP 510
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449MP 182MP 510
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Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449MP 510MP 510WP 180WP 180
Castellanos-García, Laura	ThP 479 TP 497 TP 497 Fpm 04:10 Fp am 08:30
Castellanos-García, Laura	ThP 479 TP 497 TP 497 Fpm 04:10 Fp am 08:30 Fp am 08:30 MP 410 MP 449 MP 182 MP 510 MP 511 MP 180 MP 194 MP 194 MP 194 MP 194 MP 194 MP 194 MP 194 MP 194
Castellanos-García, Laura	ThP 479 TP 497 TP 497 DF pm 04:10 DF am 08:30WP 410MP 449MP 510MP 511WP 182WP 194WP 194WP 061 DE am 09:10MP 278
Castellanos-García, Laura	ThP 479TP 497 DF pm 04:10 DF am 08:30WP 410MP 449MP 182MP 510TP 511WP 180WP 061 DE am 09:10WP 278MP 278
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Castellanos-García, Laura	ThP 479 TP 497 TP 497 Fpm 04:10 Fpm 04:10 Fpm 08:30 WP 410 MP 449 MP 182 MP 510 TP 511 WP 180 WP 194 MP 278 TP 065 MP 370 WP 612
Castellanos-García, Laura	ThP 479 TP 497 TP 497 Fpm 04:10 Fpm 04:10 Fpm 08:30 WP 410 MP 449 MP 182 MP 510 TP 511 WP 180 WP 194 MP 278 TP 065 MP 370 WP 612
Castellanos-García, Laura	ThP 479 TP 497 TP 497 TP 497 Fpm 04:10 Ff am 08:30WP 410MP 449MP 510WP 180WP 180WP 180WP 180WP 061 DE am 09:10MP 278TP 065MP 370WP 612WP 612
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Castellanos-García, Laura	ThP 479 TP 497 TP 497 TP 497 TP 97 TP 08:30 TP 410 TP 410 TP 410 TP 511 TP 511 TP 511 TP 512 TP 065 MP 370 MP 612 Th 519 MP 292 MP 103
Castellanos-García, Laura	ThP 479 TP 497 TP 497 Fpm 04:10 Fpm 04:10 Fpm 08:30WP 410MP 449MP 182MP 511WP 184WP 194WP 061 DE am 09:10MP 278MP 370WP 612MP 292MP 103ThP 579
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Castellanos-García, Laura Castellino, Stephen Castellino, Stephen Castro-Perez, Jose Castro-Perez, Jose Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catharino, Rodrigo Catuson, Rodrigo Catuson, Rodrigo Catuson, Jason Causon, Jason Causon, Jason Causon, Jason Causon, Jason Causon, Jason Cacti, Fabiola Cecchi, Fabiola Cecchi, Fabiola Cecchi, Nadja Cech, Nadja	ThP 479 TP 497 TP 497 TP 497 Fpm 04:10 FF am 08:30WP 410MP 449MP 510WP 180WP 180WP 180WP 061 DE am 09:10MP 278TP 065MP 370WP 612MP 519WP 612MP 194WP 612MP 519WP 672MP 679MP 194WP 612MP 519WP 612MP 292MP 103MP 679MP 679TP 700WP 541
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Chalkley, Robert. MI Chalmers, Michael. Th Chalmers, Michael. Th Chalmers, Michael. W Chambers, Michael. W Chamberlain, Casey. W Chambers, Andrew. Th Chambers, Andrew. Th Chambers, Andrew. Th Chambers, Erin. W Chambers, Erin. TI Chambers, Matthew. Ti Chambers, Matthew. Ti Chambers, Watthew. Th Chambers, Watthew. Th Chambers, Watthew. Th Chan, Mark. Th Chan, Mark. Th Chan, Mark.	MP 341 ThP 202 ThP 207 WP 257 TP 527 WP 458 ThP 657 ThP 667 ThP 303 WP 256 WP 188 TP 183 A MP 658 A ThP 552 ThP 552 ThP 552 ThP 576 ThP 690 A MP 690	Chalkley, Robert. MP 3 Chalmers, Michael. ThP 2 Chalmers, Michael. ThP 2 Chalmers, Michael. WP 2 Chamberlain, Casey. TP 5 Chambers, Andrew ThP 6 Chambers, Andrew ThP 6 Chambers, Erin. WP 2 Chambers, Erin. TP 6 Chambers, Erin. TP 7 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Tina WP 1 Chambers, Tina MP 6 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Matthew TP 3 Chambers, Matthew TP 5 Chambers, Matthew TP 5 Chambers, Matthew TP 5 Chan, Horshand TP 5 Chan, Joyce TOB am 09 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2		
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Chalmers, Michael Thi Chalmers, Michael Wi Chamberlain, Casey Ti Chamberlain, Casey Wi Chambers, Andrew Thi Chambers, Erin Thi Chambers, Erin Thi Chambers, Erin Ti Chambers, Matthew Ti Chambers, Matthew Ti Chambers, Tina Wi Chambers, Matthew Ti Chambers, Matthew Ti Chambers, Matthew Ti Chambers, Matthew Thi Chan, Hongshan Ti Chan, Hongshan Ti Chan, Joyce TOB am Chan, Shan-An Ti Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Tak-Wah Dominic Wi <	ThP 207 WP 257 WP 257 WP 458 ThP 654 ThP 654 ThP 674 ThP 037 WP 250 TP 458 TP 362 TP 183 A MP 655 A ThP 252 ThP 578 ThP 690 TOB am 09:50 ThP 151 ThP 105 ThP 152 ThP 157 ThP 690 TOB am 09:50 ThP 157 ThP 1690 ThP 1690 ThP 1690 ThP 1690 ThP 1690 ThP 1690 ThP 361 ThP 361 ThP 361 ThP 361 ThP 361 ThP 361 ThP 458 ThOA pm 03:50 WOB am 10:10 ThP 647 ThP 647 ThP 647 ThP 648 ThP 649 ThP 549 ThP 480 ThP 372 ThP 490 ThP 373 ThP 374 ThP 490 ThP 593 ThP 374 ThP 490 ThP 593 ThP 374 ThP 490 ThP 375 ThP 490 ThP 374 ThP 374 ThP 375 ThP 490 ThP 375 ThP 490 ThP 376 ThP 376 ThP 377 ThP 490 ThP 377 T	Chalmers, Michael ThP 2 Chalmers, Michael WP 2 Chamberlain, Casey TP 5 Chamberlain, Casey WP 4 Chambers, Andrew ThP 6 Chambers, Andrew ThP 6 Chambers, Erin WP 2 Chambers, Erin WP 2 Chambers, Erin TP 6 Chambers, Erin WP 1 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Frin WP 1 Chambers, Matthew TP 3 Chambers, Matthew TP 1 Chambers, Matthew TP 1 Chambers, Matthew TP 1 Chambers, Matthew TP 1 Chambers, Matthew Th 2 Chan, Josen TP 5 Chan, Josen TD 8 Chan, Josen TD 8 Chan, Josen TD 8 Chan, Mark Th 9 Chan, Shan-An TP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 3 Chan, War <th< td=""><td>Chalkley, Robert</td><td> MP 341</td></th<>	Chalkley, Robert	MP 341
Chalmers, Michael WI Chamberlain, Casey TI Chamberlain, Casey TI Chambers, Andrew ThI Chambers, Andrew ThI Chambers, Erin WI Chambers, Erin WI Chambers, Erin TI Chambers, Matthew TI Chambers, Matthew TI Chambers, Matthew TI Chambers, Wein TI Chambers, Frin WI Chambers, Frin WI Chambers, Matthew TI Chambers, Matthew TI Chambers, Matthew TI Chambers, Matthew TI Chambers, Kevin TI Chambers, Mathew ThI Chan, Hongshan TI Chan, Joyce TOB am Chan, Joyce TOB am Chan, Mark ThI Chan, Shan-An TI Chan, Shan-An WI Chan, Shan-An WI Chan, War WI Ch		Chalmers, Michael WP 2 Chamberlain, Casey TP 5 Chamberlain, Casey WP 4 Chambers, Andrew ThP 6 Chambers, Andrew ThP 6 Chambers, Erin WP 2 Chambers, Erin WP 2 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Matthew TP 1 Chambers, Matthew TP 2 Chambers, Matthew ThP 2 Chan, Jose TOB am 09 Chan, Joyce TOB am 09 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An ThP 1 Chan, Shan-An WP 2 Chan, Wan WP 3 Chan, Wan WP 4 Chan, Ya-Sua WP 4 Chan,		
Chamberlain, Casey. Ti Chamberlain, Casey. Wi Chambers, Andrew. Thi Chambers, Andrew. Thi Chambers, Erin. Thi Chambers, Erin. Ti Chambers, Matthew. Ti Chambers, Matthew. Ti Chambers, Matthew. Ti Chambiss, Kevin. Ti Chambiss, Mathew. Th Chan, Hongshan. Ti Chan, Joyce. TOB am Chan, Shan-An. Ti <td>TP 527</td> <td>Chamberlain, Casey. TP 5 Chamberlain, Casey. WP 4 Chambers, Andrew. The 6 Chambers, Andrew. The 70 Chambers, Erin. The 70 Chambers, Erin. TP 4 Chambers, Matthew. TP 3 Chambers, Matthew. TP 4 Chambers, Matthew. TP 4 Chambers, Matthew. TP 5 Chambers, Matthew. TP 1 Chambers, Matthew. TP 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Mathew. The 3 Chan, Hongshan. The 3 Chan, Hongshan. The 3 Chan, Joyce. TOB am 09 Chan, Mark. The 1 Chan, Shan-An. The 3 Chan, Shan-An. The 3 Chan, Yi-Tsu. WP 6 Chan, War. MP 6</td> <td>Chalmers, Michael</td> <td>ThP 207</td>	TP 527	Chamberlain, Casey. TP 5 Chamberlain, Casey. WP 4 Chambers, Andrew. The 6 Chambers, Andrew. The 70 Chambers, Erin. The 70 Chambers, Erin. TP 4 Chambers, Matthew. TP 3 Chambers, Matthew. TP 4 Chambers, Matthew. TP 4 Chambers, Matthew. TP 5 Chambers, Matthew. TP 1 Chambers, Matthew. TP 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Matthew. The 2 Chambers, Mathew. The 3 Chan, Hongshan. The 3 Chan, Hongshan. The 3 Chan, Joyce. TOB am 09 Chan, Mark. The 1 Chan, Shan-An. The 3 Chan, Shan-An. The 3 Chan, Yi-Tsu. WP 6 Chan, War. MP 6	Chalmers, Michael	ThP 207
Chamberlain, Casey. Will Chambers, Andrew Thi Chambers, Andrew Thi Chambers, Erin. Thi Chambers, Erin. Will Chambers, Fina. Will Chambers, Matthew Ti Chambers, Tina. Will Chambers, Tina. Will Chambers, Matthew Thi Chamot-Rooke, Julia. Mil Chamot-Rooke, Julia. Thi Cham, Hongshan. Ti Chan, Hongshan. Ti Chan, Joanne. Thi Chan, Joyce. TOB am Chan, Shan-An. Thi Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Wan. Wil Chan, Shan-An. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wark. Thi		Chamberlain, Casey. WP 4 Chambers, Andrew ThP 6 Chambers, Andrew ThP 6 Chambers, Erin. ThP 6 Chambers, Erin. WP 2 Chambers, Erin. TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Tina WP 1 Chambers, Matthew TP 3 Chambers, Tina MP 6 Chambers, Matthew TP 3 Chambers, Tina MP 6 Chambers, Matthew TP 3 Chambers, Matthew TP 2 Chambers, Matthew ThP 2 Chambers, Matthew ThP 5 Chan, Hongshan TP 5 Chan, Hongshan TP 5 Chan, Joyce TOB am 09 Chan, Mark ThP 16 Chan, Shan-An TP 2 Chan, Shan-An TP 2 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2	Chalmers, Michael	WP 257
Chamberlain, Casey. Will Chambers, Andrew Thi Chambers, Andrew Thi Chambers, Erin. Thi Chambers, Erin. Will Chambers, Fina. Will Chambers, Matthew Ti Chambers, Tina. Will Chambers, Tina. Will Chambers, Matthew Thi Chamot-Rooke, Julia. Mil Chamot-Rooke, Julia. Thi Cham, Hongshan. Ti Chan, Hongshan. Ti Chan, Joanne. Thi Chan, Joyce. TOB am Chan, Shan-An. Thi Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Shan-An. Wil Chan, Wan. Wil Chan, Shan-An. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wan. Wil Chan, Wark. Thi		Chamberlain, Casey. WP 4 Chambers, Andrew ThP 6 Chambers, Andrew ThP 6 Chambers, Erin. ThP 6 Chambers, Erin. WP 2 Chambers, Erin. TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Tina WP 1 Chambers, Matthew TP 3 Chambers, Tina MP 6 Chambers, Matthew TP 3 Chambers, Tina MP 6 Chambers, Matthew TP 3 Chambers, Matthew TP 2 Chambers, Matthew ThP 2 Chambers, Matthew ThP 5 Chan, Hongshan TP 5 Chan, Hongshan TP 5 Chan, Joyce TOB am 09 Chan, Mark ThP 16 Chan, Shan-An TP 2 Chan, Shan-An TP 2 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2	Chamberlain, Casey	TP 527
Chambers, Andrew Thi Chambers, Erin. Thi Chambers, Erin. Thi Chambers, Erin. Ti Chambers, Matthew Ti Chambers, Matthew Ti Chambliss, Kevin Ti Chamot-Rooke, Julia Mi Chamot-Rooke, Julia Thi Chamot-Rooke, Julia Thi Chan, Hongshan Ti Chan, Hongshan Ti Chan, Joanne ToB am Chan, Joyce TOB am Chan, Shan-An Thi Chan, Shan-An Thi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Tak Mi Chan, Wark Mi Chan, Tak Mi Chan, Wark Thi <	ThP 674 ThP 037 ThP 038 WP 250 TP 456 TP 362 WP 189 TP 189 TP 189 ThP 552 ThP 552 ThP 576 ThP 690 TOB am 09:50 ThP 161 ThP 161 ThP 165 ThP 165 ThP 166 ThP 165 ThP 166 ThP 166 ThP 167 ThP 690 WP 201 WP 436 WP 607 ThP 637 ThP 637 ThP 637 ThP 647 ThP 456 ThP 456 ThP 456 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 534 ThP 535 ThP 535 ThP 535 ThP 535 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 566 ThP 377 ThP 486	Chambers, Andrew ThP 6 Chambers, Erin ThP 0 Chambers, Erin WP 2 Chambers, Erin TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 1 Chambers, Tina WP 1 Chambliss, Kevin TP 2 Chan, Tak TP 3 Chan, Tak TP 4 Chan, Tak MP 6 Chan, Shan-An TP 3 Chan, Shan-An TP 4 Chan, Tak-Wah Dominic	Chamberlain, Casey	WP 455
Chambers, Andrew Thi Chambers, Erin. Thi Chambers, Erin. Thi Chambers, Erin. Ti Chambers, Matthew Ti Chambers, Matthew Ti Chambliss, Kevin Ti Chamot-Rooke, Julia Mi Chamot-Rooke, Julia Thi Chamot-Rooke, Julia Thi Chan, Hongshan Ti Chan, Hongshan Ti Chan, Joanne ToB am Chan, Joyce TOB am Chan, Shan-An Thi Chan, Shan-An Thi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Tak Mi Chan, Wark Mi Chan, Tak Mi Chan, Wark Thi <	ThP 674 ThP 037 ThP 038 WP 250 TP 456 TP 362 WP 189 TP 189 TP 189 ThP 552 ThP 552 ThP 576 ThP 690 TOB am 09:50 ThP 161 ThP 161 ThP 165 ThP 165 ThP 166 ThP 165 ThP 166 ThP 166 ThP 167 ThP 690 WP 201 WP 436 WP 607 ThP 637 ThP 637 ThP 637 ThP 647 ThP 456 ThP 456 ThP 456 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 457 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 534 ThP 535 ThP 535 ThP 535 ThP 535 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 537 ThP 486 ThP 566 ThP 377 ThP 486	Chambers, Andrew ThP 6 Chambers, Erin ThP 0 Chambers, Erin WP 2 Chambers, Erin TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 1 Chambers, Tina WP 1 Chambliss, Kevin TP 2 Chan, Tak TP 3 Chan, Tak TP 4 Chan, Tak MP 6 Chan, Shan-An TP 3 Chan, Shan-An TP 4 Chan, Tak-Wah Dominic	Chambers, Andrew	ThP 654
Chambers, Erin. Thi Chambers, Erin. Wi Chambers, Erin. Ti Chambers, Erin. Ti Chambers, Matthew Ti Chambers, Tina Wi Chambers, Tina Wi Chambers, Tina Wi Chambers, Kevin Ti Chan, Hongshan Ti Chan, Joanne Th Chan, Joanne Th Chan, Joyce TOB am Chan, Joyce TOB am Chan, Joyce TOB am Chan, Joyce TOB am Chan, Tak-Wah Dominic Wi Chan, Shan-An Ti Chan, Tak-Wah Dominic Wi Chan, Tak-Wah Dominic Wi Chan, War Mi Chan, War Mi Chan, War Mi Chan, War	ThP 030 WP 250 TP 456 TP 362 WP 189 WP 189 WP 189 Th 183 A MP 655 A ThP 262 ThP 552 ThP 576 ThP 690 TOB am 09:50 ThP 151 ThP 151 ThP 241 WP 525 Inic WP 201 WP 435 WP 607 MP 669 MP 669 ThP 351 ThP 354 ThP 354 ThP 630 ThP 356 ThP 356 ThP 456 ThP 456 ThP 457 WOB am 10:10 ThP 637 ThP 637 ThP 647 MP 638 ThP 637 ThP 457 ThP 647 MP 638 ThP 530 ThP 457 ThP 457 ThP 458 ThP 548 ThP 549 ThP 558 ThP 579 ThP 459 ThP 570 ThP 457 ThP 458 ThP 570 ThP 647 ThP 647 ThP 548 ThP 558 ThP 558 ThP 570 ThP 480 ThP 568 ThP 570 ThP 480 ThP 568 ThP 372 TP 480 ThP 560 ThP 372 TP 480 ThP 560 ThP 372 TP 480 ThP 560 ThP 372 TP 480 ThP 560 ThP 372 TP 480 ThP 560 ThP 372 ThP 480 ThP 560 ThP 374 ThP 481 ThP 575 ThP 491 ThP 575 ThP 491 ThP 575 ThP 491	Chambers, Erin. The Chambers, Erin. Chambers, Erin. WP 2 Chambers, Erin. TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 1 Chambers, Matthew TP 1 Chambliss, Kevin TP 2 Chambliss, Kevin TP 2 Chambliss, Kevin TP 2 Chambliss, Kevin TP 3 Chan, Tak-Wah TP 4 Chan, Joane TP 4 Chan, Joane TP 4 Chan, Shan-An TP 4 Chan, Shan-An TP 4 Chan, Shan-An WP 6 Chan, Wark MP 6 Chan, Wark<	Chambers, Andrew	ThP 674
Chambers, Erin. Wi Chambers, Erin. Ti Chambers, Matthew Ti Chambers, Matthew Ti Chambers, Tina Wi Chambliss, Kevin Ti Chambers, Tina Wi Chambliss, Kevin Ti Chambliss, Kevin Ti Chambliss, Kevin Ti Chambliss, Kevin Ti Chambliss, Kevin Mi Chambliss, Kevin Mi Chambliss, Kevin Ti Chambliss, Kevin Th Cham, Month Th Chan, Month Th Chan, Month Th Chan, Mark Mi Chance, Mark Th Chance, Mark		Chambers, Erin. WP 2 Chambers, Erin. TP 4 Chambers, Matthew TP 3 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Tina WP 2 Chambers, Tina WP 6 Chambers, Tina MP 6 Chambers, Tina MP 6 Chambers, Wein TP 1 Chamot-Rooke, Julia ThP 2 Chan, Hongshan TP 5 Chan, Hongshan TP 5 Chan, Joyce TOB am 09 Chan, Shan-An TP 12 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chance, Mark TP 6 Chance, Mark <	Chambers, Erin	ThP 030
Chambers, Erin. TI Chambers, Matthew TI Chambers, Tina WI Chambliss, Kevin TI Chamot-Rooke, Julia MI Chamot-Rooke, Julia ThI Chan, Hongshan TI Chan, Joanne ThI Chan, Joyce TOB am Chan, Joyce TOB am Chan, Shan-An ThI Chan, Shan-An WI Chan, Shan-An WI Chan, Tak-Wah Dominic WI Chan, Shan-An WI Chan, Wan WI Chan, War MI Chance, Mark MI Chance, Mark Th Chance, Mark Th	TP 458 TP 368 TP 368 TP 368 TP 183 TP 183 TP 183 TP 185 TP 576 TP 576 TP 576 TP 576 TP 576 TP 494 TP 696 TP 697 TP 697 TP 697 TP 697 TP 697 TP 797 TP 797 TP 494 TP 593 TP 593 TP 596 TP 597 TP 199 TP 494 TP 566 TP 577 TP 199 TP 494 TP 566 TP 377 TP 199 TP 494 TP 566 TP 577 TP 199 TP 494 TP 566 TP 577 TP 199 TP 494 TP 566 TP 577 TP 199 TP 494 TP 597 TP 597 TP 497	Chambers, Erin. TP 4 Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambers, Tina WP 1 Chambliss, Kevin TP 1 Chamot-Rooke, Julia MP 6 Chamot-Rooke, Julia MP 6 Champion, Mathew Thp 2 Chan, Hongshan TP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 1 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An TP 2 Chan, Shan-An TP 2 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 4 Chan, Wan WP 4 Chan, Wan WP 4 Chan, Yi-Tsu WP 6 Chan, War MP 6 Chan, War MP 6 Chan, War MP 6 Chan, War MP 6 Chance, Mark ThP 6 Chance, Mark ThP 6 Chance, Mark ThP 6 Chance, Mark ThP 6 <t< td=""><td>Chambers, Erin</td><td>WP 250</td></t<>	Chambers, Erin	WP 250
Chambers, Matthew Ti Chambers, Tina Wi Chambliss, Kevin Ti Chamot-Rooke, Julia Mi Chamot-Rooke, Julia Thi Chamot-Rooke, Julia Thi Chan, Hongshan Ti Chan, Joanne Thi Chan, Joyce TOB am Chan, Joyce TOB am Chan, Shan-An Thi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Yi-Tsu Wi Chan, Ya-K Thi Chan, Mark Thi Chance, Mark Thi Chan, Gark Thi	TP 362 WP 188	Chambers, Matthew TP 3 Chambers, Tina WP 1 Chambliss, Kevin TP 1 Chamot-Rooke, Julia MP 6 Chamot-Rooke, Julia MP 6 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Shan-An ThP 1 Chan, Shan-An WP 5 Chan, Shan-An WP 6 Chan, Wan WP 6 Chan, Shan-An WP 6 Chan, Wan WP 6 Chan, War MP 6 Chan, War MP 6 Chance, Mark ThP 6 Chance, Mark ThP 8 Chance, Ma		
Chambers, Tina WI Chambliss, Kevin TI Chamot-Rooke, Julia MI Chamot-Rooke, Julia ThI Champion, Mathew ThI Chan, Hongshan TI Chan, Joyce TOB ami Chan, Joyce TOB ami Chan, Shan-An Th Chan, Shan-An TI Chan, Shan-An WI Chan, Shan-An WI Chan, Tak-Wah Dominic WI Chan, Yi-Tsu WI Chan, Yi-Tsu WI Chan, Yi-Tsu WI Chan, Wan MI Chance, Mark MI Chance, Mark Th Chance, Mark Th <td></td> <td>Chambers, Tina WP 1 Chambliss, Kevin TP 1 Chamot-Rooke, Julia MP 6 Chamot-Rooke, Julia ThP 2 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Shan-An WP 6 Chan, Wan WP 6 Chan, War WP 6 Chan, War MP 6 Chan, War MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chance, Mark ThP 7 Chance, Mark ThP 8 Chance, Mark ThP 9 <t< td=""><td>Chambers. Matthew</td><td>TP 362</td></t<></td>		Chambers, Tina WP 1 Chambliss, Kevin TP 1 Chamot-Rooke, Julia MP 6 Chamot-Rooke, Julia ThP 2 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Shan-An WP 6 Chan, Wan WP 6 Chan, War WP 6 Chan, War MP 6 Chan, War MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chance, Mark ThP 7 Chance, Mark ThP 8 Chance, Mark ThP 9 Chance, Mark ThP 9 <t< td=""><td>Chambers. Matthew</td><td>TP 362</td></t<>	Chambers. Matthew	TP 362
Chambliss, Kevin Ti Chamot-Rooke, Julia Mi Chamot-Rooke, Julia Thi Champton, Mathew Thi Chan, Hongshan Ti Chan, Joyce TOB am Chan, Mark Thi Chan, Shan-An Thi Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Wan Wi Chan, Yi-Tsu Wi Chance, Mark Mi Chance, Mark Thi	TP 183 A	Chambliss, Kevin TP 1 Chamot-Rooke, Julia MP 6 Chamot-Rooke, Julia ThP 2 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An ThP 1 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Tak-Wah Dominic WP 2 Chan, Yi-Tsu WP 6 Chan, Yi-Tsu WP 6 Chance, Mark MP 0 Chance, Mark MP 0 Chance, Mark ThP 0 Chance, Mark ThP 5 Chance, Mark ThP 6	Chambers. Tina	WP 189
Chamot-Rooke, Julia MI Chamot-Rooke, Julia Th Champion, Mathew Th Chan, Hongshan Ti Chan, Hongshan Ti Chan, Joyce TOB am Chan, Mark Th Chan, Shan-An Th Chan, Shan-An WI Chan, Tak-Wah Dominic WI Chan, Wan WI Chan, War WI Chance, Mark MI Chance, Mark MI Chance, Mark Th Chang, Cheng MI Chang, Cheng MI	MP 655 A ThP 226 A ThP 252 ThP 552 ThP 575 ThP 690 TOB am 09:50 ThP 105 ThP 151 ThP 241 WP 525 Inic. WP 201 WP 435 WP 606 MP 063 ThP 056 ThP 631 ThP 533 WP 666 TP 361 ThP 457 WP 686 TP 371 ThP 457 ThP 457 ThP 647 MP 638 ThP 647 MP 638 ThP 548 ThOA pm 03:50 WP 668 TP 581 ThP 456 ThOA pm 03:50 ThP 647 MP 636 ThP 537 ThP 457 ThP 458 ThP 533 ThP 533 ThP 533 ThP 533 ThP 533 ThP 534 ThP 548 ThP 536 ThP 537 ThP 494 TP 566 TP 377 TP 495 TP 485 TP 377 TP 494 TP 566 TP 377 TP 495 TP 485 TP 567 TP 485 TP 567 TP 485 TP 567	Chamot-Rooke, Julia. MP 6 Chamot-Rooke, Julia. ThP 2 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Hongshan TP 6 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An TP 1 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 4 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark ThP 5 Chance, Mark ThP 6 Chang, Cheng MP 6 <t< td=""><td>Chambliss. Kevin</td><td>TP 183</td></t<>	Chambliss. Kevin	TP 183
Chamot-Rooke, Julia Thi Champion, Mathew Thi Chan, Hongshan Thi Chan, Joanne Thi Chan, Joanne Thi Chan, Mark Thi Chan, Shan-An Thi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Wan Mi Chan, Wan Mi Chan, War Mi Chance, Mark Mi Chance, Mark Thi Chance, Mark Thi Chance, Mark Thi Chance, Mark Thi Chande, Mark Thi Chande, Mark Thi Chande, Mark Thi Chande, Mark	a	Champtor, Mathew ThP 2 Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joanne ThP 10 Chan, Mark ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 4 Chan, Tak-Wah Dominic WP 2 Chance, Mark ThP 6 Chance, Mark ThP 6 Chance, Mark ThP		
Champion, Mathew Thi Chan, Hongshan Ti Chan, Joanne Thi Chan, Joyce TOB am Chan, Shan-An Thi Chan, Shan-An Wi Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Tak-Wah Dominic Wi Chan, Yi-Tsu Wi Chance, Mark Mi Chance, Mark Mi Chance, Mark Thi	ThP 552 TP 576 ThP 690 TOB am 09:50 ThP 106 ThP 106 ThP 151 ThP 241 WP 522 Inic. WP 201 WP 438 WP 607 MP 690 MP 690 MP 690 MP 690 ThP 351 ThP 593 WP 686 TP 361 ThP 494 ThP 667 ThP 637 ThP 637 ThP 637 ThP 637 ThP 637 ThP 647 MP 688 ThP 353 ThP 377 ThP 494 TP 566 TP 367 TP 199 TP 483 ThP 221 WP 607 ThP 221 WP 607 ThP 324 TP 706 WP 493 ThP 221 WP 607 ThP 324 TP 706 WP 697 ThP 324 TP 706 WP 597 ThP 441	Champion, Mathew ThP 5 Chan, Hongshan TP 5 Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Shan-An WP 6 Chan, War WP 6 Chan, Shan-An WP 6 Chan, War WP 6 Chan, War WP 6 Chan, Yi-Tsu WP 6 Chan, Yi-Tsu WP 6 Chan, Yi-Tsu WP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chance, Mark ThP 7 Chance, Mark ThP 8 Chance, Mark ThP 9 Chance, Mark ThP 9 Chance, Mark ThP 9 Chance, Mark ThP 9 Chanda, Joydeb WOB am 10 Chandy, Che	Chamot-Rooke Julia	ThP 226
Chan, Hongshan Tichan, Joanne Thichan, Joyce Chan, Joyce TOB amu Chan, Mark Thichan, Shan-An Thichan, Shan-An Chan, Shan-An Wile Chan, Shan-An Wile Chan, Shan-An Chan, Tak-Wah Dominic Wile Chan, Yi-Tsu Wile Chan, Yi-Tsu Chan, Yi-Tsu Wile Chance, Mark Mile Chance, Mark Chance, Mark Thichance, Mark Thichance, Mark Chanda, Joydeb WOB am Chandandandohan, Arun Thichandandohan, Arun Thichang, Cheng Mile Chang, Cheng Mile Chang, Cheng Mile Chang, Mile Chang, Huan-Tsung Thichang, Mile Chang, Hui-Yin Tile Chang, Hui-Yin Tile Chang, James Tile Chang, Sheng-Tao Wile Chang, Wile Chang, Wile Chang, Wei-Hung Thickang, Wile Chang, Wile Chang, Wei-Hung Thickang, Wile Chang, Wile Chang, Wile Chang, Wile Chang, Wile Chan	TP 576 ThP 690 TOB am 09:50 ThP 106 ThP 116 ThP 151 ThP 151 ThP 241 WP 522 Inic WP 201 WP 436 WP 607 MP 690 MP 690 MP 666 TP 537 ThP 637 ThP 456 WOB am 10:10 WOB am 10:10 WOB 486 MP 636 ThP 533 ThP 637 ThP 637 ThP 637 ThP 637 ThP 647 ThP 647 ThP 647 ThP 648 MP 686 TP 586 TP 586 TP 587 ThP 452 ThP 377 TP 198 TP 483 ThP 022 WP 493 ThP 221 WP 607 ThP 324 TP 706 WP 607 ThP 324 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 493 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 221 TP 706 TP 377 TP 198 TP 483 ThP 324 TP 706 TP 567 ThP 324 TP 706 TP 567 TP 577 TP 493	Chan, Hongshan TP 5 Chan, Joyce TOB am 06 Chan, Joyce TOB am 06 Chan, Mark ThP 1 Chan, Shan-An ThP 1 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 6 Chan, Wark MP 6 Chance, Mark MP 6 Chance, Mark ThP 0 Chance, Mark ThP 6 Chander, Shane ThP 6 Chander, Shane ThP 6 Chang, Cheng MP 6 Chang, Feng-Ming MP 6 Chang, Hui-Yin TP 5		
Chan, Joanne Thi Chan, Joyce TOB am Chan, Mark Thi Chan, Shan-An Thi Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Wan Wi Chan, Wark Mi Chance, Mark Mi Chance, Mark Thi Chander, Shane Thi Chang, Cheng Mi	ThP 690 TOB am 09:56 ThP 109:57 ThP 109:57 ThP 151 ThP 241 WP 525 Inic WP 201 WP 435 WP 600 MP 600 MP 600 ThP 056 ThP 351 ThP 631 ThP 532 WOB am 10:10 MP 641 MP 635 WP 665 TP 581 ThP 647 ThP 532 ThP 533 ThP 537 ThP 533 ThP 533 ThP 534 ThP 533 ThP 534 ThP 535 ThP 535 ThP 536 ThP 536 ThP 537 ThP 496 TP 566 TP 566 TP 577 TP 199 TP 483 ThP 221 WP 607 ThP 324 TP 706 WP 607 ThP 324 TP 706 TP 199 TP 483 ThP 221 WP 607 ThP 324 TP 706 TP 199 TP 483 ThP 221 WP 607 ThP 324 TP 706 TP 199 TP 493 ThP 221 TP 706 TP 199 TP 495 TP 496 TP 777 TP 199 TP 496 TP 777 TP 199 TP 496 TP 797 TP 199 TP 483 ThP 221 TP 706 TP 597 ThP 324 TP 706 TP 597 ThP 4417	Chan, Joanne ThP 6 Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An ThP 2 Chan, Shan-An WP 5 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 6 Chan, War MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chance, Mark ThP 6 Chance, Mark ThP 6 Chance, Mark ThP 7 Chance, Mark ThP 8 Chance, Mark ThP 9 Chander, Shane ThP 9 Chander, Shane ThP 9 Chang, Cheng MP 9 Chang, Hui-Yin TP 5 Ch	Chan Hongshan	TP 578
Chan, Joyce TOB am Chan, Mark Th Chan, Shan-An Th Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Wan Wi Chan, War Wi Chan, Wark Mi Chance, Mark Mi Chance, Mark Th Chance, Mark Th Chance, Mark Wi Chance, Mark Th Chande, Joydeb WOB am Chander, Sh	TOB am 09:50 ThP 105 ThP 105 ThP 241 WP 525 Inic	Chan, Joyce TOB am 09 Chan, Mark ThP 1 Chan, Shan-An ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 4 Chan, Yi-Tsu WP 6 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chander, Shane ThP 6 Ch	Chan Joanne	ThP 690
Chan, Mark Thi Chan, Shan-An Thi Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Wan Wi Chan, Wan Wi Chance, Mark Mi Chance, Mark Mi Chance, Mark Thi	ThP 106 ThP 106 ThP 156 TP 241 .WP 526 Inic. WP 201 .WP 436 .WP 607 .MP 606 .MP 606 .MP 606 .MP 606 .MP 606 .MP 606 .MP 607 .MP 631 .ThP 593 .MP 685 .ThP 456 .MOB am 10:10 .MP 647 .MP 648 .MP 686 .MP 686 .MP 686 .MP 486 .MP 4	Chan, Mark ThP 1 Chan, Shan-An ThP 1 Chan, Shan-An TP 2 Chan, Shan-An WP 5 Chan, Tak-Wah Dominic WP 2 Chan, Wan WP 4 Chan, Yi-Tsu WP 6 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark ThP 6 Chande, Shane ThP 6 Chand, Cheng MP 6 Chand, Cheng MP 6 Chang, Cheng Hao WP 4 Chang, Huan-Tsung ThP 5 Chang, Huan-Tsung ThP 6 Chang, Huan-Tsung ThP 7	Chan lovce To	OR am 09:50
Chan, Shan-An Thi Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Tak-Wah Dominic Wi Chan, Yi-Tsu Wi Chance, Mark Mi Chance, Mark Mi Chance, Mark Thi Chandar Double WOB am Chandramohan, Arun Thi Chang, Cheng Hao Wi Chang, Huan-Tsung	ThP 151 TP 241 WP 525 Inic. WP 201 WP 435 WP 607 MP 606 MP 606 ThP 056 TP 351 ThP 631 ThP 593 WP 606 WP 486 WP 486 WOB am 10:10 ThP 647 MP 685 ThP 533 ThP 533 ThP 374 TP 566 TP 377 TP 496 TP 376 TP 483 ThP 026 WP 493 ThP 221 WP 607 ThP 324 TP 706 WP 607 ThP 324 TP 706 WP 597 ThP 312	Chan, Shan-An. ThP 1 Chan, Shan-An. TP 2 Chan, Shan-An. WP 5 Chan, Shan-An. WP 5 Chan, Shan-An. WP 6 Chance, Mark. MP 6 Chance, Mark. ThP 6 Chance, Mark. ThP 5 Chance, Mark. ThP 5 Chance, Mark. ThP 6 Chance, Mark. ThP 9 Chande, Mark. ThP 9 Chander, Shane. ThP 9 Chand, Cheng. MP 9 Chang, Cheng. MP 9 Chang, Cheng. MP 9 Chang, Huan-Tsung. Th 9 Chang, Huan-Tsung. Th 9	Chan Mark	ThP 105
Chan, Shan-An Ti Chan, Shan-An Wi Chan, Tak-Wah Dominic Wi Chan, Wan Wi Chan, Wan Wi Chan, Yi-Tsu Wi Chance, Mark Mi Chance, Mark Mi Chance, Mark Ti Chance, Mark Th Chance, Mark Ti Chance, Mark Ti Chance, Mark Th Chande, Joydeb WOB am Chanda, Joydeb WOB am Chandramohan, Arun Th Chang, Cheng Mi Chang, Cheng Mi Chang, Huan-Tsung Th Chang, Hui-Yin Ti Chang, Hui-Yin Ti Chang, James Ti Chang, James Ti	TP 241 WP 525 inic. WP 201 WP 436 WP 607 MP 690 MP 690 MP 690 Th 953 Th 953 Th 953 WP 666 TP 584 Th 945 MOB am 10:10 Th 967 MP 685 WP 866 TP 587 Th 97 Th 97 Th 93 Th 93 Th 94 Th 95 Th 95 Th 96 Th 97 Th 97 Th 97 Th 98 Th 96 Th 97 Th 98 Th 96 Th 97 Th 97 Th 98 Th 96 Th 97 Th 98 Th 96 Th 97 Th 98 Th 96 Th 97 Th 98 Th 96 Th 97 Th 98 Th 92 Th 92 Th 96 Th 97 Th 92 Th 96 Th 97 Th 92 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 96 Th 97 Th 96 Th 97 Th 96 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97 Th 96 Th 97	Chan, Shan-An. TP 2 Chan, Shan-An. WP 5 Chan, Tak-Wah Dominic. WP 6 Chan, Wan WP 6 Chan, Wan WP 6 Chan, Yi-Tsu. WP 6 Chance, Mark. MP 6 Chance, Mark. MP 6 Chance, Mark. Th 9 Chang, Cheng. MP 6 Chang, Cheng. MP 6 Chan		
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Chan, Wan WI Chan, Yi-Tsu WI Chance, Mark MI Chance, Mark MI Chance, Mark Th Chance, Mark ThOA pm Chance, Mark Th Chand, Joydeb WOB am Chander, Shane Th Chang, Cheng Mi Chang, Cheng Mi Chang, Huan-Tsung Th Chang, Hui-Yin Ti Chang, Hui-Yin Ti Chan		Chan, Wan WP 4 Chan, Yi-Tsu WP 6 Chance, Mark MP 6 Chance, Mark MP 6 Chance, Mark The 9 Chance, Mark The 6 Chance, Mark The 6 Chance, Mark The 6 Chance, Mark The 7 Chance, Mark The 9 Chance, Mark Tho A pm 03 Chance, Mark Tho A pm 03 Chanda, Joydeb WOB am 10 Chandler, Shane The 6 Chandramohan, Arun The 6 Chang, Cheng MP 6 Chang, Cheng Hao WP 4 Chang, Geen-Dong The 5 Chang, Huan-Tsung The 5 Chang, Huan-Tsung The 5 Chang, Huan-Tsung The 5 Chang, James The 10 Chang, James The 10 Chang, James The 10 Chang, Wei-Hung The 10 Chang, Wei-Hung The 10 Chang, Wei-Hung The 10 Chang, Min, Choi	Chan Tak Wah Dominic	WD 201
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Chance, Mark. Ti Chance, Mark. Th Chance, Mark. Th Chance, Mark. Wi Chance, Mark. Ti Chance, Mark. ThOA pm Chande, Mark. ThOA pm Chande, Mark. ThOA pm Chande, Mark. ThOA pm Chance, Mark. ThOA pm Chande, Mark. ThOA pm Chande, Mark. Th Chander, Shane. Th Chandramohan, Arun. Th Chandramohan, Arun. Th Chang, Cheng Hao Wi Chang, Cheng Hao Wi Chang, Geen-Dong Th Chang, Huan-Tsung Th Chang, Hui-Yin. Ti Chang, Hui-Yin. Ti Chang, James. Ti Chang, Jaw-Kang Th Chang, Mira. Th Chang, Sheng-Tao Wi Chang, Wei-Hung Th Chang, Yan Zin. Ti Chang, Win, Choi. Th	TP 351 Th 631 Th 631 Th 758 WP 666 TP 581 Th 458 Th A58 Th A58 WOB am 10:16 Th 607 N MP 638 WP 486 MP 686 Th 753 Th 737 TP 494 TP 566 TP 370 TP 492 TP 492 WP 493 Th P 221 WP 607 Th P 324 TP 706 WP 597 Th 941 MP 557	Chance, Mark. TP 3 Chance, Mark. The 6 Chance, Mark. The 6 Chance, Mark. The 5 Chance, Mark. The 4 Chance, Mark. Tho 4 Chance, Mark. Tho Apm 03 Chanda, Joydeb WOB am 10 Chandramohan, Arun. The 6 Chandramohan, Arun. The 6 Chang, Cheng MP 6 Chang, Cheng Hao WP 4 Chang, Feng-Ming MP 6 Chang, Geen-Dong The 5 Chang, Huan-Tsung The 9 Chang, Huan-Tsung The 9 Chang, Hui-Yin TP 5 Chang, James TP 4 Chang, James TP 4 Chang, James TP 4 Chang, Wai-Chih WP 4 Chang, Wei-Hung The 9 Chang, Wei-Hung The 9 Chang, Yun-Chien WP 5 Channge, Chu-yin MP 3 Channaveerappa, Devika TP 9	Shance, Mark	IVIF 003
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Chance, Mark. Ti Chance, Mark. ThOA pm Chance, Mark. ThOA pm Chanda, Joydeb WOB am Chandler, Shane. ThI Chandramohan, Arun ThI Chang, Cheng MI Chang, Cheng MI Chang, Cheng Hao WI Chang, Feng-Ming MI Chang, Geen-Dong ThI Chang, Huan-Tsung Ti Chang, Huan-Tsung Ti Chang, Hui-Yin TI Chang, Hui-Yin TI Chang, James Ti Chang, James Ti Chang, Jaw-Kang ThI Chang, Mira ThI Chang, Mira ThI Chang, Wei-Hung ThI Chang, Yan Zin Ti Chang, Yun-Chien WI Chang, Chu-yin MI	TP 581 ThP 455 ThOA pm 03:50 WOB am 10:10 ThP 607 n. ThP 647 MP 638 MP 688 ThP 533 ThP 372 TP 494 TP 568 TP 198 TP 483 ThP 221 WP 607 ThP 324 TP 706 WP 687 ThP 324 TP 706 MP 687 ThP 372 TP 199 TP 199 TP 483 ThP 201 WP 493 ThP 221 WP 607 ThP 324 TP 706 MP 597 ThP 417	Chance, Mark. TP 5 Chance, Mark. ThP 4 Chance, Mark. ThOA pm 03 Chander, Shane. WOB am 10 Chandler, Shane. ThP 6 Chang, Cheng. MP 6 Chang, Feng-Ming. MP 6 Chang, Feng-Ming. MP 6 Chang, Huan-Tsung. ThP 5 Chang, Hui-Yin. TP 5 Chang, Hui-Yin. TP 5 Chang, James. TP 1 Chang, James. TP 1 Chang, Jaw-Kang. ThP 0 Chang, Kai-Chih. WP 4 Chang, Mira. ThP 2 Chang, Wei-Hung. ThP 3 Chang, Yun-Chien. WP 5 Change, Chu-yin. MP 3 Channaveerappa, Devika. TP 1	Chance, Mark	WD 666
Chance, Mark. Thi Chance, Mark. ThOA pm Chanda, Joydeb WOB am Chandler, Shane Thi Chandramohan, Arun Thi Chang, Cheng Mi Chang, Cheng Hao Wi Chang, Feng-Ming Mi Chang, Geen-Dong Thi Chang, Huan-Tsung Thi Chang, Huar-Tsung Ti Chang, Hui-Yin Ti Chang, James Ti Chang, James Ti Chang, Jaw-Kang Thi Chang, Kai-Chih Wi Chang, Sheng-Tao Wi Chang, Wei-Hung Thi Chang, Yan Zin Ti Chang, Yun-Chien Wi Chang, Chu-yin Mi	ThP 458 ThOA pm 03:50 WOB am 10:10 ThP 607 ThP 647 MP 638 WP 486 MP 688 ThP 537 ThP 372 TP 494 TP 568 TP 950 TP 493 ThP 020 WP 433 ThP 221 WP 607 ThP 324 TP 706 WP 597 ThP 411	Chance, Mark. ThP 4 Chance, Mark. ThOA pm 03 Chanda, Joydeb WOB am 10 Chandler, Shane. ThP 6 Chandramohan, Arun. ThP 6 Chang, Cheng. MP 6 Chang, Cheng Hao WP 4 Chang, Feng-Ming. MP 6 Chang, Geen-Dong. ThP 5 Chang, Huan-Tsung. ThP 3 Chang, Hui-Yin. TP 5 Chang, James. TP 4 Chang, James. TP 4 Chang, James. TP 4 Chang, Mira ThP 2 Chang, Mira ThP 2 Chang, Wei-Hung ThP 3 Chang, Yan Zin TP 7 Chang, Yun-Chien WP 5 Change, Chu-yin MP 3 Channaveerappa, Devika TP 7	Shance, Mark	VVF 000
Chance, Mark	ThOA pm 03:50 WOB am 10:11 ThP 607 n. ThP 647 MP 638 WP 486 MP 685 ThP 537 ThP 370 TP 196 TP 494 TP 494 TP 494 TP 494 TP 496 ThP 02C WP 493 ThP 324 TP 706 WP 607 ThP 324 TP 706 WP 607 ThP 324 TP 706 MP 567 MP 357	Chance, Mark. ThOA pm 03 Chanda, Joydeb WOB am 10 Chandler, Shane. ThP 6 Chandramohan, Arun. ThP 6 Chang, Cheng. MP 6 Chang, Cheng Hao WP 4 Chang, Feng-Ming. MP 6 Chang, Geen-Dong. ThP 5 Chang, Huan-Tsung. TP 3 Chang, Huar-Tsung. TP 4 Chang, Hui-Yin. TP 3 Chang, James. TP 1 Chang, James. TP 4 Chang, Jawe-Kang. ThP 0 Chang, Kai-Chih. WP 4 Chang, Mira. ThP 2 Chang, Wei-Hung. ThP 3 Chang, Wei-Hung. ThP 3 Chang, Yan Zin. TP 7 Change, Win, Choi. ThP 4 Change, Chu-yin. MP 3 Channaveerappa, Devika. TP 7		
Chanda, Joydeb	WOB am 10:10 ThP 607 n. ThP 647 MP 638 WP 486 MP 685 ThP 533 ThP 377 TP 494 TP 566 TP 377 TP 195 TP 483 ThP 021 WP 607 ThP 324 TP 706 WP 607 ThP 324 TP 706 WP 597 ThP 411	Chanda, Joydeb		
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Chandramohan, Arun Thi Chang, Cheng Mi Chang, Cheng Hao Wi Chang, Feng-Ming Mi Chang, Feng-Ming Mi Chang, Geen-Dong Thi Chang, Huan-Tsung Thi Chang, Hui-Yin Ti Chang, Hui-Yin Ti Chang, James Ti Chang, James Ti Chang, Jaw-Kang Thi Chang, Kai-Chih Wi Chang, Mira Thi Chang, Sheng-Tao Wi Chang, Wei-Hung Thi Chang, Yan Zin Ti Chang, Yun-Chien Wi Change, Chu-yin Mi	n. ThP 647	Chandramohan, Arun ThP 6 Chang, Cheng MP 6 Chang, Cheng Hao WP 4 Chang, Feng-Ming MP 6 Chang, Feng-Ming MP 6 Chang, Geen-Dong ThP 5 Chang, Huan-Tsung Th 9 Chang, Hui-Yin TP 5 Chang, Hui-Yin TP 5 Chang, James TP 1 Chang, James TP 2 Chang, Jaw-Kang ThP 0 Chang, Kai-Chih WP 4 Chang, Mira ThP 2 Chang, Sheng-Tao WP 6 Chang, Wei-Hung ThP 3 Chang, Yun-Chien WP 5 Change, Chu-yin MP 3 Channaveerappa, Devika TP 7	Chandler Chang	OD AIII 10.10
Chang, Cheng Mi Chang, Cheng Hao Wi Chang, Feng-Ming Mi Chang, Feng-Ming Mi Chang, Geen-Dong Thi Chang, Huan-Tsung Thi Chang, Huan-Tsung Ti Chang, Hui-Yin Ti Chang, Hui-Yin Ti Chang, James Ti Chang, Jawes Ti Chang, Jaw-Kang Thi Chang, Kai-Chih Wi Chang, Mira Thi Chang, Sheng-Tao Wi Chang, Wei-Hung Thi Chang, Yan Zin Ti Chang, Yun-Chien Wi Chang Min, Choi Thi Change, Chu-yin Mi	MP 638	Chang, Cheng MP 6 Chang, Cheng Hao WP 4 Chang, Feng-Ming MP 6 Chang, Feng-Ming MP 6 Chang, Geen-Dong ThP 5 Chang, Huan-Tsung ThP 3 Chang, Hui-Yin TP 5 Chang, Hui-Yin TP 5 Chang, James TP 1 Chang, James TP 4 Chang, Jaw-Kang ThP 0 Chang, Kai-Chih WP 4 Chang, Mira ThP 2 Chang, Sheng-Tao WP 6 Chang, Wei-Hung ThP 3 Chang, Yan Zin TP 7 Chang, Yun-Chien WP 5 Change, Chu-yin MP 3 Channaveerappa, Devika TP 7		
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	ShufenShu-Hua	MP 203 WP 414 WP 497	Cheng, K. C	TP 158 TP 027 ThP 079	Choi, Jae Choi, Jaewon Choi, Jaewoo	ThP 565 MP 259 WP 186
Chen,	ShufenShu-HuaShu-Hui	MP 203 WP 414 WP 497 MP 065	Cheng, K. C	TP 158 TP 027 ThP 079	Choi, Jae Choi, Jaewon Choi, Jaewoo Choi, Jaewoo	ThP 565 MP 259 WP 186 WP 398
Chen,	ShufenShu-Hua	MP 203 WP 414 WP 497 MP 065	Cheng, K. C	TP 158TP 027ThP 079ThP 063ThP 065	Choi, Jae Choi, Jaewon Choi, Jaewoo Choi, Jaewoo Choi, Jong Min	ThP 565 MP 256 WP 186 WP 398 ThP 686
Chen, Chen, Chen,	Shufen	MP 203 WP 414 WP 497 MP 065 TP 504 WP 012	Cheng, K. C	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408	Choi, Jae	ThP 565 MP 259 WP 186 WP 398 ThP 686 WP 68
Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si	TP 158TP 027ThP 079ThP 063ThP 065TP 408ThOE pm 04:10	Choi, Jae Choi, Jaewon Choi, Jaewoo Choi, Jaewoo Choi, Jong Min Choi, Kyoung-soo Choi, Meena	ThP 568
Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C	TP 158TP 027ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614	Choi, Jae	ThP 568
Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si	TP 158TP 027ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614	Choi, Jae	ThP 568 MP 258 WP 186 WP 398 ThP 686 WP 68 ThP 325 ThP 325 ThP 375 ThP 375
Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C	TP 158TP 027ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186	Choi, Jae	ThP 568 MP 258 WP 186 WP 398 ThP 686 WP 68 ThP 325 ThP 325 ThP 375 ThP 375
Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping. Cheng, Si. Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Sy-Chyi. Cheng, Tianjing.	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232	Choi, Jae	
Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 044 MP 09:
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tsung-Chi Vincent Vincent	MP 203WP 414WP 497MP 065TP 504WP 012ThP 275TP 048MP 030TP 100ThP 354TP 303TP 303TP 667	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Sy-Chyi. Cheng, Tianjing Cheng, Ting-Yu. Cheng, Wayland	TP 158TP 027Th 079ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 042 ThP 330 WP 099 MP 399
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tsung-Chi Vincent	MP 203WP 414WP 497MP 065TP 504WP 012ThP 275TP 048MP 030TP 100ThP 354TP 303TP 303TP 667	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing Cheng, Ting-Yu	TP 158TP 027Th 079ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 042 ThP 330 WP 099 MP 399
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Sy-Chyi Cheng, Tianjing Cheng, Tianjing Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan	TP 158TP 027TP 079ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50ThOE pm 02:50TP 050	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 686 MP 328 ThP 328 ThP 042 ThP 330 MP 097 MP 398 TP 275 MP 556 MP 566
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping. Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Sy-Chyi. Cheng, Tinging Cheng, Ting-Yu Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30	Choi, Jae	ThP 568 MP 258 WP 186 WP 398 ThP 686 ThP 328 ThOG pm 02:50 ThP 339 WP 399 WP 399 WP 399 MP 550 WP 560 WP 586
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203 WP 414 WP 497 MP 065 TP 504 WP 012 ThP 275 TP 048 MP 030 TP 100 ThP 354 TP 303 ThP 667 MP 613 MP 270 MP 687	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing Cheng, Ting-Yu Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Zhi Chengyuan, Cai	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30 TP 187	Choi, Jae	ThP 568 MP 258 WP 186 WP 398 ThP 688 ThP 326 ThOG pm 02:56 ThP 042 ThP 339 WP 398 TP 279 MP 550 WP 504 WP 504
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping. Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Sy-Chyi. Cheng, Tinging Cheng, Ting-Yu Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30 TP 187	Choi, Jae	ThP 568 MP 258 WP 186 WP 398 ThP 688 ThP 326 ThOG pm 02:56 ThP 042 ThP 339 WP 398 TP 279 MP 550 WP 504 WP 504
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tisung-Chi Vincent Vincent Vincent Vivian Warren	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing Cheng, Ting-Yu Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Zhi Chengyuan, Cai	TP 158 TP 027 ThP 079 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30 TP 187 MP 070	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 044 ThP 330 WP 399 WP 399 MP 509 WP 568 TP 568 TP 588 TP 538
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tsung-Chi Vincent Vincent Vivian Warren warren Wei	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing. Cheng, Ting-Yu Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Cheng	TP 158TP 027ThP 079ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50ThOE pm 02:50TP 050MOB am 08:30TP 187MP 070TOE pm 02:50	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 044 ThP 330 WP 399 WP 399 MP 509 WP 568 TP 568 TP 588 TP 538
Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tsung-Chi Vincent Vincent Vivian Warren Warren Wei Weibin	MP 203WP 414WP 497MP 065TP 504WP 012ThP 275TP 048MP 030TP 100TP 354TP 303TP 303ThP 667MP 613MP 270MP 687MP 397TP 270MP 521ThP 248	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Tianjing Cheng, Tianjing Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Yuan Cheng, Zhi Chengyuan, Cai. Chernev, Aleksandar Chernev, Aleksandar	TP 158TP 027TP 079ThP 079ThP 063ThP 065TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50TP 050TP 050MOB am 08:30TP 187MP 070TOE pm 02:50TOE pm 02:50TP 187MP 070TOE pm 02:50TP 354	Choi, Jae	ThP 56:
Chen, Chen,	Shufen	MP 203 WP 414 WP 497 MP 065 TP 504 WP 012 Thp 275 TP 048 MP 030 TP 100 Thp 354 TP 303 ThP 667 MP 613 MP 270 MP 687 MP 397 TP 270 MP 521 ThP 248 WP 270	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping. Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing. Cheng, Tianjing. Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Chengyuan, Cai. Chernev, Aleksandar Chernev, Aleksandar Chernobrovkin, Alexey	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 050 TOE pm 02:50 TP 187 TP 187 TP 187 TP 187 TP 187 TP 187 TP 187 TP 187	Choi, Jae	ThP 56: MP 25: WP 180 WP 39: ThOG pm 02:50 ThP 32: ThOG ym 02:50 ThP 39: WP 39: TP 27: MP 55: WP 58: TP 56: ThP 33: TP 56: ThP 33: TP 38: TP 38: ThP 37:
Chen, Chen,	Shufen	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi Cheng, Tianjing. Cheng, Tianjing. Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Chengvan, Cai Chernev, Aleksandar Chernev, Aleksandar Chernobrovkin, Alexey Chernobrovkin, Alexey	TP 158 TP 027 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 354 TP 357 WOG am 09:30	Choi, Jae	ThP 56:
Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tingting Tingting Vincent Vincent Vincent Vincent Weibin Weibin Weibin Shuffer Weibin Shuffer Shuffer Weibin Weibin Weibin	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Sy-Chyi Cheng, Sy-Chyi Cheng, Tianjing Cheng, Tianjing Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Zhi Chernev, Aleksandar Chernobrovkin, Alexey Chernobrovkin, Alexey Chernookiy, Dmitriy	TP 158 TP 027 ThP 079 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 354 TP 357 WOG am 09:30 WP 120	Choi, Jae	ThP 568 MP 255 MP 186 MP 398 ThP 688 ThP 326 ThOG pm 02:56 ThP 042 ThP 339 MP 399 TP 279 MP 550 MP 504 MP 504 ThP 336 ThP 336 ThP 337
Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tingting Tsung-Chi Vincent Vincent Vivian Warren Warren Wei Weibin Weibin Weibin Weibin Weibin Weibin	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Sy-Chyi Cheng, Sy-Chyi Cheng, Tianjing. Cheng, Tianjing. Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Cheng, Zhi Chengyuan, Cai Chernev, Aleksandar Chernev, Aleksandar Chernobrovkin, Alexey Chernobrovkin, Alexey Chernooky, Dmitriy. Chernova, Nadezhda	TP 158 TP 027 ThP 079 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 354 TP 357 WOG am 09:30 WP 120 WP 570	Choi, Jae	ThP 568 MP 258 MP 186 MP 398 ThP 688 ThP 326 ThOG pm 02:56 ThP 042 ThP 330 WP 399 MP 399 MP 550 WP 504 WP 588 TP 568 ThP 336 ThP 336 MP 377 ThP 357 ThP 367 MP 377 ThP 377 ThP 376
Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Shu-Hui Songjie Suming Suming Tao Tianjing Tingting Tingting Tsung-Chi Vincent Vincent Vivian Warren Warren Wei Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Tianjing. Cheng, Tianjing. Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Yuan Cheng, Yah Cheng, Valan Cheng, Valan Cheng, Aleksandar Chernev, Aleksandar Chernev, Aleksandar Chernobrovkin, Alexey Chernookiy, Dmitriy Chernova, Nadezhda Chervet, Jean-Pierre	TP 158TP 027ThP 079ThP 079ThP 063ThP 065TP 408ThP 665TP 408ThOE pm 04:10WP 614ThP 186TP 012WP 232ThP 498ThOC am 09:50TP 050TP 050MOB am 08:30TP 187MP 070TOE pm 02:50TP 354TP 357WOG am 09:30WP 120WP 570MP 615	Choi, Jae	ThP 568 MP 258 MP 186 MP 259 MP 186 MP 398 ThP 688 ThP 328 ThOG pm 02:56 ThP 042 ThP 330 MP 399 MP 399 MP 550 MP 550 MP 568 ThP 533 ThP 336 ThP 336 ThP 377 ThP 066 MP 379 MP 346 MP 346
Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Shu-Hui Songjie Sungije Suming Tao Tianjing Tingting Tingting Tsung-Chi Vincent Vincent Vivian Warren Warren Wei Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin	MP 203 WP 414 WP 497 MP 065 TP 504 WP 012 Thp 275 TP 048 MP 030 TP 100 Thp 354 TP 303 Thp 667 MP 613 MP 270 MP 687 MP 397 TP 270 MP 521 Thp 248 WP 270 WP 629 Thp 595 TP 595 TP 542 WP 036 MP 129	Cheng, K. C. Cheng, Kelvin. Cheng, Ming Cheng, Ming Cheng, Ping Cheng, Si Cheng, Sy-Chyi Cheng, Sy-Chyi Cheng, Tianjing Cheng, Tianjing Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Zhi Cheng, Aleksandar Chernev, Aleksandar Chernobrovkin, Alexey Chernobrovkin, Alexey Chernokiy, Dmitriy Chervet, Jean-Pierre Chervet, Jean-Pierre Chervet, Jean-Pierre Chetwyn, Nik	TP 158 TP 027 ThP 079 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 354 TP 357 WOG am 09:30 WP 120 WP 570 MP 615 WP 419 TP 048	Choi, Jae	ThP 568 MP 255 WP 186 WP 398 ThP 686 ThP 321 ThOG pm 02:50 ThP 042 ThP 339 WP 399 TP 279 MP 550 WP 589 TP 566 ThP 533 TP 384 ThP 377 ThP 067 MP 374 WP 369 WP 369 MP 374 WP 369 MP 375 MP 367 MP 375 MP 367 MP 376 MP 377 MP 367 MP 377 MP 367 MP 377 MP 367 MP 377 MP 367 MP 377
Chen, Chen,	Shufen Shu-Hua Shu-Hui Shu-Hui Shu-Hui Shu-Hui Songjie Songjie Suming Tao Tianjing Tingting Tranjing Tingting Traung-Chi Vincent Vincent Vincent Warren Warren Wei Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weibin Weidin Weidi Weidi Weidi Weidi Weiqi Weiqi Songjie Songjie Songjie Shu-Hui S	MP 203	Cheng, K. C. Cheng, Kelvin. Cheng, Ming. Cheng, Ming. Cheng, Ping. Cheng, Si Cheng, Stephen Z.D. Cheng, Sy-Chyi. Cheng, Tianjing. Cheng, Tianjing. Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Wayland Cheng, Yuan Cheng, Zhi Cheng, Zhi Chengyuan, Cai. Chernev, Aleksandar Chernev, Aleksandar Chernovkin, Alexey Chernobrovkin, Alexey Chernobrovkin, Alexey Chernookiy, Dmitriy Chernova, Nadezhda Chervet, Jean-Pierre Chervet, Jean-Pierre	TP 158 TP 027 ThP 079 ThP 079 ThP 063 ThP 065 TP 408 ThOE pm 04:10 WP 614 ThP 186 TP 012 WP 232 ThP 498 ThOC am 09:50 ThOE pm 02:50 TP 050 MOB am 08:30 TP 187 MP 070 TOE pm 02:50 TP 354 TP 357 WOG am 09:30 WP 120 WP 570 MP 615 WP 419 TP 048 TP 048	Choi, Jae	ThP 56:

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Chowdhury, Saiful	TP 579
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Chu, Ivan K.	
Chu, Phillip	TP 031
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Chu, Yanqiu	MP 242
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Churley, Melissa	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355ThP 554TP 334
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Churley, Melissa	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 355TP 355TP 354TP 334MP 117TP 301WP 236WP 459
Churley, Melissa	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 355TP 355TP 354TP 334MP 117TP 301WP 236WP 459
Churley, Melissa	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355TP 355TP 355TP 334MP 117TP 301WP 236WP 459WP 687
Churley, Melissa Ciach, Michał Ciamponi, Ana Ciamponi, Ana Cianferani, Sarah Ciarimboli, Giuliano Ciccimaro, Eugene Ciccimaro Jr., Eugene Ciccimaro Jr., Eugene Cifani, Paolo Cifani, Paolo Cillero-Pastor, Berta Ciner, Frederic Cipollo, John Cipollo, John Cipollo, John F Cismesia, Adam Clark, David Clark, David	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355TP 355TP 355TP 354MP 117TP 301WP 236WP 459WP 687
Churley, Melissa Ciach, Michał Ciamponi, Ana Ciamponi, Ana Cianferani, Sarah Cianferani, Sarah Ciarimboli, Giuliano Ciccimaro, Eugene Ciccimaro, Eugene Ciccimaro, Tr., Eugene Ciccimaro, Paolo Cifani, Paolo Cifani, Paolo Cillero-Pastor, Berta Ciner, Frederic Cipollo, John Cipollo, John Cipollo, John F Cismesia, Adam Clark, David Clark, David Clark, David Clark, David Clark, David Clark, Thomas	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355ThP 554TP 334MP 117TP 301WP 459WP 687WP 687TP 671
Churley, Melissa Ciach, Michał Ciamponi, Ana Ciamponi, Ana Cianferani, Sarah Cianferani, Sarah Ciarimboli, Giuliano Ciccimaro, Eugene Ciccimaro, Eugene Ciccimaro Jr., Eugene Cifani, Paolo Cifani, Paolo Ciflani, Paolo Cillero-Pastor, Berta Ciner, Frederic Cipollo, John Cipollo, John F Cismesia, Adam Clark, David Clark, David Clark, David Clark, Thomas Clarke, Blaise WOE	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 355TP 355TP 355TP 354MP 117WP 236WP 459WP 687WP 671MP 671MP 671
Churley, Melissa Ciach, Michał Ciamponi, Ana Ciamponi, Ana Cianferani, Sarah Cianferani, Sarah Ciarimboli, Giuliano Ciccimaro, Eugene Ciccimaro, Eugene Ciccimaro Jr., Eugene Cifani, Paolo Cifani, Paolo Ciflani, Paolo Cillero-Pastor, Berta Ciner, Frederic Cipollo, John Cipollo, John F Cismesia, Adam Clark, David Clark, David Clark, David Clark, Thomas Clarke, Blaise WOE	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 355TP 355TP 355TP 354MP 117WP 236WP 459WP 687WP 671MP 671MP 671
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Churley, Melissa	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355ThP 554TP 334MP 117TP 301WP 236WP 459WP 687ThP 671MP 612 pm 03:10 pm 03:10TP 633
Churley, Melissa Ciach, Michał Ciamponi, Ana Ciamponi, Ana Cianferani, Sarah Ciarimboli, Giuliano Ciccimaro, Eugene Ciccimaro, Eugene Ciccimaro Jr., Eugene Cifani, Paolo Cifani, Paolo Ciflero-Pastor, Berta Ciner, Frederic Cipollo, John Cipollo, John Cijollo, John F Cismesia, Adam Clark, David Clark, David Clark, Thomas Clarke, Blaise Clarke, Christian Clarku, David Clark, David Clarke, David Clarke, David Clarke, David Clarke, Christian Clarke, David Clarke, David Clarke, David Clarke, David Clarke, David Clarke, David Clarke, Christian Clarke, David Clasquin, Michelle	TP 291ThP 317TP 290WP 487TP 039MP 600ThP 258MP 411WP 462TP 053TP 355TP 355TP 354TP 304MP 117TP 301WP 236WP 459WP 687ThP 671MP 612MP 612MP 633
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Comps-Agrar, LaetitiaCompton, Philip	IOB am 09:50
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Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena da Silva, Meire	WP 396 MP 411 WP 402 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446
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Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 512 ThP 296
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 612 ThP 296
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 612 ThP 296
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena. da Silva, Meire. Da Silva, Ricardo. da Veiga Leprevost, Felipe. Daeuble, John. Dahal, Nikesh. Dahl, Jeff. Dahl, Jeff. Dai, Jun. Dai, Jun. Dai, Lingzi. Dai, Weidong. Dai, Xiaoxia. Dai, Yunxiang. Dai, Yuqin. Dai, Bello, Federica. Dale, Emily.	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 682 ThP 296 WP 179
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Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 512 ThP 296 WP 179 MP 080 WP 179 MP 080 WP 179 MP 179 MP 080 WP 153
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Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 420 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 220 WP 166 TP 553 WP 682 MP 512 ThP 296 WP 179 MP 080 WP 156 MP 206 MP 206
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 MP 027 TP 191 ThOB am 09:10 MP 027 WP 166 TP 553 WP 682 MP 512 MP 179 MP 080 WP 153 WP 153 WP 153 MP 1840
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 WP 200 WP 200 WP 163 MP 512 ThP 296 MP 512 MP 179 MP 080 MP 153 MP 156 MP 206
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 WP 200 WP 200 WP 163 MP 512 ThP 296 MP 512 MP 179 MP 080 MP 153 MP 156 MP 206
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 WP 220 WP 166 TP 553 WP 682 MP 512 ThP 296 WP 179 MP 087 MP 179 MP 183 WP 156 MP 206 MP 206 MP 206 MP 179 ThOB MP 183 MP 184 MP 184 MP 184
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Czyzyk-Krzeska, Maria D'Arienzo, Celia D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 553 WP 682 MP 512 MP 179 MP 189 MP 189 MP 208 TP 440 ThP 461 ThP 401 MP 575 MP 189 MP 677 TP 198 ThP 710 ThP 310 ThP 310 ThP 310 ThP 512
Czyzyk-Krzeska, Maria D'Arienzo, Celia D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 MP 027 TP 050 WP 208 WP 166 TP 553 WP 682 MP 512 ThP 296 MP 179 MP 080 MP 156 MP 208 TP 440 ThP 441 ThP 401 MP 575 MP 189 MP 575 MP 189 MP 677 TP 198 ThP 710 ThP 303 WP 512 WP 476
Czyzyk-Krzeska, Maria D'Arienzo, Celia. D'Aurelio, Marilena	WP 396 MP 411 WP 402 ThP 426 MP 460 WP 315 WP 535 TP 446 TP 191 ThOB am 09:10 WP 160 WP 220 WP 166 TP 553 WP 682 MP 512 ThP 296 MP 180 MP 180 MP 180 MP 170 MP 180
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Datar, Ajit Dator, Romel Dator, Romel Datwani, Sammy Dauner, Michael Davi, Maryline David, Fred David, Hom David, Larry	ThP 710WP 561 .TOD am 08:30MP 352WP 705ThP 226MP 300TP 087TP 639
Datar, Ajit Dator, Romel Dator, Romel Datwani, Sammy Dauner, Michael Davi, Maryline David, Fred David, Horn David, Larry Davidson, Emily	ThP 710WP 561 .TOD am 08:30WP 370WP 705ThP 226MP 300TP 087TP 639WP 471
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Dodds, Eric	ThODWOF	WP 208ThP 408ThP 422 pm 02:50ThP 202ThP 203ThP 203ThP 203ThP 204ThP 205ThP 313ThP 314ThP 315ThP 316ThP 526ThP 526ThP 527ThP 528ThP 528ThP 528ThP 559 am 03:38
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Dufour, Anthony. Dufour, Anthony. Dufour, Anthony. Dufour, Anthony. Dufresne, Martin. Duft, Denis Dugal-Tessier, Julien. Dugo, Paola Dugourd, Philippe Duignan, David. Dulaurent, Sylvain Dulaurent, Sylvain Dumlao, Darren Dumouchel, Jennifer Dun, Nae J. Dun, Siok Le Dunbar, Carmen. Dunbar, Robert C. Duncan, Bradley. Duncan, Jason. WODuncan, Kyle Dunham, Sage. Dunham, Sage.	WP 123 H pm 04:10ThP 267TP 395TP 043TP 205TP 142MP 713MP 713WP 483WP 093ThP 020ThP 020ThP 020TP 497 G am 09:10VP 284YP 286 H am 08:30TP 497 G am 09:10WP 284WP 284WP 286
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 512 Edgington, Alan MP 214 Edgington, Alan MP 39 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 446 Edgington, Alan TP 466 Edin, Matthew MP 462 Edison, Arthur MP 495 Edmondson, Ricky Th P 026 Edmondson, Ricky MP 715
Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair ThP 512 Edgington, Alan MP 214 Edgington, Alan MP 393 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 462 Edin, Matthew MP 462 Edison, Arthur MP 495 Edmondson, Ricky ThP 026
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair ThP 512 Edgington, Alan MP 214 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 466 Edin, Matthew MP 462 Eddin, Matthew MP 462 Edmondson, Ricky ThP 026 Edmondson, Ricky MP 715 Edwardson, Vidar ThP 095 Edwards, Joshua ThP 695
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair ThP 512 Edgington, Alan MP 291 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 466 Edgington, Alan MP 496 Edin, Matthew MP 496 Eddison, Arthur MP 498 Edmondson, Ricky ThP 026 Edmondson, Vidar ThP 095 Edwards, Joshua ThP 696 Edwards, Kyle TP 498 Edwards, Matthew MP 265
Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 214 Edgington, Alan MP 234 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 466 Edington, Alan TP 467 Eddington, Alan TP 467 Edin, Matthew MP 462 Edison, Arthur MP 495 Edmondson, Ricky ThP 026 Edmondson, Ricky MP 715 Edvardsson, Vidar ThP 096 Edwards, Joshua TP 496 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Matthew MP 265
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 107 Edge, Alasdair MP 214 Edgington, Alan MP 214 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 462 Edison, Arthur MP 462 Edison, Arthur MP 492 Edmondson, Ricky Th 092 Edmondson, Ricky MP 715 Edvardsson, Vidar Th 095 Edwards, Joshua Th 695 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Nathan WP 225 Edwards, Nathan Th 526
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 105 Edgington, Alan MP 214 Edgington, Alan MP 391 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 446 Edin, Matthew MP 462 Edison, Arthur MP 462 Edmondson, Ricky ThP 026 Edmondson, Ricky MP 715 Edvardsson, Vidar ThP 096 Edwards, Joshua ThP 695 Edwards, Matthew MP 265 Edwards, Matthew MP 213 Edwards, Nathan MP 225 Edwards, Nathan ThP 526 Edwin, De Pauw ThP 636 Egea, Pascal ThOB pm 02:30
Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 105 Edgington, Alan MP 214 Edgington, Alan MP 391 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 446 Edgington, Alan TP 466 Edin, Matthew MP 462 Edmondson, Ricky ThP 026 Edmondson, Ricky MP 715 Edwardson, Vidar ThP 096 Edwards, Joshua ThP 695 Edwards, Matthew MP 265 Edwards, Matthew MP 213 Edwards, Nathan WP 225 Edwards, Nathan ThP 526 Edwin, De Pauw ThP 636 Egea, Pascal ThOC am 09:10 Egea, Pascal ThOB pm 02:30 Egertová, Michaela MP 056
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Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 104 Edgington, Alan MP 39 Edgington, Alan TP 445 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 446 Edgington, Alan TP 446 Edgington, Alan TP 446 Edin, Matthew MP 466 Edion, Arthur MP 496 Edmondson, Ricky ThP 026 Edmondson, Ricky MP 716 Edwards, Joshua ThP 695 Edwards, Matthew MP 265 Edwards, Matthew MP 265 Edwards, Nathan MP 215 Edwards, Nathan MP 226 Edwards, Nathan MP 226 Edwards, Nathan MP 226 Edwin, De Pauw ThP 636 Egea, Pascal ThOC am 09:10 Egea, Pascal ThOB pm 02:30 Egertson, Jarrett MP 527 Egertson, Jarrett WP 075
Edeling, Melissa MOE pm 03:50 Edge, Alasdair MP 104 Edge, Alasdair MP 105 Edgington, Alan MP 212 Edgington, Alan MP 391 Edgington, Alan TP 445 Edgington, Alan TP 446 Edgington, Alan TP 446 Edgington, Alan TP 466 Edin, Matthew MP 495 Edmondson, Ricky Th 026 Edmondson, Ricky MP 715 Edwards, Oydar Th 905 Edwards, Joshua Th 695 Edwards, Matthew MP 265 Edwards, Matthew MP 215 Edwards, Nathan WP 225 Edwards, Nathan Th 956 Edwin, De Pauw Th 636 Egea, Pascal Th OC am 09:10 Egertson, Jarrett MP 052 Egertson, Jarrett WP 073 Egertson, Jarrett WP 075 Egertson, Jarrett WP 075 Egertson, Jarrett WP 075

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El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh	MOD WOG WOA	WP 159 MP 591 am 08:50 pm 02:30 pm 02:30
El-Hawiet, Amr	MOD WOG WOA	WP 159 MP 591 am 08:50 pm 02:30 pm 02:30 ThP 669
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua. Eliceiri, Kevin.	MOD WOG WOA	WP 159 MP 591 am 08:50 pm 02:30 pm 02:30 ThP 669 MP 296
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620
EI-Hawiet, Amr	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297
El-Hawiet, Amr Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396
El-Hawiet, Amr Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396
El-Hawiet, Amr Elia, Efstathios Elia, Soshua. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher. Elie, Nicolas. Eliferov, Vasiliy Elimger, Dalia. Eliuk, Shannon. Elkins, James	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 620WP 297TP 396MP 599MP 701
El-Hawiet, Amr Elia, Efstathios Elia, Soshua. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher. Elie, Nicolas. Eliferov, Vasiliy Elimger, Dalia. Eliuk, Shannon. Elkins, James	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 620WP 297TP 396MP 599MP 701
Elenitoba-Johnson, Kojo El-Hawiet, Amr Elia, Efstathios Elias, Josh Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396MP 599MP 701MP 702
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Elikins, James El-Kosasy, Amira Elladiou, Marios	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 297TP 396MP 599MP 701MP 702
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 599MP 701MP 702TP 343WP 615WP 615
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn.	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30 pm 02:30ThP 669WP 620WP 620WP 599MP 701MP 702MP 599MP 701MP 304
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliot, Courtney.	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 296WP 297WP 599MP 701MP 702TP 543WP 615TP 415TP 415
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Andrew	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669WP 296WP 297TP 396MP 701MP 702TP 543WP 615TP 415TP 304TP 118TP 304TP 304TP 304TP 304TP 304TP 304
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliforer, Vasiliy Eliinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Courtney	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 266WP 297TP 396MP 599MP 701TP 415TP 415TP 430TP 415MP 304TP 930TP 583
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Andrew	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 266WP 297TP 396MP 599MP 701TP 415TP 415TP 430TP 415MP 304TP 930TP 583
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua Eliceiri, Kevin Elicone, Christopher Eliferov, Vasiliy Eliferov, Vasiliy Elifuger, Dalia Eliuk, Shannon Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Courtney Elliott, Courtney Elliott, Cuelle Elliott, Noelle	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 701MP 702MP 702MP 304ThP 304ThP 019 am 09:30WP 583WP 583WP 583WP 583
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua Eliceiri, Kevin Elicone, Christopher Eliferov, Vasiliy Eliferov, Vasiliy Elifuger, Dalia Eliuk, Shannon Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Courtney Elliott, Courtney Elliott, Cuelle Elliott, Noelle	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 701MP 702MP 702MP 304ThP 304ThP 019 am 09:30WP 583WP 583WP 583WP 583
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliott, Courtney Elliott, Courtney Elliott, Courtney Elliott, Noelle Elliott, Noelle Ellis, Berkley	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 p
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Andrew Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669WP 296WP 297TP 396MP 701MP 702TP 543WP 615TP 415TP 415TP 019 am 09:30WP 583WP 428TP 469MP 469
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El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eligeror, Vasiliy Elinger, Dalia Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph. Ellis, Joseph. Ellis, Sam	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 599MP 701MP 702TP 543MP 304ThP 019 am 09:30WP 683WP 685TP 4969MP 501 am 09:30WP 501 am 08:50
El-Hawiet, Amr Elia, Efstathios Elias, Stathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliterov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliott, Courtney Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph. Ellis, Sam. Ellis, Sam. Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620MP 599MP 701MP 702MP 304Th 415MP 304Th 919 am 09:30WP 635WP 650MP 599MP 488Th 469MP 501 am 08:50TP 447TP 447
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Joseph Ellis, Shane Ellis, Shane Ellis, Shane Ellis, Shane Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620MP 599MP 701MP 702MP 304ThP 304ThP 019 am 09:30WP 635WP 465WP 650MP 583WP 469MP 501 am 08:50TP 447MP 304
El-Hawiet, Amr Elia, Efstathios Elias, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Courtney Elliott, Courtney Elliott, Courtney Elliott, Noelle Elliott, Noelle Ellis, Joseph. Ellis, Sam Ellis, Shane Ellis, Shane Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669WP 620WP 620WP 701MP 702MP 702MP 703MP 615MP 304ThP 415MP 304ThP 401 am 09:30WP 583WP 428TP 445TP 447TP 447MP 306WP 501 am 08:50TP 447MP 306
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Andrew Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Joseph Ellis, Joseph Ellis, Sam Ellis, Shane Ellis, Shane Ellis, Shane Ellis, Shane Ellis, Shane Ellis, Shane	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396MP 599MP 701MP 702TP 415MP 304ThP 619 am 09:30WP 283WP 447MP 306TP 448
El-Hawiet, Amr Elia, Efstathios Elias, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Courtney Elliott, Courtney Elliott, Courtney Elliott, Noelle Elliott, Noelle Ellis, Joseph. Ellis, Sam Ellis, Shane Ellis, Shane Ellis, Shane	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396MP 599MP 701MP 702TP 415MP 304ThP 619 am 09:30WP 283WP 447MP 306TP 448
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Eliinger, Dalia Eliuk, Shannon Elikins, James Eli-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Michael Eller, Morea Ellot, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Shane	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396MP 599MP 701MP 702TP 415MP 304ThP 019 am 09:30WP 428TP 649MP 306TP 447MP 306TP 281ThP 281ThP 281ThP 281ThP 281ThP 281WP 306 am 09:10
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliteror, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Sam Ellis, Shane	MOD WOG WOA TOG	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 599MP 701MP 702TP 543MP 615MP 304ThP 019 am 09:30WP 633WP 648TP 469MP 501 am 08:50MP 306WP 283ThP 281MP 306WP 283ThP 281MP 300TP 447MP 300TP 4489
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elite, Nicolas Elite, Nicolas Elite, Nasiliy Elinger, Dalia Eliuk, Shannon. Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliott, Courtney Elliott, Courtney Elliott, Andrew Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Joseph Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620MP 599MP 701MP 702TP 364MP 304ThP 019 am 09:30WP 635MP 458MP 501 am 08:50TP 447MP 304 am 09:30TP 489TP 499 am 09:30TP 470TP 470
El-Hawiet, Amr Elia, Efstathios Elias, Efstathios Elias, Josh. Elias, Josh. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Courtney Elliott, Courtney Elliott, Courtney Elliott, Andrew Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Sam Ellis, Sam Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296MP 599MP 701MP 702MP 702MP 304ThP 364MP 304ThP 308MP 428WP 501 am 08:50TP 447MP 300 am 09:10 am 09:10MP 300 am 09:10MP 352
El-Hawiet, Amr Elia, Efstathios Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon. Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Ellerbrock, Robyn. Elliott, Courtney Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph. Ellis, Sam Ellis, Shane. Ellis, Richard.	MOD WOG WOA	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669WP 620WP 296MP 599MP 701MP 702TP 415MP 304TP 415MP 304TP 643WP 615TP 447MP 306TP 447MP 306TP 447
El-Hawiet, Amr Elia, Efstathios Elias, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Mochael Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Shane Ellis, Richard Ellis, Richard Ellson, Richard Ellson, Richard Ellsone, Chad	MOD WOF	WP 159MP 591 am 08:50 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 297TP 396MP 599MP 701MP 702TP 415MP 304ThP 619 am 09:30WP 583WP 428TP 649MP 306TP 447MP 306TP 447MP 306TP 448 pm 02:30MP 363 am 09:10TP 489 pm 02:30MP 363 am 08:50
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Elite, Vasiliy Elinger, Dalia Eliuk, Shannon. Elikins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Michael Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Joseph Ellis, Joseph Ellis, Shane	MOD WOG WOA TOG TOG	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 599MP 701MP 702TP 346MP 304ThP 019 am 09:30WP 631WP 631MP 304ThP 304ThP 309MP 300MP 300MP 300MP 300MP 363 am 09:10MP 363MP 363
El-Hawiet, Amr Elia, Efstathios Elias, Josh. Elias, Joshua. Eliceiri, Kevin. Elicone, Christopher Elie, Nicolas Elitik, Shane Elliott, Andrew Elliott, Courtney Elliott, Noelle Ellis, Joseph Ellis, Sam Ellis, Shane	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 pm 02:30 pm 02:30ThP 669MP 296WP 620WP 620MP 599MP 701MP 702TP 364MP 304ThP 019 am 09:30WP 615MP 450MP 501 am 08:50TP 445MP 304ThP 699MP 304ThP 699MP 304ThP 489MP 306MP 306MP 306MP 306MP 306MP 306MP 306MP 306MP 363 am 08:50MP 363 am 08:50MP 363 am 08:50MP 363MP 363 am 08:50MP 363MP 363
El-Hawiet, Amr Elia, Efstathios Elias, Efstathios Elias, Josh Elias, Joshua Eliceiri, Kevin Elicone, Christopher Elie, Nicolas Eliferov, Vasiliy Elinger, Dalia Eliuk, Shannon Elkins, James El-Kosasy, Amira Elladiou, Marios Eller, Michael Eller, Michael Eller, Mochael Elliott, Courtney Elliott, Courtney Elliott, Noelle Ellis, Berkley Ellis, Joseph Ellis, Shane Ellis, Richard Ellis, Richard Ellson, Richard Ellson, Richard Ellsone, Chad	MOD WOG WOA 	WP 159MP 591 am 08:50 pm 02:30 p

Emans, Pieter	TP 334
Emary, William	TP 148
Emeline, Hanozin	
Emerson, David	
Emlet, David	
Emmett, Mark	
Emmett, Mark	MP 038
Emmons, Caleb	ThP 342
Emory, Joshua	
Endara, Maria-Jose	
Endara, Mana-305e	IVIF 337
Enders, Jeffrey	VVP 445
Endres, Kevin	
Endres, Kevin	
Eng, Jimmy	MP 052
Eng, Jimmy	MP 578
Eng, Jimmy	
Eng, Jimmy	ThO∆ nm 03·30
Eng. Jimmy	TOA em 00:10
Eng, Jimmy	
Engel, Brian	IP /24
Engel, Marc E.	MP 212
Engelke, Rudolf	ThP 330
Engelke, Udo	MP 432
Engelsman, Anton	
Engen, John	
Engen, John	
Engen, John	ThP 219
Engen, John	ThP 224
Engen, John	
Engen, John	
Engle, Nancy	
Engler, Thomas	
Enjalbert, Quentin	
Ennis, Kelli	
Eno, Nathan	ThP 153
Eno, Nathan	ThP 155
Eno, Nathan	
Eno, Nathan	
Enobakhare, Osamede	
Enomoto, Hirofumi	TP 345
Entrican, Cliff	
Entwistle, Andrew	ThP 579
Entwistle, Andrew	ThP 579
Entwistle, Andrew Enyenihi, Atim	ThP 579 WP 361 MP 661
Entwistle, Andrew Enyenihi, Atim Epperly, Michael	ThP 579 WP 361 MP 661 ThP 460
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily	ThP 579WP 361MP 661ThP 460WP 058
Entwistle, Andrew	ThP 579WP 361MP 661ThP 460WP 058WP 060
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 190 TP 424 MP 699 WP 588
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Alison	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 90 TP 424 MP 699 WP 588 TOC am 08:50
Entwistle, Andrew Enyenihi, Atim. Epperly, Michael Epure, Emily Epure, Emily Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Alison Erickson, Brian	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060TP 039 TP 612 WP 708 ThP 592 WP 050TP 632 TOA am 09:30 ThP 190TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 631
Entwistle, Andrew	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 642 MP 641 MP 699 MP 588 TP 641 TOC am 08:50 MP 522 MP 641 MP 588 TP 641 TOC am 08:50 MP 588 TP 641 TOC am 08:50 MP 588 TP 641 TOC am 08:50
Entwistle, Andrew Enyenihi, Atim. Epperly, Michael Epure, Emilly Epure, Emilly Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Jamie Erickson, Mercede	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 MP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 641 MP 588 TP 641 TOC am 08:50 MP 522 MP 641 MP 588 TP 641 TP 715
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Netra Erdsod, Duygu Erickson, Alison Erickson, Alison Erickson, Rrian Erickson, Brian Erickson, David	ThP 579 WP 361 MP 661 ThP 460 WP 050 WP 060TP 039TP 612 WP 708 ThP 592WP 050TP 632 TOA am 09:30ThP 190TP 424 MP 699WP 588 TOC am 08:50 MP 522 MP 641WP 588TP 641TOC am 08:50TP 641TOC am 08:50TP 702MP 284TP 715MOF pm 03:30
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, David Erion, Derek Erlandsson, Dag	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Netra Erdsod, Duygu Erickson, Alison Erickson, Alison Erickson, Rrian Erickson, Brian Erickson, David	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Davia Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 621 MP 641 MP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061 WP 409
Entwistle, Andrew Enyenihi, Atim. Epperly, Michael Epure, Emily Epure, Emily Epure, Emily Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Dawid Erickson, David Erlandsson, Dag Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 706
Entwistle, Andrew Enyenihi, Atim. Epperly, Michael Epure, Emily Epure, Emily Epure, Emily Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Dayid Erickson, Dayid Erinst, Robert Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 MP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 TP 632 MP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061 WP 409 WP 421 WP 488
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Netra Erdson, Alison Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Jamie Erickson, Jamie Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TOC am 08:50 TP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061 WP 409 WP 421 WP 488 WP 491
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erddgdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Jamie Erickson, Jamie Erickson, Mercede Erikson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TOC am 08:50 TP 702 MP 284 TP 702 MP 284 TP 705 MP 284 TP 701 MP 284 TP 701 MP 284 TP 701 MP 409 WP 499 WP 488 WP 491 WOD pm 04:10
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert	ThP 579
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TTO C am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 WP 588 TP 641 WP 588 TP 641 WP 588 TP 641 WP 499 WP 424 MP 699 WP 424 WP 488 WP 491 WP 409 WP 421 WP 488 WP 491 WOD pm 04:10 TOF pm 03:30 ThP 022
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TTO C am 08:50 MP 522 MP 641 WP 588 TP 641 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 WP 588 TP 641 WP 588 TP 641 WP 588 TP 641 WP 499 WP 424 MP 699 WP 424 WP 488 WP 491 WP 409 WP 421 WP 488 WP 491 WOD pm 04:10 TOF pm 03:30 ThP 022
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emilly Epure, Emilly Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdogdu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 ThP 190 MP 588 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 WP 588 TP 641 TOC am 08:50 MP 522 MP 641 WP 588 TP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061 WP 409 WP 421 WP 488 WP 491 WOD pm 04:10 TOF pm 03:33
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Netra Erdson, Alison Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Jamie Erickson, Jamie Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ervin, John Eschenlauer, Arthur Escher, Genevieve	ThP 579 WP 361 MP 661 ThP 460 WP 058 WP 060 TP 039 TP 612 WP 708 ThP 592 WP 050 TP 632 TOA am 09:30 TP 424 MP 699 WP 588 TOC am 08:50 MP 522 MP 641 WP 588 TOC am 08:50 MP 521 MP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 641 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 WP 588 TP 641 TOC am 08:50 TP 702 MP 284 TP 715 MOF pm 03:30 TP 061 WP 409 WP 421 WP 488 WP 491 WOD pm 04:10 TOF pm 03:30 ThP 022 WP 333 ThOG am 08:30
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdsodu, Duygu Erdogdu, Duygu Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Jamie Erickson, Jamie Erickson, Jamie Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert	ThP 579 WP 361 MP 661 ThP 460 WP 050 WP 060TP 039 TP 612 WP 708 ThP 592WP 050TP 632 TOA am 09:30 ThP 190TP 424 MP 699WP 588 TOC am 08:50 MP 522 MP 641TOC am 08:50TP 641TOC am 08:50TP 702MP 528TP 641TOC am 08:50TP 702TP 641TOC am 08:50TP 702TP 702TP 702TP 705TP 7061TP
Entwistle, Andrew Enyenihi, Atim Epperly, Michael Epure, Emily Epure, Emily Erb, Stephane Erber, Luke Erber, Luke Erdemgil, Yigit Erdmann-Gilmore, Petra Erdmann-Gilmore, Petra Erdmann-Gilmore, Netra Erdson, Alison Erickson, Alison Erickson, Alison Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Brian Erickson, Jamie Erickson, Jamie Erickson, David Erion, Derek Erlandsson, Dag Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ernst, Robert Ervin, John Eschenlauer, Arthur Escher, Genevieve	ThP 579

Eschweiler, Joseph			
Eschweiler, Joseph		WP	387
Escobar, Hernando		TP	213
Escobedo, John		MP	489
Esfandiary, Reza			
E shghi , Shadi			
Esler, Mark		WP	333
Espada, Alfonso		ThP	201
Espada, Alfonso		. IIII .	202
Espada, Allonso		ThD:	201
Espadas, Guadalupe		IIIP	SO
Espadas, Guadalupe	INOA	am ue	3:30
Espelien, Brenna		MP	683
Esper, Annette	TOD	am 09	9:30
Espino, Jessica		MP	054
Espino, Jessica		MP	407
Esponada, Raul		MP	696
Estes, Jacob			
Esteves, Cibele			
Esumi, Noriko		WP.	68.
Etienne, Chris			
Ettinger, Ames			
Etzerodt, Thomas			
Evans, Anne		1P	468
Evans, Anne		WP	448
E vans , Anne	WOD	am 09	9:50
Evans, Bradley		ThP	56
Evans, Charles		WP	329
Evans, Christopher		ThP	012
Evans, Christopher	WOF	nm 02	.30
Evans, Ronald			
Evans, Ronald			
Evalls, Rollalu		IVIF	7 16
Evans-Nguyen, Kenyon		IVIP I	010
Evans-Nguyen, Theresa		INP	30
Evans-Nguyen, Theresa Evans-Nguyen, Theresa		ThP	379
Evans-Nguyen, Theresa		ThP	397
Eveland, Andrea		MP	548
Eveque-Mourroux, Maxime		TP	334
Everest-Dass, Arun		MP	076
Everett, Thomas		T. D.	CE
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Everley, Robert		WP	588
Everley, Robert Evers, Alex	ThOE	WP : pm 02	588 2:50
Everley, Robert Evers, Alex Evers, Waltraud	ThOE	WP : pm 02 TP :	588 2:50 060
Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel	ThOE	WP 9 pm 02 TP 9 WP	588 2:50 060 030
Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel	ThOE	WP : pm 02 TP : WP : pm 03	588 2:50 060 030 3:30
Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel	ThOE	WP : pm 02 TP : WP : pm 03 MP :	588 2:50 060 030 3:30
Everley, Robert Evers, Alex. Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel	ThOE	WP : pm 02 TP : WP : pm 03 MP :	588 2:50 060 030 3:30 373 629
Everley, Robert	ThOE	WP : pm 02TP :WP : pm 03MP :WP :	588 2:50 060 030 3:30 373 629 432
Everley, Robert	ThOE	WP : pm 02TP :WP : pm 03MP :WP :TP :	588 2:50 060 030 3:30 373 629 432 407
Everley, Robert	ThOE	WP : pm 02TP :WP : pm 03MP :WP :TP :ThP :ThP :MP	588 2:50 060 030 3:30 373 629 432 407
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Everley, Robert	ThOE	WP :WP :P :P :P : .	588 2:50 060 030 373 629 432 407 236 618 419
Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin	ThOE	WP :WP :WP :	588 2:50 060 030 373 629 432 407 236 618 419 109
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Everley, Robert	ThOE	WP : pm 02TP :WP : pm 03MP :ThP :MP :WP :ThPThPThPThPThPThPThPThPThP	588 2:50 060 030 3:30 373 629 407 236 570 618 419 109
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Everley, Robert	WOG	WP m 02 m	588 2:50 060 030 33:30 37:36 629 43:24 407 109 1109 1109 1120 448 449
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Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin Eysberg, Martin Eysberg, Martin F. de O. Rocha, Daniele F. F. Angolini, Célio F. Jaeeger, Caroline Fabrianczuk, Kimberly Fabino Carr, Allison Fabre, Elisabetth Fabris, Dan Fabris, Dan Fabris, Daniele	ThOE	WP pm 02	588 2:50 030 030 33:30 3373 629 432 443 570 611 410 441 496 070 448 496 070 5576 5576
Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin	WOG	WP pm 02 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	588 2:50 030 030 033 337 629 432 440 570 611 441 441 441 441 441 441 441 441 441
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Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin Esberg, Elisabeth Esbijanczuk, Kimberly Esbijanczuk, Kimber	WOG WOH	WP pm 02	588 2:50 060 030 033:30 629 443 236 641 410 110 110 110 110 110 110 110 110 1
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Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin Eysberg, Killion Eysberg, Kimberly Faber, Scott. Fabiganczuk, Kimberly Fabijanczuk,	WOG WOH	WP pm 02	588 2:50 060 030 3:30 3:30 3:37 629 443 236 618 4419 1109 1109 1109 1158 257 267 257 267 267 266
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Everley, Robert Evers, Alex Evers, Waltraud Ewan, H. Samuel Ewan, H. Samuel Ewing, Nigel Ewing, Nigel Ewing, Nigel Ewing, Robert Ewing, Simon Eysberg, Martin Eysberg, Keitio Faboris, Daniele Faboris, Cantin, Kimberly Fabris, Daniele Fabris, Daniele Faca, Vitor Facchini, Maria Fadgen, Keith Fagerquist, Clifton K Fagerquist, Clifton K Fagerquist, Clifton K Farges, Laetitia Faham, Malek Fahrenholz, Timothy Fahrmann, Johannes Falcetta, Francesca Falcone, Caitlin Falcone, Caitlin	WOG WOH	WP pm 02	588 2:50 060 030 3:30 3:30 3:30 3:30 3:30 3:30
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	TD 400
Falkenstein, Matt	IP 163
Falschlunger, Christoph	TD 546
Famiglini, Giorgio	IP 161
Famiglini, Giorgio	WP 516
Fan, Liang-Chun	TD 384
Fan, Lin-Yuan	
Fan, Peixun	TP 421
Fan, Sheng-Bo	TOA am 10:10
raii, Silelly-bu	10A alli 10.10
Fan, Teresa	MOC am 08:50
Fan, Teresa	WP 400
F V'	
Fan, Xing	MP 172
Fan, Yao-Yun	WP 638
Fan, Zengwei	
Fang, Bin	
Fang, Bin	ThP 120
Fang, Bin	VVP 440
Fang, Jing	MP 521
Fang, Jing	ThP 248
Fang , Jing	
Fang, Jing	WP 270
Fang, Jing	1115 397
Fang, Lei	ThP 473
Fang, Pan	TP 595
Fang, Ronnie	
Fang, Xiang	WP 009
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rang, Alang	WOTT PHT 02.30
Fang, Xinping	IP /11
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Fang, Xinping	MP 668
Fang, Xinping	
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Fang, Ying	
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Fang, Zixiang	
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Fannin, Steve	
Fantigante, William	
Fantin, Sarah	ThOC am 08:50
Far, Johann	
r ai , juliai III	IVIT 401
	WP 519
Far, Johann	WP 519 TP 354
Far, Johann Farafonova, Tatyana	TP 354
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Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem	TP 354 MP 295 ThP 048
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique	TP 354 MP 295 ThP 048 TP 452
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Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrowhi, Vahid Farrow, Melissa Farsou, Melissa Fasani, Roberta Fasci, Domenico Fast, Courtney Fast, Walter	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 ThP 674 MP 580 TOE pm 03:30 ThP 209
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farquhar, Erik Farrokhi, Vahid Farrow, Melissa Farrow, Melissa Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fathi, Reza	TP 354 MP 295 MP 1948 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 MP 585 TOE pm 03:30 MP 580 MP 580
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Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrowhi, Vahid Farrowh, Melissa Farrow, Melissa Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Walter Fast, Walter Fathi, Reza Fatica, Erica Fatigante, William Faustino, Patrick Fay, Dominik	TP 354 MP 295 MP 284 TP 452 MP 284 ThP 056 MOB am 08:50 MP 716 TP 446 MP 585 TOE pm 03:30 MP 580
Far, Johann	TP 354 MP 295 MP 284 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 220 ThP 678 TOE pm 03:30 MP 502 TP 707
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Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fathia, Reza Fatigante, William Faustino, Patrick Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Marc	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 210 MP 587 TOB pm 03:30 MP 598 MP 220 ThP 678 TOB pm 03:30 MP 590 MP 590 TTP 707 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 510 MOC pm 03:10 ThP 344
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fathia, Reza Fatigante, William Faustino, Patrick Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Marc	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 210 MP 587 TOB pm 03:30 MP 598 MP 220 ThP 678 TOB pm 03:30 MP 590 MP 590 TTP 707 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 510 MOC pm 03:10 ThP 344
Far, Johann Farafonova, Tatyana Farase, Ann	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 580 MP 780 TP 707 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 502 WOF pm 04:10 MOC pm 03:10 MP 544 WP 571
Far, Johann Farafonova, Tatyana Farafonova, Tatyana Farafonova, Tatyana Farase, Ann. Farhat, Bassem Faria, Henrique Farnsworth, Paul. Farquhar, Erik. Farrokhi, Vahid Farrow, Melissa Fasrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Courtney. Fast, Walter Fathi, Reza. Fatica, Erica Fatigante, William Faustin, Arline Faustino, Patrick. Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fazelinia, Hossein Feasel, Michael Feasel, Michael Feasel, Michael Feasel, Christa	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 MP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 MP 580 MP 220 MP 220 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 502 ThP 1678 TOB pm 03:30 MP 502 ThP 1707 MP 686 TOB pm 03:10 ThP 344
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrockii, Vahid Farrow, Melissa Fasrow, Melissa Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fatigante, William Faustin, Arline Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Marc Feasel, Michael Feaseley, Christa Federation, Alexander	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 220 ThP 674 MP 585 TOB pm 03:30 ThP 466 MP 220 ThP 676 MP 323 MP 502 ThP 678 TOB pm 03:30 MP 502 ThP 678 TOB pm 03:30 MP 502 ThP 678 TOB pm 03:10 ThP 344 TP 302 TOC am 09:10
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrockii, Vahid Farrow, Melissa Fasrow, Melissa Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fatigante, William Faustin, Arline Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Marc Feasel, Michael Feaseley, Christa Federation, Alexander	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 220 ThP 674 MP 585 TOB pm 03:30 ThP 466 MP 220 ThP 676 MP 323 MP 502 ThP 678 TOB pm 03:30 MP 502 ThP 678 TOB pm 03:30 MP 502 ThP 678 TOB pm 03:10 ThP 344 TP 302 TOC am 09:10
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Far, Johann Farafonova, Tatyana Farafonova, Tatyana Farase, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrowhi, Vahid Farrowhi, Vahid Farrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fathi, Reza Fatica, Erica Fatica, Erica Fatigante, William Faustino, Patrick Fay, Dominik Fay, Dominik Fay, Dominik Fazelinia, Hossein Feary, Marc Feasel, Michael Feasely, Christa Federation, Alexander Federspiel, Joel Federspiel, Joel Federspiel, Joel	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 ThP 466 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 220 ThP 678 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 550 MP 541 MOC pm 03:10 ThP 344 WP 571 MP 124 TP 302 TOC am 09:10 ThP 556
Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrockii, Vahid Farrow, Melissa Fasrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fatica, Erica Fatigante, William Faustin, Arline Faustin, Arline Faustin, Dominik Fay, Dominik	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 ThP 466 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 586 MP 220 ThP 678 MP 686 MP 220 ThP 678 TOB pm 03:30 MP 550 MP 541 MOC pm 03:10 ThP 344 WP 571 MP 124 TP 302 TOC am 09:10 ThP 556
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Far, Johann Farafonova, Tatyana Farese, Ann Farhat, Bassem Faria, Henrique Farnsworth, Paul Farquhar, Erik Farrokhi, Vahid Farrow, Melissa Fasrow, Melissa Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Courtney Fast, Walter Fathi, Reza Fatigante, William Faustin, Arline Faustin, Arline Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fay, Dominik Fasel, Michael Feasley, Christa Federspiel, Joel Federspiel, Joel Feddoriw, George Fedorov, Andrei	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 WP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 ThP 209 MP 580 MP 220 ThP 678 MP 220 ThP 678 TOB pm 03:30 MP 502 TO m 03:30 MP 502 TO m 09:10 ThP 344 TP 302 TO am 09:10 ThP 556 TP 616 MP 129 TP 616
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Far, Johann Farafonova, Tatyana Farafonova, Tatyana Farase, Ann	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:50 MP 716 TP 446 MP 585 TOE pm 03:30 MP 580 MP 680 MP 209 MP 580 MP 209 MP 580 MP 209 The 30:30 MP 502 WOF pm 04:10 MOC pm 03:10 MOC pm 03:10 ThP 344 MP 571 MP 124 TP 302 TOC am 09:10 ThP 556 TP 616 MP 151 ThP 299 TP 616 TP 411 TP 411 TP 411
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Far, Johann Farafonova, Tatyana Farafonova, Tatyana Farafonova, Tatyana Farese, Ann. Farhat, Bassem Faria, Henrique Farnsworth, Paul. Farquhar, Erik. Farrokhi, Vahid Farrow, Melissa Fasrow, Melissa Fasani, Roberta Fasci, Domenico Fasci, Domenico Fasci, Domenico Fast, Courtney. Fast, Walter Fathi, Reza. Fatica, Erica Fatica, Erica Fatigante, William Faustin, Arline Faustin, Arline Faustin, Arline Faustin, Hossein Fay, Dominik Fay, Dominik Fay, Dominik Fay, Horc Feasel, Michael Feasley, Christa Federspiel, Joel Federspiel, Joel Fedorov, Andrei Fedorov, Andrei Fedorov, Andrei Fedorov, Andrei Fedorov, Evgueni	TP 354 MP 295 ThP 048 TP 452 MP 284 ThP 056 MOB am 08:56 MP 716 TP 446 ThP 674 MP 585 TOE pm 03:30 MP 586 MP 220 ThP 676 MP 686 MP 220 ThP 676 MP 686 MP 220 ThP 676 TOB pm 03:10 ThP 344 MP 512 TP 302 TOC am 09:10 ThP 566 MP 151 ThP 566 TP 411 TP 411 TP 411 TP 411 TP 411 TP 411 TP 412 TP 702

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Feil, Gerhard	
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Feild, Brian	TP 442
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Fenaille, François	
Feng, Guifang	WP 089
Feng, Guoping	
Feng, Shan	TP 026
Feng, Sheng	ThP 660
Feng, Vivian	
Feng, Xidong	TP 035
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Fenton, Alexandra	
Fenyö, David	MP 315
Fenyö, DavidFenyö, David	MP 315 TOA am 09:30
Fenyö, DavidFenyö, DavidFerguson, Lee	MP 315 TOA am 09:30 MOD pm 03:50
Fenyö, DavidFenyö, DavidFerguson, Lee	MP 315 TOA am 09:30 MOD pm 03:50
Fenyö, DavidFenyö, DavidFerguson, Lee Ferguson, Michael	TOA am 09:30 TOA pm 03:50 TOE am 08:50
Fenyö, David	MP 315 TOA am 09:30 MOD pm 03:50 TOE am 08:50 ThP 162
Fenyö, David	MP 315 TOA am 09:30 MOD pm 03:50 TOE am 08:50 ThP 162
Fenyö, David	
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162ThOC am 08:50
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162TP 473MOE pm 03:50MP 357
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162TP 473MOE pm 03:50MP 357MP 500
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162TP 473MOE pm 03:50MP 357MP 500
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Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162ThOC am 08:50TP 473MOE pm 03:50MP 357MP 500TP 115TP 405TP 405
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162ThOC am 08:50TP 473MOE pm 03:50MP 357MP 500TP 115TP 405TP 405
Fenyö, David	MP 315 TOA am 09:30MOD pm 03:50TOE am 08:50ThP 162ThOC am 08:50TP 473MOE pm 03:50MP 357MP 500TP 405TP 405MOG pm 04:10MP 280
Fenyö, David	
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Fenyö, David Fenyö, David Ferguson, Lee Ferguson, Michael Ferguson, P Ferguson-Miller, Shelagh Fernandez, Céline Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Facundo Fernandez, Jose A Fernandez, Marc Fernandez, Roberto Fernández, Facundo Fernández, Facundo Fernández, Facundo Fernández, Facundo Fernández, Facundo Fernández, José Fernández, Roberto Fernández, Roberto Fernandez de la Mora, Juan Fernandez de la Mora, Juan Fernandez Lima, Francisco Fernandez Lima, Francisco Fernández-Alba, Amadeo	
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Ferrari, Michel	
Ferraria, Alessia	
Ferraris, QuintinFerreira, Christina	
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Ferreira, ChristinaWC	
Ferreira, Christina	
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Ferreira, Germano	
Ferry, Isabelle	
Ferzoco, Alessandra	TP 247
Fessenmayr, Heiko	
Fialkov, AlexFialkov, Alexander	NIP 255 MP 254
Fialkov, Alexander	
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Fialkov, Alexander	
Fiandalo, Michael Fideler, Jennifer	
Fiehn, Oliver	WP 403
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Fiehn, OliverMC	
Figard, Benjamin	
Figueiredo, Eduardo	
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Fincher, JarodFincher, Jarod	
Fiore, Cara	
Fiorella, Anna	
Firth, David	
Fischer, Gavin Fischer, Jeremy	
Fischer, Joshua	
Fischer, Joshua WC	
Fischer, KaitlynMC	OH pm 03:30
Fischer, Molly WC	
Fischer, Steve	
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Fischle, WolfgangTO	DE pm 02:50
Fischler, David Fischmann, Thierry	
Fisher, Carolyn	WP 125
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Fittchett, Jonathan Fitzgerald, Michael	
Fitzpatrick, Martin	
Fjeldsted, John	MP 367
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Fjeldsted, JohnFjeldsted, John	MP 370
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Fjeldsted, John Fjeldsted, John Fjeldsted, John	MP 386 TP 348 ThP 341 WP 375
Fjeldsted, JohnFjeldsted, John	MP 386 TP 348 ThP 341 WP 375 DA pm 03:30
Fjeldsted, John	MP 386 TP 348 ThP 341 WP 375 DA pm 03:30 WP 494 WP 571
Fjeldsted, John	MP 386 TP 348 ThP 341 WP 375 DA pm 03:30 WP 494 WP 571 ThP 358
Fjeldsted, John	MP 386 TP 348 ThP 341 WP 375 DA pm 03:30 WP 494 WP 571 ThP 358 ThP 217

Fletcher. Tyler	TP 31 ⁻
Fletcher, Tyler Fletcher, Tyler	TP 086
Fleury, Michel	TP 414
Flick, Tawnya	ThD 53'
Flick, Tawnya	ThOC nm 02:14
FIICK, Iawnya	1110G pm 03:10
Flinders, Colin	ThP 293
Flora, Rashpal	WP 430
Florence, Salvatore	WP 053
Florens, Laurence	MP 326
Flores-Bautista, Jeanette	WP 66
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Flórez, Monica	IVIP 10
Floyd, Adam	MP 26
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Fogerty, Meghan	WP 134
Fogh, Jens	TD 6/1
Fogo, Agnes	
F. T. David	IVIF 304
Foil, Daniel	IP /00
Foley, Casey	. WOG pm 02:30
Foley, Matthew	ThP 568
Follenzi, Antonia	TP 609
Fomsgaard, Inge	TP 15
Fondrie, William	\\/D /\Q!
Fondrie, William	TOE 22 03:34
ronarie, william	IOF pill 03.30
Fonslow, Bryan	MP 020
Fonslow, Bryan	MP 53
Fonslow, Bryan	MP 07
Fontaine, Fabien	MP 12
Fontaine, Fabien	MP 32
Fontaine, Fabien	MD 22
Fantaine, Fabian	IVIF 334
Fontaine, Fabien	INP 440
Forbes, Thomas	MP 35
Ford, Lisa	WP 448
Ford, Megan	MP 542
Ford, Michael	ThP 568
Ford, Stephen	TP 660
Foreman, David	ThP 17
Fornace, Albert	ThD 200
Formace, Albert	1117 300
Fornace, Albert	VVP 464
Fornace, Albert	MP 44
Fornace, Jr., A.J.	MOF pm 03:30
Fornecker, Luc	MP 600
Forneli, Luca	TP 67
Fornelli, Luca	
Fornelli, Luca	MD 66
Famali: Luca	MD CC
Fornelli, Luca	IVIP 004
Fornelli, Luca	1P 08
Fornelli, Luca	
Fornelli, Luca	TP 670
Fornelli, Luca	.ThOE pm 03:30
Forrest, William	ThP 289
Forrister, Dale	MP 55
Fort, Kyle	TD 65
Fort Kyle	TP 00
Fort, Kyle	1P 394
Fort, Kyle	
Fort, Kyle	
Fortin, Tanguy	WP 054
Fortin, Tanguy	ThP 10
Fortmann, Karen	WP 170
Fortmann, Karen	WP 183
Foss, Jamie	MD 201
Foss, Jamie	IVII 200
- USS, Jaillie	IF 1/3
Foss, Jamie	viuu am 09:30
Foss, Kearney	WP 170
Foster, Fred	TP 463
Foster, Fredrick	WP 162
Foster, Leigh	TP 066
Foster, Leigh	TP 62
Foster, Leight	
Factor Language	111 054
Foster, Leonard	MP 612
Foster, Mark	WP 30
Foster, Mark	ThP 62
Fotakis, Anna	WP 566
Fouquet, Thierry	MOH am 08:50
Fouquet, Thierry	MOH am 09:10
Fourches, Denis	\A/D 12'
Fourie, Aimee	TD 004
rourie, Allilee	1P 03
Fowble, Kristen	

Fowble, Kristen	
	TP 238
Fox, Melanie	
Fragoso, Gladis	
Franc, Vojtech	WP 227
France, AidanTOF	am 00:30
Franceschi, Pietro	
Franceschi, Pietro	ThP 290
Franco, Jackeline	MP 039
François, Arnaud	
François, Amauu	۷۷
Frank, MaxWOA	am 10:10
Frankevich, Vladimir	MP 112
Frankevich, Vladimir	
Franklin, Elissia	
Franssen, MauriceMOH	
Frapolli, Roberta	TP 332
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Fredette, Joe	
Fredette, Joe	TP 542
Fredette, JoeThOB	am 09:30
Fredriksen, Thomas	
Freeman, MichaelTOC	
Frehse, Stefan	WP 310
Frehse, Stefan	WP 278
Freiberger, Elyse	
Freinkman, Elizaveta	
Freinkman, Elizaveta WOD	am 09:50
Freitas, Michael A	ThP 319
Freitas-Andrade, Moises	
Frejno, Martin	
Fremont, DavedMOE	pm 03:50
French, Samuel	ThP 569
Frensemeier, LisaThOB	
Frese, Christian	
Frey, Brian	WP 679
Frey, Brian	WP 682
Frey, Brian	
Frey, Brian	
Frey, BrianThOA	am 09:50
Frey, BrianThOA	pm 03:10
Frov Michael	
Frey, Michael	WP 608
Fridén, Markus	WP 608 ThP 292
Fridén, Markus Fridjonsdottir, Elva	WP 608 ThP 292 TP 333
Fridén, Markus Fridjonsdottir, Elva	WP 608 ThP 292 TP 333
Fridén, Markus Fridjonsdottir, ElvaThOD	WP 608 ThP 292 TP 333 am 09:30
Fridén, Markus Fridjonsdottir, ElvaThOD Fried, MichalThOD	WP 608 ThP 292 TP 333 am 09:30 ThP 513
Fridén, Markus Fridjonsdottir, ElvaThOD Fridy, PeterThOD Fried, Michal Friedewald, JohnWOE	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715
Fridén, Markus Fridjonsdottir, ElvaThOD Fridy, PeterThOD Fried, Michal Friedewald, JohnWOE	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020
Fridén, Markus	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020
Fridén, Markus	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572
Fridén, Markus Fridjonsdottir, Elva Fridy, PeterThOD Fried, Michal Friedewald, JohnWOE Friedman, Daniel Friese, Olga Friese, Olga Friese, Olga Friese, Olga Friese, Olga	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572 ThP 579
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572 ThP 579 ThP 702
Fridén, Markus Fridjonsdottir, Elva Fridy, PeterThOD Fried, Michal Friedewald, JohnWOE Friedman, Daniel Friese, Olga Friese, Olga Friese, Olga Friese, Olga Friese, Olga	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572 ThP 579 ThP 702
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 ThP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572 ThP 579 ThP 702 TP 567
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 579 ThP 579 ThP 702 ThP 579 ThP 570
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 572 ThP 579 ThP 702 TP 567 TP 567 TP 544 TP 545 TP 547 TP 547 TP 547 TP 547 TP 547 TP 547 TP 547 TP 547
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 ThP 572 ThP 579 ThP 579 ThP 567 WP 245 WP 245 WP 245
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 ThP 572 ThP 579 ThP 579 ThP 567 WP 245 WP 245 WP 245
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 ThP 572 ThP 572 ThP 579 ThP 567 WP 714 WP 245 WP 245 WP 636
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 ThP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 ThP 572 ThP 579 ThP 702 TP 567 WP 714 WP 245 MP 072 MP 075 MP 076 MP 076 MP 076 MP 076 MP 076
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 ThP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 579 ThP 579 ThP 579 ThP 579 ThP 567 WP 714 WP 245 MP 072 MP 636 WP 058
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 579 ThP 579 ThP 579 TP 567 WP 714 WP 245 MP 036 WP 056 WP 058 WP 058 WP 058
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 056 ThP 579 ThP 579 ThP 579 TP 567 WP 714 WP 245 MP 036 WP 056 WP 058 WP 058 WP 058
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 ThP 572 ThP 579 ThP 579 ThP 579 ThP 579 ThP 579 ThP 566 WP 714 WP 245 WP 636 WP 058 WP 058 WP 058 WP 698
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 ThP 572 ThP 572 ThP 579 ThP 567 WP 714 WP 245 WP 636 WP 056 WP 058 WP 058 WP 058 WP 698 WP 698 WP 126
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608 ThP 292 TP 333 am 09:30 ThP 513 pm 04:10 ThP 715 MP 020 TP 567 ThP 579 ThP 579 ThP 567 WP 714 WP 245 MP 072 MP 072 MP 056 WP 058 MP 058 WP 058 WP 698 WP 698 WP 044
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292ThP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020ThP 579ThP 579ThP 579ThP 579ThP 567WP 714WP 245MP 636WP 056WP 058MP 636WP 058WP 058WP 698MP 698ThP 126ThP 126ThP 126
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292ThP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020ThP 579ThP 579ThP 579ThP 579ThP 567WP 714WP 245MP 636WP 056WP 058MP 636WP 058WP 058WP 698MP 698ThP 126ThP 126ThP 126
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292ThP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 056ThP 579ThP 579ThP 579ThP 579ThP 579MP 0245MP 025MP 056WP 058MP 058MP 058MP 025WP 698ThP 126ThP 126ThP 126ThP 564ThP 586
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020ThP 572ThP 579ThP 579ThP 579ThP 570WP 714WP 245MP 056WP 058MP 058MP 058MP 025WP 698ThP 126ThP 044WP 564WP 564ThP 586
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 293 am 09:30ThP 513 pm 04:10ThP 715ThP 572ThP 572ThP 579ThP 572ThP 567WP 714WP 245WP 056WP 056WP 056WP 056WP 058ThP 126ThP 126ThP 126ThP 368ThP 586TP 683ThP 586
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 567ThP 572ThP 579ThP 567WP 714WP 245MP 072MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 076MP 076MP 076MP 076MP 078MP 078MP 079MP 079
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 567ThP 572ThP 579ThP 567WP 714WP 245MP 072MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 075MP 076MP 076MP 076MP 076MP 078MP 078MP 079MP 079
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292ThP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 579ThP 579ThP 579ThP 567WP 714WP 245MP 072MP 058MP 058MP 058MP 058WP 058WP 698ThP 126ThP 586ThP 586ThP 586ThP 586ThP 586TP 683ThP 583ThP 583ThP 456TP 553
Fridén, Markus Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292ThP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020ThP 579ThP 579ThP 579ThP 579ThP 567WP 714WP 245MP 636WP 056WP 058MP 636WP 058MP 636WP 058MP 636WP 058MP 636WP 058MP 636ThP 564ThP 564ThP 564ThP 563ThP 563ThP 563ThP 553
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 556ThP 572ThP 579ThP 579ThP 579MP 714WP 714WP 714WP 056WP 058WP 058WP 698ThP 126MP 636WP 688ThP 126ThP 044WP 564ThP 586ThP 683ThP 456TP 683ThP 456TP 553WP 077
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715ThP 572ThP 572ThP 572ThP 572ThP 574WP 245WP 245WP 056WP 056WP 056WP 058ThP 126ThP 126ThP 579
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715ThP 572ThP 572ThP 572ThP 572ThP 574WP 245WP 245WP 056WP 056WP 056WP 058ThP 126ThP 126ThP 579
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020ThP 572ThP 579ThP 579ThP 572TP 567WP 714WP 245MP 072MP 056WP 058MP 056WP 698ThP 126ThP 586ThP 586TP 583ThP 456TP 583ThP 456TP 553WP 077MP 217MP 217MP 217MP 638MP 609
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 579ThP 579ThP 579ThP 579ThP 567WP 714WP 245MP 072MP 058MP 058MP 058WP 698WP 698ThP 580WP 564ThP 580ThP 580TP 683ThP 583ThP 456TP 553WP 077MP 217WP 035MP 638MP 638MP 638MP 638MP 638MP 638MP 638MP 609TP 272
Fridén, Markus. Fridjonsdottir, Elva Fridy, Peter	WP 608ThP 292TP 333 am 09:30ThP 513 pm 04:10ThP 715MP 020TP 579ThP 579ThP 579ThP 579ThP 567WP 714WP 245MP 072MP 058MP 058MP 058WP 698WP 698ThP 580WP 564ThP 580ThP 580TP 683ThP 583ThP 456TP 553WP 077MP 217WP 035MP 638MP 638MP 638MP 638MP 638MP 638MP 638MP 609TP 272

Fuchs, Matthias	TOD pm 04:10
Fuego-Mendez, Monica	
Fujii, Kiyonaga	
Fujii, Makiko	
Fujimoto, Gordon	
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Furdui, Cristina	WP 59
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Furlan, Cristina	I hOE pm 03:10
Furtado, Milton	MP 670
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Fussell, Richard Gabashvili, Alexandra	TP 196
Fussell, Richard Gabashvili, Alexandra Gabashvili, Alexandra	TP 190 TP 660 MP 599
Fussell, Richard Gabashvili, Alexandra Gabashvili, Alexandra Gabelica, Valérie	TP 1966 TP 666 MP 599 ThP 406
Fussell, Richard	TP 190 MP 599 ThP 400 ThOH am 08:50
Fussell, Richard	TP 190TP 660MP 599ThP 400ThOH am 08:50
Fussell, Richard	TP 190TP 660MP 599ThP 400ThOH am 08:50TP 690
Fussell, Richard	TP 190TP 660ThP 400ThOH am 08:50TP 690TP 630
Fussell, Richard	
Fussell, Richard	TP 190 TP 690 MP 599 ThP 400 ThO Ham 08:50 TP 690 TP 690 ThP 630 ThP 030 TP 030 TP 030 TP 030 TP 030 TP 030 TP 040 TP 040
Fussell, Richard	TP 190 TP 660 MP 599 ThP 400 ThOH am 08:50 TP 690 TP 690 ThP 630 ThP 030 TP 077 MP 430 ThP 390 ThP 63
Fussell, Richard	TP 190 TP 660 MP 590 The 400 ThOH am 08:50 TP 690 TP 690 The 630 The 030 TP 077 MP 430 The 390 The 390 The 530 TP 520 MP 530
Fussell, Richard	
Fussell, Richard	
Fussell, Richard	
Fussell, Richard	TP 190 TP 690 MP 599 ThP 400 ThP 400 TP 690 TP 690 TP 630 TP 520 MP 530 WOE pm 02:50 WP 500 TOE pm 03:51
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gadkari, Varun Gaffrey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagnon, Michael Gagnon, Michael Gagnon, Michael Gagnon, Michael Gagnon, Michael	TP 190 TP 690 TP 690 TP 690 TP 690 TP 690 TP 690 TP 630
Fussell, Richard	TP 190 TP 660 MP 599 Th 400 ThOH am 08:51 TP 690 TP 690 TP 690 TP 630 TP 037 MP 430 TP 730 MP 430 TP 530 MP 531 MP
Fussell, Richard	
Fussell, Richard	TP 190 TP 690 TP 630 TP 070 MP 431 TP 070 MP 431 TP 500 MP 500 TP 160 MP 500 TP 600 MP 390 TP 600 MP 390 TP 440
Fussell, Richard	TP 190 TP 690 TP 690 TP 690 TP 690 TP 690 TP 690 TP 630 TP 030 TP 030 TP 630 TP 530 TP 520 MP 530 WOE pm 02:50 TP 160 MP 500 MP 390 TP 441 ThP 121
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Meghan Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gadkari, Varun Gaffrey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gagnon, Michael Gairloch, Elena Gairloch, Elena Gaigenthra Kumar, Naren Gaigenthra Kumar, Naren	TP 190 TP 690 TP 790
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Meghan Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gadriey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gagnon, Michael Galfie, Gabriel Gairloch, Elena Gairloch, Elena Gaigenthra Kumar, Naren Galashan, Fingal	TP 190 TP 690 TP 690 TP 690 TP 690 TP 690 TP 630 TP 640 TP 650 TP
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Meghan Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gadkari, Varun Gaffrey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagnon, Michael Gagnon, Michael Gahoi, Nikita Gairloch, Elena Gairloch, Elena Gajenthra Kumar, Naren Galashan, Fingal Galashan, Fingal	TP 190 TP 690 MP 599 Th 400 ThO 400 ThO 400 ThO 690 Th 690 Th 690 Th 630 Th 703 Th 703 MP 430 Th 630
Fussell, Richard	TP 190 TP 690 TP 630 TP 070 MP 431 TP 070 MP 431 TP 500 MP 500 TP 500 TP 600 MP 300 TP 400 MP 300 MP
Fussell, Richard	TP 190 TP 690 TP 630 TP 030 TP 030 TP 030 TP 530 TP 530 TP 520 MP 431 MP 530 TP 500 MP 390 TP 440 TP 120 MP 331 WP 311 WP 270 TP 290 WP 270
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gachotte, Watthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gairloch, Elena Gairloch, Elena Gairloch, Elena Gairloch, Elena Gaigenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galayda, Katherine-Jo Galea, Dieter Galeand	TP 190 TP 690 TP 490 TP 190 TP 290 TP 190 TP 190
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Meghan Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gadhriey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gagnon, Michael Gairloch, Elena Gairloch, Elena Gairloch, Elena Gairloch, Elena Gaigenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galayda, Katherine-Jo Galermo, Ace Galermo, Ace	TP 190 TP 690 MP 599 Th 400 ThO 400 ThO 400 ThO 400 ThO 690 Th 630
Fussell, Richard	TP 190 TP 690 TP 630 TP 070 MP 430 TP 630 TP 640 MP 530 WOE pm 02:50 WP 500 TP 640 TP 650 WP 600 WP 300 TP 440 TP 120 WP 310 WP 270 TP 120 WP 270 TP 120 TP 120 MP 07
Fussell, Richard	TP 190 TP 690 TP 630 TP 070 MP 431 MP 591 MP 592 MP 530 WOE pm 02:50 MP 500 TOE pm 03:50 MP 390 MP 3
Fussell, Richard	TP 190 TP 690 TP 630 TP 070 MP 431 MP 591 MP 500 TP 500 MP 300 TP 600 MP 300 MP
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabalica, Valérie Gabolica, Valérie Gaboury, Ben Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gadkari, Varun Gaffrey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gagnon, Michael Gairloch, Elena Gairloch, Elena Gairloch, Elena Gajenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galashan, Fingal Galaermo, Ace Galermo, Ace Galermo, Ace Gallagher, Elyssia Gallagher, Elyssia Gallagher, Elyssia	TP 190 TP 690 TP 790 TP 190 TP 120 TP
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabashvili, Alexandra Gabelica, Valérie Gaboury, Ben Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gachotte, Watthew Gaffrey, Matthew Gagney, Sebastien Gagneux, Sebastien Gairloch, Elena Galenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galashan, Fingal Galashan, Fingal Galashar, Elyssia Gallagher, Elyssia Gallagher, Elyssia Gallagher, Elyssia Gallagher, Elyssia	TP 190 TP 690 TP 190 TP
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabashvili, Alexandra Gabelica, Valérie Gaboury, Ben Gabriel, Mazzucchelli Gabriel, Michelle Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gadrirey, Matthew Gaffrey, Matthew Gagne, Sebastien Gagneux, Sebastien Gagnon, Michael Gairloch, Elena Gairloch, Elena Gairloch, Elena Gajenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galashan, Fingal Galashan, Fingal Galayda, Katherine-Jo Galermo, Ace Galermo, Ace Galermo, Ace Gallagher, Elyssia	TP 190 TP 690 MP 599 Th 400 ThOH am 08:51 TP 690 TP 690 TP 690 TP 630 TP 070 MP 431 TP 160 MP 531 MP 531 MOE pm 02:51 ThP 160 MP 501 ThP 650 MP 390 TP 440 ThP 160 MP 390 TP 440 ThP 120 MP 270 ThP 290 MP 270 ThP 290 MP 270 ThP 120 MP 070
Fussell, Richard. Gabashvili, Alexandra Gabashvili, Alexandra Gabashvili, Alexandra Gabelica, Valérie Gaboury, Ben Gaboury, Ben Gaboury, Ben Gabriel, Mazzucchelli Gachotte, Daniel Gachotte, Daniel Gachotte, Daniel Gachotte, Watthew Gaffrey, Matthew Gagney, Sebastien Gagneux, Sebastien Gairloch, Elena Galenthra Kumar, Naren Galashan, Fingal Galashan, Fingal Galashan, Fingal Galashan, Fingal Galashar, Elyssia Gallagher, Elyssia Gallagher, Elyssia Gallagher, Elyssia Gallagher, Elyssia	TP 190 TP 690 MP 599 Th 400 ThOH am 08:51 TP 690 TP 690 Th 630 TP 070 MP 431 Th 7390 Th 630 TP 71 TP 120 TP

Gallien, Sebastien	
	TP 650
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Gamage, Chamalee L D	ThP 570
Gambin, Anna	
Gambin, Anna	MD 317
Gamble, Donald	
Gamble, Heather	TP 160
Gamble, Kim	
Gamble, Lara	
Gamble, Tanya	WP 483
Gamboa da Costa, Goncalo	ThP 712
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Ganapathy, Ramesh	TD 102
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Gao, Bei	WP 403
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Gao, Juehan	IP 544
Gao, PengMO	C am 10:10
Gao, PengMC	OC am 10:10 MP 638
Gao, Peng MO Gao, Qiang Gao, Xiaoli	OC am 10:10 MP 638 MP 414
Gao, Peng MO Gao, Qiang Gao, Xiaoli	OC am 10:10 MP 638 MP 414
Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang	OC am 10:10 MP 638 MP 414 ThP 029
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli MC Gao, Yang MC	OC am 10:10 MP 638 MP 414 ThP 029 ThP 009
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu	OC am 10:10 MP 638 MP 414 ThP 029 ThP 009 WP 078
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli MC Gao, Yang MC	OC am 10:10 MP 638 MP 414 ThP 029 ThP 009 WP 078
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yuqian	OC am 10:10MP 638MP 414ThP 029ThP 009WP 078
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian	OC am 10:10MP 638MP 414ThP 029ThP 009WP 078WP 695
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian WC	OC am 10:10MP 638MP 414ThP 029ThP 009WP 078WP 695TP 098 DE pm 02:50
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gao, Yuqian WC Gaquerel, Emmanuel	OC am 10:10MP 638MP 414ThP 029WP 078WP 078WP 098 DE pm 02:50TP 523
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yugan Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa	OC am 10:10MP 638MP 414ThP 029WP 078WP 078WP 695WP 385WP 385
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yugan Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa	OC am 10:10MP 638MP 414ThP 029WP 078WP 078WP 695WP 385WP 385
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yug Gao, Yu Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa	OC am 10:10 MP 638 MP 414 ThP 029 ThP 009 WP 695 TP 098 OE pm 02:50 TP 523 WP 385
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yuq Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garand, Etienne MC MC	OC am 10:10 MP 638 MP 414 ThP 009 WP 695 WP 695 TP 503 WP 385 WP 385
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yuqian Gao, Yuqian WC Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garabedian, Etienne Garate, Jone MC	OC am 10:10MP 638MP 414ThP 009WP 695WP 695TP 523WP 386WP 386WP 386WP 386WP 386WP 386WP 386WP 386WP 386
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yun Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garand, Etienne MC Garate, Jone Garate, Jone	OC am 10:10MP 638MP 414ThP 029TP 098WP 695TP 523WP 386WP 386WP 386WP 113MP 280
Gao, Peng MC Gao, Qiang MC Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yuqian Gao, Yuqian WC Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garabedian, Etienne Garate, Jone MC	OC am 10:10MP 638MP 414ThP 029TP 098WP 695TP 523WP 386WP 386WP 386WP 113MP 280
Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Yu Gao, Ho Gao, Ho Gao, Ho Gao, Ho Gao, Ho Gao, Ho Gao, Ho Gao, Ho Garabedian, Alyssa Garabedian, Alyssa Garand, Etienne Garate, Jone Garate, Jone Garate, Jone	OC am 10:10
Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Harian Gao, Harian Gao, Harian Garabedian, Alyssa Garand, Etienne Garate, Jone	OC am 10:10MP 638MP 414ThP 029WP 078WP 695TP 098WP 385WP 385WP 386 OH pm 03:30ThP 113MP 280ThP 484MP 488
Gao, Peng MC Gao, Qiang MC Gao, Qiang Gao, Yang Gao, Yang Gao, Yang Gao, Yuqian Gao, Yuqian Gao, Yuqian WC Gaquerel, Emmanuel Garabedian, Alyssa Garabedian, Alyssa Garabedian, Etienne Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garcia, Benjamin Garcia, Benjamin	OC am 10:10MP 638MP 414ThP 029WP 078WP 078WP 695TP 503YP 385WP 385WP 386 OH pm 03:30ThP 113MP 280ThP 488MP 488
Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Harian Gao, Harian Gao, Harian Garabedian, Alyssa Garand, Etienne Garate, Jone	OC am 10:10MP 638MP 414ThP 029WP 078WP 078WP 695TP 503YP 385WP 385WP 386 OH pm 03:30ThP 113MP 280ThP 488MP 488
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Gao, Peng	OC am 10:10
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Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian MC Gao, Yuqian MC Gaquerel, Emmanuel Garabedian, Alyssa Garahedian, Alyssa Garahedian, Alyssa Garahe, Jone Garate, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin	OC am 10:10MP 638MP 414ThP 029WP 078WP 695TP 098WP 385WP 385WP 386WP 386WP 387WP 562WP 157
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Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yung Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin Garcia, Benjamin	OC am 10:10
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Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yugian Gao, Yuqian Gao, Harian Garabedian, Alyssa Garabedian, Alyssa Garabedian, Alyssa Garand, Etienne Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garata, Benjamin Garcia, Benjamin	OC am 10:10
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Gao, Peng MC Gao, Qiang Gao, Xiaoli Gao, Yang Gao, Yang Gao, Yu Gao, Yu Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Gao, Yuqian Garabedian, Alyssa Garabedian, Alyssa Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Jone Garate, Benjamin Garcia, Benjamin	OC am 10:10
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Gibbs, Phillip	
Giblin, Daryl	
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Giblin, Daryl	WP 209
Giblin, Daryl	
Gibson, Bradford	
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Gidden, Jennifer	
Giddings, Sabrina	
Giedroc, David Gieras, Anna	MP 553
Gies, Anthony	
Gieschen, Andy	
Gieschen, Andy	
Giese, Noah	MP 113
Giffen, Justine	
Giffen, Justine	TP 238
Gigmes, Didier	
Gigolyk, Baylie Gike, Keegan	
Gil, Geuncheol	
Gil, Geuncheol	
Gil, Geuncheol	WP 638
Gilani, Asra	MP 117
Gilar, Martin	
Gilardoni, Stefania	
Gilbert, Jeffrey	MP 430
Gilbert, Jeffrey Gilbert, Jeffrey	1P 343
Gilbert, Jeffrey	ThP 308
Gilbert, Jeffrey	TOB pm 02:50
Gilbert, Joshua	ThP 613
Gilbert, Joshua	ThOC pm 03:10
Gilbert, Joshua	TOH pm 02:50
Gilbert, Thomas	
Gilchrist, Michael	TD 260
O'Ultra Libra	
Gildea, John	TP 563
Giles, Kevin	TP 563 MP 366
Giles, KevinGiles, Kevin	TP 563 MP 366 MP 135
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Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin.	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 376 WP 361 MP 361 MP 347
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347
Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin. Giles, Kevin.	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Roger Gill, Christopher Gill, Emily	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 ThP 445
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Roger Gill, Christopher Gill, Emily Gill, Emily Gill, Kanwaldeep. Gilles, Christopher	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 445 TP 166 TP 182
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 386 WP 361 MP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 166
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Koristopher Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 167
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kovin Giles, Kovin Giles, Kovin Giles, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 ThP 445 TP 166 TP 182 TP 107 WP 519 ThP 284
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Christopher Gill, Emily Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Kent	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 MP 367 MP 367 MP 367 MP 166 TP 166 TP 182 TP 170 WP 519 ThP 284 ThP 418
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Koristopher Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas	TP 563 MP 365 MP 165 TP 038 TP 385 TP 391 WP 376 WP 386 MP 137 WP 25 WP 405 Th 445 TP 166 TP 182 TP 107 WP 517 Th 284 ThP 284 ThP 418
Giles, Kevin Giles, Christopher Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilleste, Martha Gillig, Kent Gilmore, Jason	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 107 WP 519 ThP 284 ThP 418 WP 671 ThP 316
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Koper Gill, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilleste, Martha Gillig, Kent Gilman, Robert. Gilmore, Ian Gilmore, Jason Gil-Santos, Eduardo	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 376 WP 361 MP 347 WP 025 WP 405 ThP 445 TP 166 TP 182 TP 107 WP 519 ThP 284 ThP 418 WP 671 ThP 316
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Koper Gill, Emily Gill, Emily Gill, Emily Gill, Emily Gill, Emily Gilles, Christopher Gill	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 ThP 445 TP 166 TP 182 TP 107 WP 519 ThP 284 ThP 418 WP 671 WP 671 WP 671 MP 316
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Giles, Kevin Giles, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Nicol	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 107 WP 519 ThP 284 ThP 448 WP 671 ThP 316 WOA am 08:30 MP 574 ThP 184 TP 184 TP 184 TP 187
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Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Colles Giles, Colles Giles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Maruba Gilles	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 107 WP 519 MP 316 WP 316 WP 519 ThP 284 ThP 418 ThP 418 WP 671 ThP 316 TP 182 TP 170 ThP 316 TP 284 ThP 418 WP 671 ThP 316 WOA am 08:30 MP 574 ThP 184 TP 287 ThP 184 TP 287 ThP 184 TP 287 ThP 184 TP 287 ThP 184 TP 287 ThP 488 TP 289 ThP 484 WP 702 MP 700
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Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Roger Gill, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilleste, Martha Gillig, Kent Gilmore, Ian Gilmore, Jason Gil-Santos, Eduardo Gilston, Benjamin Gimbert, Yves Gimbert, Yves Gimbert, Yves Giménez-Lirola, Luis Gimon-Kinsel, Mary Elizabeth Ginard, Daniel Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude Gingras, Anne-Claude	TP 563 MP 366 MP 135 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 MP 347 WP 025 WP 405 ThP 445 TP 166 TP 182 TP 170 WP 517 MP 517 WP 517 WP 517 ThP 316 WOA am 08:30 MOG am 08:30 MP 574 ThP 484 TP 267 ThP 484 TP 267 ThP 484 TP 267 ThP 484 TP 27 ThP 484 TP 287 ThP 484 TP 289 TP 484 WP 702 MP 700 TP 139 ThP 345 WP 718
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Korin Giles, Korin Giles, Roger Gill, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas Gilles, Nicolas G	TP 563 MP 365 MP 365 TP 038 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 ThP 445 TP 166 TP 182 TP 107 WP 519 ThP 284 ThP 418 WP 671 ThP 316 WOA am 08:30 MOG am 08:30 MOG am 08:30 MF 574 ThP 184 TP 267 ThP 184 TP 287 ThP 189 TP 189 TP 189 TP 189 TP 189 TP 180 TP 190 MP 700 TP 139 ThP 345 WP 718 TP 010
Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Kevin Giles, Christopher Gill, Emily Gill, Kanwaldeep Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles, Christopher Gilles, Nicolas Gilles	TP 563 MP 366 MP 135 TP 038 TP 985 TP 385 TP 391 WP 376 WP 384 ThP 416 WP 361 MP 347 WP 025 WP 405 TP 166 TP 182 TP 167 WP 519 ThP 284 ThP 418 WP 671 ThP 316 WOA am 08:30 MP 574 ThP 184 TP 126 TP 182 TP 17 ThP 316 WOA am 08:30 MP 574 ThP 184 TP 267 ThP 484 WP 702 MP 700 TP 139 ThP 345 WP 718 TP 119 ThP 345 WP 718 TP 010 MOD am 09:50 MP 464 TP 332
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Girard, Victoria		Gómez-Ríos, Germán		Gozzo, Fabio	
Girault, Hubert		Gong, Chao		Gozzo, Fabio	
Girod, Marion		Gong, Fuzhou		Graban, Eric	
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Giron, Mirna		Gong, Meng		Grabowski, Piotr	
Giuliani, Alexandre		Gong, Xiaoyun		Grabsch, Heike	
Giuliani, Alexandre		Gong, Zhilong		Graham, Daniel	
Gizzi, Michael		Gongar, Christopher	MP 011	Graham, James	TP 077
Gizzi, Michael	TP 225	Gonin, Marc	TP 230	Graham, James	WP 571
Gjelstad, Astrid	MP 050	Gonthier, Renaud	MOA pm 03:50	Graham, Kevin	ThP 573
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Glaros, Trevor		Gonzalez, David		Graham, Robert	
Glaskin, Rebecca		Gonzalez, David		Graham, Robert	
Glaskin, Rebecca		Gonzalez, Gwendolyn		Graham, Steve	
Glasner, Heidelinde		Gonzalez, Isabel		Granger, Donald	
Glazier, John		Gonzalez, Raymond		Grant, Chris	
Glazko, Galina		Gonzalez, Raymond	MP 047	Grant, Jennifer	SuP 002
Glen, Robert	TOA pm 02:30	González, Miguel A	ThP 682	Grant, Lois	ThP 453
Glish, Gary	MP 183	González Rivera, Alba Katiria.	MP 401	Grant, Russell	ThP 028
Glish, Gary	MP 379	Gonzalez-Ericsson, Paula	TOC pm 02:30	Grant, Russell	TP 645
Glish, Gary	MP 415	González-Jaime, Luis	WP 277	Grant, Russell	MOA pm 03:30
Glish, Gary		Gonzalez-Lozano, Miguel		Grasselli, Cristiane	
Glish, Gary		Goo , Young Ah		Grassetti, Andrew	
Glish, Gary		Goodlett, David		Grassetti, Andrew	
Glish, Gary		Goodlett, David		Grassi, Mariana	
Glish, Gary		Goodlett, David		Graumann, Johannes	
Glish, Gary		Goodlett, David		Graupner, Paul	
Glocker, Michael O	ThP 608	Goodlett, David	WP 490	Graves, Lee	WP 583
Gloeckner, Christian	ThP 060	Goodlett, David	WP 491	Gray, Bob	MP 226
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Glover, Matthew		Goodlett, David		Gray, Nicola	
Glover, Matthew		Goodley, PAUL		Grayson, Scott M	
Glover, Matthew		Goodman, Keith		Greco , Todd	
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Go, Eden		Goodman, Keith		Greco, Todd	
Go , Eden		Goodman, Keith		Green, Martin	
Gobburi, Ashta Lakshmi Prasad		Goodman, Kelli		Green, Martin	
Gobert, Alain	WP 054	Goodwin, Michael	MP 026	Green, Martin	TP 383
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Godfrey, Jack		Goodwin, Richard		Green, Michael	
Godfrey, Jamie		Goodwin, Richard		Greenberg, Miriam	
Godinho, Justin		Goodwin, Richard		Greenberger, Joel	
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Goecker, Zachary		Gooley, Andrew		Greene, Elizabeth	
Goedecke, Niels		Goonatilleke, Elisha		Greene, Michelle	
Goedecke, Niels		Gordillo, Ruth		Greenwalt, Scott	
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Gois, Tamiris		Gorshkov, Mikhail		Greer, Joseph	
Gois, Tamiris		Gorshkov, Vladimir		Greer, Joseph	
Golde, Justin		Gorshkov, Vladimir		Greer, Sylvester	
*		· ·		Greer, Sylvester	
Goldfarb, Dennis		Gorton, Rebecca			
Goldman, Aaron		Goshe, Michael		Gregor, Aurelien	
Goldman, Radoslav		Goswami, Devrishi		Gregorich, Zachery	
Goldmann, Torsten		Goswami, Sumit		Gregorich, Zachery	
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Goli, Mona		Gotlib, Zachary	ThP 387	Grenier, Ana Celia	
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Gollapalli, Kishore		Goto-Silva, Livia		Griesinger, Hans	
Gollnick, Paul		Gotta. Stefano		Griffin, Jules	
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Gombart, Adrian		Gotta, Stefano		Griffin, Julian	
Gomer, Richard		Gotta, Stefano		Griffin, Julian	
Gomes, Bruno		Gotta, Stefano		Griffin, Patrick	
Gomes, Fabio	TP 655	Götz, Christian	ThP 156	Griffin, Patrick	ThP 214
Gomez, Christopher	MP 603	Goulding, Scott	ThP 689	Griffin, Patrick	ThP 221
Gomez, Marcus	WP 568	Gourdine, Jean-Philippe	WP 436	Griffin, Patrick	WP 257
Gomez, Sonia		Gouthu, Satyanarayana		Griffin, Patrick	
Gomez-Rios, German		Govaert, Elisabeth		Griffin, Tim	
Gomez-Rios, German		Govaert, Elisabeth		Griffin, Tim	
Gomez-Rios, German		Govender, Katya		Griffin, Tim	
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Gomez-Rios, German Augusto.		Gowda, G. A. Nagana		Griffin, Timothy	
Gomez-Rios, German Augusto.	MP 013	Gowda, G. A. Nagana	ThP 505	Griffin, Timothy	WP 333

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Griffiths, Rian	
Grimes, H	TP 596
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Gritsenko, Marina	WP 669
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Groseclose, Reid	
Gross, Michael	
Gross, Michael	TP 040
Gross, Michael	ThP 063
Gross, Michael	
Gross, Michael	
Gross, Michael	ThP 213
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Gross, Michael	
Gloss, Michael	VVF 200
Gross, Michael	
Gross, Michael	ThP 574
Gross, Michael	
Gross, Michael	ThD 621
Gross, Michael	
Gross, Michael	. MOE pm 03:50
Gross, Michael	
Ologo, Michael	
Grace Stoven	
Gross, Steven	MP 519
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Gross, Steven	MP 519ThP 124MOC am 08:30WP 439ThP 685MP 492MP 265MP 213TP 389TP 257TP 258MP 253
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393
Gross, Steven	MP 519 ThP 124 MOC am 08:30 WP 402 WP 439 ThP 685 MP 265 MP 213 TP 389 TP 257 TP 258 MP 253 TP 393 MP 038
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Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 492MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 383WP 341WP 344
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10TP 048
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 439ThP 685MP 492MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344WO am 10:10TP 048WO A pm 02:30
Gross, Steven	MP 519 ThP 124 MOC am 08:30 WP 402 WP 439 ThP 685 MP 492 MP 265 MP 213 TP 257 TP 258 MP 253 TP 393 MP 038 WP 341 WP 341 WP 344 WOG am 10:10 TP 048 WOA pm 02:30 ThP 271
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 492MP 265MP 213TP 389TP 257TP 258MP 253MP 038WP 341WP 344 WOG am 10:10TP 048WOA pm 02:30ThP 271TOD am 10:10
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10TP 048WO J m 10:10TOD am 10:10
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10TP 048WO J m 10:10TOD am 10:10
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 439MP 492MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10TP 048WOA pm 02:30ThP 271TOD am 10:10MP 205WP 305MP 205
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 034WP 344WP 344WO am 10:10TP 048WOA pm 02:30ThP 271TOD am 10:10MP 205WP 305WP 305TO am 10:10MP 205WOA am 10:10TP 084
Gross, Steven	MP 519 ThP 124 MOC am 08:30 WP 402 WP 439 ThP 685 MP 492 MP 265 MP 213 TP 257 TP 258 MP 253 TP 393 MP 038 WP 341 WP 344 WOG am 10:10 TP 048 WOA pm 02:30 ThP 271 TOD am 10:10 MP 205 WOA am 10:10 TP 084 WOA am 10:10 TP 084
Gross, Steven	MP 519
Gross, Steven	MP 519
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 265MP 257TP 389TP 258MP 253TP 393MP 384WP 344WP 344WP 344WP 344WP 344WP 344WP 340Th 271TOD am 10:10MP 205WOA am 10:10TP 084TP 152WP 482WOA pm 02:50
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Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 439WP 439MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 341WP 344 WOG am 10:10TP 048WOA pm 02:50MP 205WP 317TOD am 10:10TP 084TP 152WP 482WOA pm 02:50TP 718WP 482WOA pm 02:50TP 718WP 482
Gross, Steven	MP 519
Gross, Steven	MP 519
Gross, Steven	MP 519
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 213TP 389TP 257TP 258MP 253TP 393MP 344WP 345WOA pm 02:30ThP 271TOD am 10:10MP 205WOA am 10:10TP 048WP 482WP 482WOA pm 02:50TP 718MP 148WP 478ThP 505WP 399
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 038WP 344WP 344WP 344WP 344WP 344WP 344WP 344WP 346WOA pm 02:50MP 205WOA am 10:10TP 084TP 152WP 482WP 478TP 152WP 482WOA pm 02:50TP 718MP 148WP 478TP 505WP 399ThP 115
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 033WP 344WP 344WP 344WP 344WOA pm 02:30Th 271TOD am 10:10TP 084TP 152WP 482WOA pm 02:50TP 718MP 148WP 478TP 159TP 159TP 159TP 259
Gross, Steven	MP 519ThP 124 .MOC am 08:30WP 402WP 439ThP 685MP 265MP 213TP 389TP 257TP 258MP 253TP 393MP 033WP 344WP 344WP 344WP 344WOA pm 02:30Th 271TOD am 10:10TP 084TP 152WP 482WOA pm 02:50TP 718MP 148WP 478TP 159TP 159TP 159TP 259
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Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 322TP 672TP 610 am 10:10ThP 033
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610 am 10:10ThP 033
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 565TP 672TP 610 am 10:10ThP 033WP 477WP 477
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 5672TP 672TP 610 am 10:10ThP 033WP 477TP 325WP 327
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 564TP 322TP 610 am 10:10ThP 033WP 477TP 325WP 325
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 662TP 322TP 322TP 323WP 475TP 325TP 325TP 325
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 610 am 10:10ThP 033WP 477TP 325TP 327TP 325TP 235WP 043
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610 an 10:10ThP 033WP 477TP 325TP 327TP 325TP 327TP 327TP 328
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 565TP 672TP 672TP 610 am 10:10ThP 033WP 477TP 325TP 327TP 235TP 235WP 043WP 043
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 610 am 10:10ThP 033WP 477TP 235WP 477TP 235WP 043WP 083TP 016MP 506WP 038
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 672TP 610 am 10:10ThP 033WP 477TP 325WP 043WP 083TP 016MP 506MP 506
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 610 am 10:10ThP 033WP 477TP 325TP 325TP 235WP 043WP 083TP 016MP 506
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 322TP 610 am 10:10TP 325TP 325TP 327TP 325TP 327TP 326TP 327TP 328WP 477
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 672TP 610 am 10:10TP 325TP 325TP 327TP 325TP 327TP 326TP 327TP 328WP 477TP 325TP 327TP 327TP 325TP 327TP 327TP 328WP 043TP 016WP 038TP 016MP 506WP 140TP 617MP 593 pm 03:10
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 672TP 610TP 632TP 610TP 325TP 327TP 235WP 477TP 235WP 043WP 043TP 016MP 506WP 038TP 016MP 506WP 038TP 617TP 617TP 617TP 618TP 619TP 619TP 619TP 6110TP 6110
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 610 am 10:10ThP 033WP 477TP 235WP 043WP 043TP 016WP 083TP 016WP 083TP 617MP 506WP 038MP 140TP 617MP 593MP 593MP 593MP 593TP 617TP 6183
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 672TP 322TP 610 am 10:10ThP 033WP 477TP 325WP 043WP 043WP 083TP 016MP 506WP 038MP 140TP 617MP 593 pm 03:10ThP 112TP 613TP 617TP 12683ThP 456
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610 am 10:10 am 10:
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610 am 10:10TP 325TP 327TP 327TP 325TP 327TP 327TP 327TP 327TP 327TP 327TP 327TP 647MP 506MP 508TP 617MP 593 pm 03:10ThP 112TP 683TP 683TP 466
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 672TP 610 am 10:10ThP 033WP 477TP 325TP 327TP 325WP 043WP 043TP 616WP 083TP 016MP 506WP 038TP 112TP 617TP 618TP 619TP 619TP 619TP 619TP 619TP 619TP 619TP 630TP 456TP 203TP 456TP 456TP 456TP 456TP 456TP 456TP 203
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 672TP 610 am 10:10ThP 033WP 477TP 325WP 043WP 043WP 043WP 083WP 083WP 083TP 016MP 506WP 084TP 617TP 617TP 618TP 619TP 619
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610TP 322TP 610TP 325WP 477TP 325WP 477TP 325WP 043WP 083TP 016MP 506WP 088TP 617MP 593 pm 03:10ThP 112TP 617TP 203TP 456TP 456TP 456TP 456TP 456TP 456TP 456TP 617
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 564TP 565TP 672TP 322TP 610TP 325TP 327TP 325TP 327TP 325TP 325TP 327TP 325TP 327TP 325TP 327TP 325TP 327TP 325TP 327TP 325TP 617MP 508WP 043WP 043WP 043TP 617MP 593 pm 03:10ThP 112TP 683TP 683TP 203TP 466TP 203TP 466TP 203TP 466TP 660WP 336
Gummer, Joel	TP 346WP 443ThP 596TP 601MP 660TP 358WP 475ThP 110TP 565TP 672TP 322TP 610 am 10:10TP 333WP 477TP 325TP 327TP 325WP 043WP 477TP 356WP 043WP 043TP 166WP 038TP 166WP 140TP 617TP 617TP 617TP 618TP 619TP 619

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Guo , Xu	TP 073
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Gupta, Himani	TP 480
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Curaviah Mayov	VVF 101
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Guthke, Reinhard	
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Gutierrez, Craig	
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Gutierrez, Danielle	WP 716
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Gutierrez, Gerardo	
Gutierrez, Joshua	
Guttikar, Swati	
Guttman, Andras	
Guttman, Miklos	
Guttman, Miklos	
Guyer, Kendall	
Gygi, Steve	
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Gygi, Steven	MP 642
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Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gyimah, Boakye Ha, Miyoung	TP 643WP 719TOC am 08:50TOC pm 03:30WP 481
Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gyimah, Boakye Ha, Miyoung Ha, Yeyoung	TP 643WP 719TOC am 08:50TOC pm 03:30WP 481WP 495MOG pm 03:50
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Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gyinah, Boakye Ha, Miyoung Ha, Yeyoung Haabeth, Ole Haack, Alexander	TP 643WP 719TOC am 08:50TOC pm 03:30WP 481WP 495MOG pm 03:50ThP 669MP 245
Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gyimah, Boakye Ha, Miyoung Ha, Yeyoung Haabeth, Ole	TP 643WP 719TOC am 08:50TOC pm 03:30WP 481WP 495MOG pm 03:50ThP 669MP 245ThP 025
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Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gygi, Steven Gyimah, Boakye Ha, Miyoung Ha, Yeyoung Haabeth, Ole Haack, Alexander Haag, Anthony Haag, Anthony Haapala, Markus Haasnoot, Willem Habchi, Baninia	TP 643WP 719TOC am 08:50
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Hall, Deborah	
Hall, Eric	
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Hamaide, JulieThOF	
Hamani, ClementMOC	
Hamblin, D'Nisha	
Hamdy, Omar	
Hamid, Ahmed	
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Hartmann, Nele Hartmann, Rafael Hartnett, James Hartungen, Eugen Haruta, Miyoshi Harvey, Alex Harvey, Sophie Hasan, Zachariah Hase, Prashant Hase, Prashant Hase, Prashant Hase, Prashant Hase, Takeshi Haseeb, Abid Hasegawa, Atsuko Haselmann, Kim Haserick, John Hashi, Yuki Hashimoto, Kei Hashimoto, Yutaka Haskins, William Haskins, William Haskins, William Haskan, Waleed Hassan, Tahmid Hassan, Waleed Hassell, Kerry Hasserick, John Hata, Kosuke Hatabayashi, Kunitada Hatcher, Dave Hatcher, Dave		TPMPMPMPMPMPTPTPTPTPTPTPTPTPTPTPTPTPTPMPTPTPMPTPMPTPMPTPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMP	425 032 401 366 064 253 622 188 170 280 221 235 622 161 525 044 637 647 647 647 647 647 647 647 647 647 64
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Hartmann, Nele Hartmann, Rafael Hartnett, James Hartungen, Eugen Haruta, Miyoshi Harvey, Alex Harvey, Sophie Hasan, Zachariah Hase, Prashant Hase, Prashant Hase, Prashant Hase, Prashant Hase, Alex Haseb, Abid Hasegawa, Atsuko Hasegawa, Atsuko Haselmann, Kim Haserick, John Hashimoto, Kei Hashimoto, Yutaka Haskins, Christopher Haskins, William Haskins, William Haskins, William Haskins, William Hassan, Tahmid Hassan, Tahmid Hassan, Waleed Hassell, Kerry		TPTPTNPTNPTP	425 425 401 366 425 637 625 625 625 625 625 625 637 635 635 635 635 635 635 635 635
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Hauberg-Lotte, Lena		Heck, Albert		Hendrickson, Christopher	
Haulenbeek, Jonathan		Heck, Albert		Hendrickson, Christopher	
Haung, Jiansheng		Heck, Albert		Hendrickson, Christopher	
Haura, Eric		Heck, Albert		Hendrickson, Christopher	
Haura, Eric		Heck, Albert		Hendrickson, Christopher	
Hauser, Melinda		Heck, Albert		Hendrickson, Christopher	•
Hautbergue, Thaïs		Heck, Albert		Hendrickson, Christopher	
Hautman, Mathew		Heck, Albert		Hendrickson, Christopher	•
Havelund, Rasmus		Heck, Albert		Hendriks, Ivo	
Haverland, Nicole		Heckendorf, Christian		Heninger, Michel	
Haverland, Nicole		Heckendorf, Christian		Henion, Jack	
Haverland, Nicole		Heckendorf, Christian		Henkel, Corinna	
Havis, Spencer	WP 507	Hecker, Markus	MP 281	Hennecken, Marius	MP 118
Havis, Spencer		Heckert, Alan	MP 419	Hennermann, Julia	
Havis, Spencer	WP 510	Heckert, Alan	WOD am 09:10	Henning, Barbara	WP 703
Havlicek, Vladimir	MP 119	Hectors, Tine	WOF pm 02:30	Henning, Karla	MP 565
Hawkes, Jeffrey	WP 148	Hedge, Maruti	WP 625	Henry, Amber	MP 393
Haxo, Ted	MP 080	Hedrick, Victoria	MP 544	Henry, Amber	WP 238
Hayakawa, Yoshihiro	TP 211	Hedström, Martin	TP 061	Henry, Hugues	ThP 653
Hayakawa, Yoshihiro	MP 448	Hee, Daryl	ThP 079	Henry, Ryan	WP 149
Hayakawa, Yoshihiro	MP 455	Heegaard, Niels	MP 031	Hensbergen, Paul	WP 498
Hayashi, Masahiro	ThP 356	Heeren, Ron	MP 118	Hensley, Kenneth	WP 587
Hayashi, Yumi	WP 002	Heeren, Ron	TP 334	Henstra, Anne	MP 492
Hayashi, Yumi	WP 003	Heeren, Ron	MP 306	Henstra, Anne	ThP 229
Hayden, Mary	MP 489	Heeren, Ron	MP 307	Heo, Seok	MP 209
Haynes, Christy	WP 545	Heeren, Ron	WP 281	Hera, David	ThP 148
Haynes, Kim		Heeren, Ron	WP 283	Herath, Kithsiri	TP 213
Haynes, Paul	MP 543	Heeren, Ron		Herbig, Jens	
Haynes, Sarah		Heeren, Ron	WP 292	Heredia-Langner, Alejandro	
Hayoun, Deborah	ThOE am 10:10	Heeren, Ron	WP 300	Herington, Jennifer	MP 308
Hayter, Laura		Heeren, Ron	MOG am 09:10	Herke, Scott	
Hayter, Laura		Heeren, Ron	TP 489	Hermann, Gerrit	WP 394
Hayward, Mark		Heeren, Ron		Hermann, Gerrit	
Hayward, Mark J		Heeren, Ron	•	Hermann, Gerrit	
Hayward, Nicholas		Heeren, Ron		Hermannova, Martina	
Hayworth, Joel		Heffernan, James		Hermannova, Martina	
Hazama, Hisanao		Heffeter, Petra		Hernandez Alba, Oscar	
Hazama, Hisanao		Hegeman, Adrian		Hernandez-Barry, Hilda	
Hazama, Hisanao		Hegmanns, Christian		Herniman, Julie	
Hazebroek, Jan		Heidbrink Thompson, Jenny		Hernychova, Lucie	
He, Chenchen		Heidelberger, Sibylle		Herold, David	
He, Chenchen		Heidelberger, Sibylle		Herren, Anthony	
He, Huixin		Heidelberger, Sibylle		Herrera, Kristina	
He , Jing		Heidelberger, Sibylle		Herring, Laura	
He, Jintang		Heidemann, Johannes		Herrmann, Christin	
He, Lidong		Heien, Michael		Herschend. Jakob	
He, Lidong		Heikenwälder, Mathias		Herting, Katherine	
He, LIN		Heiles, Sven		Herting, Katherine	
He, Lin		Heiling, Sven		Hertzog, Jasmine	
He, Lin		Heim, David		Hervey, W	
He, Muyi		Heim, David		Hervey, IV, William Judson	
He, Muyi		Heine, Nadja		Hervey, IV, William Judson	
He, Qing		Heintze, Christoph		Herzog, Ronny	
He, Shenggui		Heinze, Sten		Hesketh, Geoffrey	
He, Shisi		Heinze, Sten		Hess, David	
He, SIMIN		Heinzlmeir, Stephanie		Hess, Sonja	
He, Si-Min		Heissel, Søren		Hess, Sonja	
He, Si-Min		Heitmann, Ryan		Hess, Sonja	
He, Si-Min		Held, Jason		Hess, Sonja	
He, Si-Min		Helle, Niklas		Hesse, Anne-Marie	
He, Tianyu		Heller, Rexford		Hesse, Anthony	
He, Xiang		Hellinger, Jessica		Hettich, Robert	
He, Xiaomei (Annie)		Helm, Dominic		Hettich, Robert	
Heacock, Wayne		Helm, Sarah		Hettich, Robert	
Heath, Nikki		Helmy, Roy		Hettich, Robert	
Heaven, Michael		Helmy, Roy		Hettich, Robert	
Hebeler, Romano		Helmy, Roy		Hettich, Robert	
Hebert, Alex		Hembree, Amy		Hettich, Robert	
Hebert, Alex		Hembrough, Todd		Hettich, Robert	
Hebert, Alex		Hembrough, Todd		Hettich, Robert	
Hebert, Alexander		Hembrough, Todd		Hettich, Robert	
		G 1		Hettich, Robert	
Hebert, Alexander Hebert, Michael		Hemenway, Eric		Hettick, Justin	
		Henao Diaz, Yuly			
Hecht, Elizabeth		Henderson, Fiona		Hettick, Justin M Heuberger, Adam	
	TD 407			ABRICALIST ACIDIT	IVIOLE SILL OS.30
	TP 127	Henderson, Fiona			
Hecht, Elizabeth	TP 411	Henderson, Fiona	ThP 485	Heuberger, Adam	WOB am 09:50
Hecht, Elizabeth Hecht, Elizabeth	TP 411 TP 417	Henderson, Fiona Henderson, James	ThP 485 MP 154	Heuberger, Adam Heunis, Tiaan	WOB am 09:50 WP 664
Hecht, Elizabeth	TP 411 TP 417 ThP 039	Henderson, Fiona	ThP 485 MP 154 TP 259	Heuberger, Adam	WOB am 09:50 WP 664 WOA am 10:10

Hewitt, Darren	MP 371	Hoetker, David	TP 710	Hoppe-Jones, Christiane	ThP 155
Hewitt, Lindsay		Hoffman, Ann		Hoppe-Jones, Christiane	
Heyman, Heino		Hoffman, Nathan		Hord, Norman	
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Heyn, Kristina		Hoffman, Nathan		Horkovics-Kovats, Gabriel	
Heywood, David		Hoffman, Nathan		Horn, David	
Heywood, David		Hoffmann, Magnus		Horn, David	
Hibbard, Hailey		Hoffmann, Waldemar		Horn, David	
Hickenlooper, Samuel	WP 221	Hoffmann, William	MP 359	Horn, Marissa	
Hickenlooper, Samuel	WP 222	Hoffmann, William	TP 428	Horner, Jonathan	MP 195
Hickey, Mike	ThOF am 08:50	Hofmann, Bettina	ThP 480	Horner, Jonathan	TP 185
Hickox, Ann	TP 603	Hofmann, Tommy	TP 478	Horner, Jonathan	TP 194
Hicks, Leslie	WP 116	Hogan, Jason	TP 071	Horning, Stevan	ThP 613
Hicks, Leslie		Hogan, Joanna		Horovitz, Amnon	
Hicks, Leslie		Hogan, John		Horowitz-Gelb, Max	
Hicks, Leslie		HogenEsch, Harm		Horres, Ralf	
Hicks, Leslie		Hogrebe, Alexander		Hosali, Sharath	
Hicks, Leslie M		Hogrebe, Alexander		Hosfield, Chris	
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Hidalgo, August		Højrup, Peter		Hosfield, Chris	
Hierro, Cinta		Højrup, Peter		Hosp, Fabian	
Hieta, Juha-Pekka		Hokke, Cornelis		Hossain, Ekram	
Higashi, Richard		Holden, Dustin		Hossen, Md Amir	
Higashi, Richard	WP 400	Holden, Dustin	WP 213	Hossen, Md Amir	TP 429
Higgins, Leeann	MP 634	Holden, Dustin	TOG pm 03:30	Hossen, Md Amir	TP 500
Higgins, Rehan	MP 481	Holder, Brian	TP 153	Hoti, Naseruddin	TP 299
Higgins, Rehan		Holdsworth, Catherine	MP 135	Höti, Naseruddin	TP 108
Higgs, Jessica		Holewinski, Ronald		Hou, Guixue	
Hildebrand, William		Holland, Patricia		Hou, Hongwei	
Hildenbrand, Zacariah		Holland, Patricia		Hou, Jian	
Hildenbrand, Zacariah		Hollard, Chris		Hou, Junjie	
Hilder, Emily F.,		Hollender, Juliane		Hou, Keyong	
Hilger, Ryan		Hollenstein, David		Houde, Damian	
		Hollerbach, Adam		*	
Hilhorst, Martijn				Houel, Stephane	
Hill, Bryan		Hollerbach, Adam		Houel, Stephane	
Hill, Jacob		Hollerbach, Adam		Houel, Stephane	
Hill, James		Holliday, Alison		Houel, Stephane	
Hill, Robert		Hollidge, Bradley	MP 292	Houel, Stephane	
Hill, Salisha	WP 716	Holliman, Chris	TP 462	Houel, Stephane	TP 667
Hill, Salisha	TP 446	Holman, Jerry	TP 506	Houel, Stephane	TP 677
Hillegas, Judith	MP 671	Holmbjerg, Anne	WP 646	Houghton, Sonia	MP 421
Hillen, Robin	TP 425	Holmes, Andrew	WP 554	Houk, Robert	ThP 294
Hilliard, Mark	TP 137	Holmes, Elaine		Hourdel, Véronique	
Hinckley, Samantha		Holmes, Xavier		House, Alisha	
Hinckley, Samantha		Holmquist, Melody		Houser, Whitney	
Hines, Kelly		Holsen, Thomas		Houten, Sander	
Hines, Kelly		Holt, Mathew		Hovasse, Agnès	
Hines, Kelly		Holzlechner, Matthias		Howard, Eric	
Hinners, Paige		Honarvar, Elahe		Howbert, J	
Hinners, Paige		Honarvar, Elahe		Howell, Caitlin	
Hinz, Christine		Honarvar, Elahe		Hoyes, Emmy	MP 352
Hinz, Christine	ThP 341	Hondius, David	ThP 670	Hoyes, Emmy	TP 029
Hioki, Yusaku	ThP 050	Hondo, Toshinobu	MOG am 09:50	Hoyes, Emmy	WP 311
Hirai, Masami	MP 448	Höner, Martin	MP 344	Hoyes, Emmy	WP 276
Hiramatsu, Yoshiro	MP 263	Hong, Angela	TP 482	Hoyes, Emmy	ThP 595
Hirano, Ichiro	ThP 088	Hong, Hui	TP 684	Hoyes, Emmy	MP 435
Hirano, Ichiro		Hong, Jie		Hoyes, John	
Hirano, Ichiro		Hong, Pengyu		Hsiang, Erh-Hsuan	
Hirano, Ichiro		Hong, Qiuting		Hsiao, Chao-Yu	
Hirose, Kenji		Hong, Qiuting		Hsiao, Chih-Hao	
Hirose, Tsunehisa				Hsiao, He-Hsuan	
Hite, Zachary		Hong, Qiuting Hong, Teresa		Hsiao, He-Hsuan	
		•			
Hite, Zachary		Hood, Brian		Hsiao, He-Hsuan	
Hites, Ronald A		Hood, Brian		Hsiao, Jordy	
Hnatyshyn, Serhiy		Hoofnagle, Andrew		Hsieh, Hua-Yi	
Hnatyshyn, Serhiy		Hoog, Jeremy		Hsu, Bih-Hsiung	
Ho, Emily	WP 186	Hoogenraad, Casper		Hsu, Bih-Hsiung	
Ho, Hui-Yu		Hoogenraad, Casper		Hsu, Cheng-Chih	
Ho, Jonathan	MP 116	Hooijerink, Dick	WOB am 09:10	Hsu, Cheng-Chih	WP 593
Ho, Tricia	MP 552	Hooijschuur, Edwin	TP 065	Hsu, Cheng-Chih	WP 607
Hoang, Khoa		Hoopmann, Michael R		Hsu, Chuan-Chih	WP 042
Hoar, Jason		Hoopmann, Michael R		Hsu, Chuan-Chih	
Hobby, Gerren		Hooshfar, Shirin		Hsu, Chuan-Chih	
Hoch, Kathleen		Hooton, Kevin		Hsu, Hsu Chen	
Hoch, Kathleen		Hoover, Haley		Hsu, Jen-Yi	
				Hsu, Kuo-Hsiu	
Hochalter, J.		Hooyberghs, Jef			
Hochalter, Jon		Hoozemans, Jeroen		Hsu, Pang-Hung	
Hochart, Guillaume		Hopf, Carsten		Hsu, Ping-Ching	
Hoegg, Edward		Hopkinson, Alan		Hsu, Ren-Yu	
Hoegg, Edward		Hopkinson, Alan		Hsu, T	
Hoellien, Timothy	ThP 159	Hopkinson, Alan	ThP 516	Hsu, Wei-Jhe	TP 370

Her Wen Lien	TD 270	Hudrana Joffroy M	WD 262	Humber Kovin	ThD 250
Hsu, Wen-Lian Hsu, Wen-Lian		Hudgens, Jeffrey W Hudson, Billy		Hunter, Kevin Huntley, Adam	
Hu, Alex		Hudson, Frederick		Huo, Xinming	
Hu, Anren		Hufnagel, Peter		Hupin, Sébastien	
Hu, Chang-Wen		Hughes, Chris		Huppert, Matthew	
Hu, Chengi		Hughes, Chris		Huppertz, Laura	
Hu, Chengi		Hughes, Christopher		Hurney, Steven	
Hu, Jennifer		Hughes, Sam		Hussain, Ali	
Hu, Junchi		Hughey, Christine A	•	Hussein, Ahmed	•
Hu, Nan		Hughey, Christine A		Hussein, Haytham	
Hu, Qingyuan		Hughey, Christine A		Husson, Gauthier	
Hu, Shaodong	MP 210	Huguet, Romain	MP 701	Huszaugh, Alexander	MP 068
Hu, Shen		Huguet, Romain		Huszaugh, Alexander	
Hu, Yanyang	WOG pm 03:30	Huguet, Romain	WP 075	Hutchins, Paul	WP 404
Hu, Yingwei	TP 299	Huguet, Romain	WP 082	Hutchinson, Carolyn	WP 117
Hu, Yingwei	WP 247	Huguet, Romain	TP 058	Hutchinson, Carolyn	WP 119
Hu, Zhishang		Huguet, Romain	TP 087	Hutchinson, Mark	MP 076
Hu, Zhishang	WP 514	Huguet, Romain	WP 168	Huteau, Alban	MP 192
Hua, David	WP 230	Huguet, Romain	ThP 661	Huteau, Alban	ThP 086
Hua, Serenus	WP 551	Huguet, Romain	ThP 662	Hüttemann, Maik	ThP 467
Hua, Wenyi		Huguet, Romain		Huttenhain, Ruth	
Hua, Yvonne		Huguet, Romain		Hutterli, Manuel	
Hua, Zhendong		Huguet, Romain		Huttlin, Edward	
Huang, Bill		Huguet, Romain		Huttlin, Edward	
Huang, Chi-Jung		Huguet, Romain		Huttlin, Edward L	
Huang, Dai-Yong		Huguet, Romain		Hutton, Josiah	
Huang, Dai-Yong		Huguet, Romain		Hutton, Josiah	
Huang, Danning		Huhman, David		Hwang, Geum-Sook	
Huang, David		Huhmer, Andreas		Hwang, Geum-Sook	
Huang, Eric		Huhmer, Andreas		Hwang, Geum-Sook	
Huang, Eric		Huhmer, Andreas		Hwang, Heeyoun	
Huang, Eric		Huhmer, Andreas		Hwang, Sunil	
Huang, Guang		Huhmer, Andreas		Hwang, Sunil	
Huang, Guangming		Huhmer, Andreas		Hwang, Sunil	
Huang, He		Huhmer, Andreas		Hwang, Taeik	
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Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 158ThP 154TP 435TP 712WP 188WP 206TP 769TP 513MP 507TP 513MP 507TP 388TP 388
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 050TP 154TP 154TP 154TP 454TP 456TP 712WP 206TP 464Th 464Th 465TP 513MP 507TP 513WP 450TP 614TP 388TP 614TP 388TP 675Th 942TP 484TP 348TP 484TP 348TP 1933
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 050ThP 154TP 455TP 712WP 206ThP 464ThP 465TP 455TP 513MP 507TP 267 am 09:10WP 450TP 4614TP 388TP 388Th 9 675ThP 342TP 484TP 388TP 933TP 630
Juba, Melanie Jucker, Beat	WP 469 am 08:30ThP 366ThP 155WP 206TP 588 am 09:10 pm 03:10TP 154TP 435TP 712WP 188TP 435TP 768TP 686TP 686TP 708TP 513MP 507 am 09:10WP 450TP 614TP 388TP 614TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 484TP 388TP 388TP 484TP 484
Juba, Melanie Jucker, Beat	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 150TP 150TP 150TP 150TP 150TP 150TP 435TP 712WP 168TP 708TP 513MP 507TP 267 am 09:10WP 450TP 614TP 388TP 788TP 614TP 388TP 788TP 614TP 388TP 615TP 616TP 388TP 616TP 388TP 616TP 388TP 616TP 388TP 616TP 387TP 484TP 388TP 486TP 486TP 387TP 487TP 487TP 563
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 750TP 435TP 712WP 188WP 188WP 188WP 188WP 188WP 188WP 188ThP 513MP 507TP 513MP 507TP 388ThP 614TP 388ThP 675ThP 388ThP 675ThP 338MP 675TP 484TP 338MP 163TP 650WP 467TP 650WP 467TP 563MP 164
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 050TP 1435TP 1435TP 712WP 168TP 708TP 513MP 507TP 513MP 507TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 614TP 388TP 615TP 388TP 616TP 388TP 650TP 650TP 650WP 467TP 563WP 164MP 164MP 060
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 050ThP 154TP 154TP 154TP 464TP 464TP 465TP 513MP 507TP 513MP 507TP 614TP 388TP 615TP 388TP 675TP 563TP 563MP 1660TP 663
Juba, Melanie Jucker, Beat	WP 469 am 08:30ThP 366ThP 151WP 206TP 588 am 09:10 pm 03:10TP 154TP 154TP 155TP 156WP 168TP 712WP 188WP 006TP 686TP 708TP 513MP 507TP 614TP 450TP 614TP 388TP 614TP 388TP 388TP 388TP 388TP 513TP 614TP 388TP 513TP 653MP 164TP 388MP 033TP 484TP 388MP 033TP 563MP 164TP 563MP 164TP 563MP 164TP 663TP 563TP 663TP 663
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 154TP 154TP 154TP 154TP 156TP 157TP 158TP 159TP 159TP 159TP 159TP 151TP 151TP 151TP 151TP 261TP 261TP 261TP 261TP 388TP 388TP 388TP 388TP 388TP 388TP 388TP 484TP 388TP 484TP 388TP 484TP 388TP 484TP 388TP 484TP 388TP 614TP 563TP 663WP 467TP 563WP 164WP 090WP 094
Juba, Melanie Jucker, Beat	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 158TP 1435TP 1435TP 1686TP 513MP 507TP 614TP 388TP 615TP 484TP 388TP 675TP 484TP 486TP 675TP 650WP 450TP 650WP 450TP 6634WP 060TP 6634WP 090WP 0904TP 562
Juba, Melanie	WP 469 am 08:30ThP 366ThP 115WP 206TP 588 am 09:10 pm 03:10TP 580TP 750TP 144TP 435TP 712WP 188WP 206TP 769TP 513MP 507TP 513MP 507TP 614TP 388ThP 675TP 388ThP 675TP 388ThP 675TP 388ThP 650TP 484TP 388ThP 675TP 388ThP 650TP 484TP 388MP 033TP 650WP 467TP 634WP 090WP 090WP 090TP 634WP 090TP 634WP 090TP 634WP 090

Kaefer, Uwe	TP 419	Kang, Jeong Gu	TP 300	Katayama, Hiroaki	ThP 041
Kaefer, Uwe	ThOH pm 02:30	Kang, Jeong Gu	MP 092	Kato, Hisashi	TP 184
Kagan, Jacob	TP 098	Kang, Jukyung	WP 660	Kato, Kazuaki	WP 610
Kagan, Valerian	TP 347	Kang, Lijuan		Katselis, George	
Kagan, Valerian		Kang, Taewook		Katselis, George	
Kagan, Valerian		Kang, Yang		Katta, Nitesh	
Kagan, Valerian		Kannan, Ramakrishnan		Katyal, Priya	
				Katz, Arrin	
Kagan, Valerian		Kanshin, Evgeny		*	
Kagan, Valerian		Kantae, Vasudev		Katz, Ruth	
Kagawa, Kenichi		Kanwal, Nazia		Kaucher, Amy	
Kahler, Ty		Kao, Athit		Kaufman, Collin	
Kahn, C. Ronald		Kao, C		Kaufman, Thomas	
Kailasam, Srividya	MP 194	Kao, Diana	WP 541	Kauppila, Tiina	TP 349
Kailemia, Muchena	TP 105	Kao , John	WP 698	Kauppila, Tiina	TP 020
Kailemia, Muchena	WP 645	Kao, W. John	WP 325	Kaur, Parminder	ThP 319
Kaiser, Nathan	ThOC pm 03:50	Kao, W. John	MP 296	Kaur, Surinder	TP 055
Kaiser, Nathan	TOG pm 02:50	Kao, Wei-Fong	ThP 077	Kaur-Atwal, Gushinder	WP 069
Kajdan, Todd	TP 292	Kapahi, Pankaj	WP 701	Kaur-Atwal, Gushinder	WOA am 09:50
Kajihara, Shigeki		Kapinos, Brendon		Kaushal, Frenny	TP 440
Kakarla, Raghavi		Kapinos, Brendon		Kavan, Daniel	
Kakuda, Nobuto		Kapinos, Brendon		Kavan, Daniel	
Kakuda, Nobuto		Kaplan, Anna		Kavana, Michael	
Kalachova, Kamila		Kaplan, Desmond		Kavuri, MeghaShyam	
Kalafut, Bennett		Kaplan, Desmond		Kavuri, MeghaShyam	
Kalakoti, Shyam		Kapoor, Nidhi		Kavuri, Shyam	
Kalbach, Cathy		Kapp, Eugene		Kawahara, Kazuki	
Kalinin, Sergei		Kappert, Christin		Kawahara, Seiya	
Kalinin, Sergei		Kar, Amit		Kawai, Yosuke	
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Kalkum, Markus	MP 439	Karaduta, Oleg	ThP 026	Kawakami, Daisuke	ThP 084
Kalkum, Markus	WP 489	Karageorgos, loannis	WP 262	Kawakami, Daisuke	ThP 099
Käll, Lukas	TOA am 09:50	Karakaya, Yasin	MP 344	Kawakami, Daisuke	WP 348
Kalli, Anastasia		Karamessini, Denise		Kawakami, Daisuke	
Kalli, Anastasia		Karamonos, Theodoros		Kawakami, Daisuke	
Kalli, Anastasia		Karanam, Balasubramanyan		Kawamukai, Takatomo	
Kalliala, Ilkka		Karancsi, Tamas		Kawamukai, Takatomo	
				Kawamura, Takeshi	
Källsten, Malin		Karancsi, Tamas			
Kalocsay, Marian		Karancsi, Tamas	•	Kawana, Shuichi	
Kaltashov, Igor		Karas, Michael		Kawana, Shuichi	
Kaltashov, Igor		Karch, Kelly		Kawano, Chihiro	
Kaltashov, Igor		Karch, Kelly		Kawano, Shin	
Kaltashov, Igor	ThP 628	Karino, Mao		Kayili, Haci Mehmet	WP 600
Kalu Appulage, Dananjaya	WP 680	Karlinsey, Molly	TP 072	Kaytor, Michael	MP 141
Kalxdorf, Mathias	TP 561	Karlsborn, Tony	MP 467	Kazanjian, Avedis	TP 602
Kamal, Abu Hena	TP 579	Karlsson, Amy	MP 627	Kazui, Yuko	MP 222
Kamal, Abu Hena M	ThP 067	Karlsson, Hakan		Ke, Yan	WP 650
Kamal, Abu Hena M		Karlsson, Niclas		Ke, Yuyong	
Kamali, Soufiane		Karp, Peter		Kearsley, Anthony	
	MP 533				
		Karnen Gary	TP 504		MP 415
Kamali, Soufiane	WP 586	Karpen, Gary			MP 415
Kamali, Soufiane Kamat, Amrita	WP 586 MP 414	Karpov, Dmitry	TP 354	Keating, James	ThP 019
Kamali, Soufiane Kamat, Amrita Kamel, Amin	WP 586 MP 414 WP 098	Karpov, Dmitry Karpov, Dmitry	TP 354 TP 357	Keating, James Keating, James	ThP 019
Kamali, Soufiane Kamat, Amrita Kamel, Amin Kamenecka, Ted	WP 586 MP 414 WP 098 ThP 214	Karpov, Dmitry Karpov, Dmitry Karst, Uwe	TP 354 TP 357 ThP 258	Keating, James Keating, James Kedia, Komal	ThP 019 TP 193 TP 112
Kamali, SoufianeKamat, AmritaKamel, AminKamelocka, TedKaminsky, Stephen		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe	TP 354 TP 357 ThP 258 ThP 259	Keating, James Keating, James Kedia, Komal Kedia, Komal	ThP 019 TP 193 TP 112 WP 669
Kamali, Soufiane Kamat, Amrita Kamel, Amin Kamenecka, Ted Kaminsky, Stephen Kamiya, Yoshimi		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe	TP 354 TP 357 ThP 258 ThP 259 MP 457	Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong	ThP 019 TP 193 TP 112 WP 669 WP 527
Kamali, Soufiane Kamat, Amrita Kamel, Amin Kamenecka, Ted Kaminsky, Stephen Kamiya, Yoshimi Kamlage, Beate		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe	TP 354TP 357ThP 258ThP 259MP 457ThOF pm 03:10	Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie	ThP 019 TP 193 TP 112 WP 669 WP 527 WP 483
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe	TP 354TP 357ThP 258ThP 259MP 457ThOF pm 03:10ThOB pm 04:10	Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy	ThP 019 TP 193 TP 112 WP 669 WP 527 WP 483 ThP 675
Kamali, Soufiane Kamat, Amrita Kamel, Amin Kamenecka, Ted Kaminsky, Stephen Kamiya, Yoshimi Kamlage, Beate		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe	TP 354TP 357ThP 258MP 457MP 457ThOF pm 03:10ThOB pm 04:10ThP 212	Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel	ThP 019 TP 193 TP 112 WP 669 WP 527 WP 483 ThP 675 WP 300
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe	TP 354TP 357ThP 258MP 457MP 457ThOF pm 03:10ThOB pm 04:10ThP 212	Keating, James Keating, James Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel	ThP 019TP 193TP 112WP 669WP 527WP 483ThP 675WP 300MOG am 09:10
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe		Keating, James Keating, James Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel	ThP 019TP 193TP 112WP 669WP 527WP 483ThP 675WP 300MOG am 09:10
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Kartberg, Fredrik Karuppanan, Kalimuthu		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel	ThP 019TP 193TP 112WP 669WP 483ThP 675WP 300MOG am 09:10WOE pm 02:30
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Keher, Jonathan Keikhosravi, Adib	ThP 019TP 193TP 112WP 669WP 483ThP 675WP 300MOG am 09:10WOE pm 02:30MP 296
Kamali, Soufiane		Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Kartberg, Fredrik Karuppanan, Kalimuthu Kasamatsu, Masaaki Kashuba, Angela		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David	
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Kartberg, Fredrik Karuppanan, Kalimuthu Kasamatsu, Masaaki Kashuba, Angela Kashuba, Angela Kashuba, Angela	TP 354TP 357TP 258MP 259MP 457ThOF pm 03:10ThOB pm 04:10ThOB pm 04:10MP 212WP 645MP 222ThP 138ThP 299 anieMP 659	Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David	
Kamali, Soufiane		Karpov, Dmitry Karpov, Dmitry Karst, Uwe Karst, Uwe Karst, Uwe Karst, Uwe Kartberg, Fredrik Karuppanan, Kalimuthu Kasamatsu, Masaaki Kashuba, Angela Kaspar-Schoenefeld, Steph		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keith, Rachel	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keirh, Rachel Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Kelor, Joel Kelher, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Kelor, Joel Kelher, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keith, Rachel Kelkar, Jitendra	ThP 019 TP 193 TP 112 WP 669 WP 527 WP 483 ThP 675 WP 300 MOG am 09:10 WOE pm 02:30 MP 296 ThP 244 WP 594 WP 644 WP 128 MP 189 MP 677 WP 110 WP 111 TP 170 TP 280 TP 195 TP 198 TP 198 TP 198
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kelher, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keire, Jitendra Kelkar, Jitendra	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelleher, Neil	
Kamali, Soufiane		Karpov, Dmitry	TP 354 TP 357 ThP 258 ThP 259 MP 457 ThOF pm 03:10 ThOB pm 04:10 ThP 212 WP 645 MP 222 ThP 138 ThP 299 anie MP 659 anie MP 659 anie WP 371 MP 344 WP 122 MP 164 WP 561 WP 274 TP 592 TP 606 ThOA am 09:30 MP 654 MP 243 ThP 415 WP 416	Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelleher, Neil	
Kamali, Soufiane		Karpov, Dmitry		Keating, James Kedia, Komal Kedia, Komal Kee, Chee-Leong Keefer, Julie Keegan, Kathy Keelor, Joel Keelor, Joel Kehler, Jonathan Keikhosravi, Adib Keire, David Keire, David Keire, David Keire, David Keith, Rachel Kelkar, Jitendra Kelleher, Neil	

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Kelleher, Neil		Kentaro, Takahara		Khan, Aliyya	
Kelleher, Neil		Kentsis, Alex		Khan, Mohd M	
Kelleher, Neil		Kentsis, Alex		Khan, Mostafa	
Kelleher, Neil Kelleher, Neil		Kenttamaa, Hilkka Kenttamaa, Hilkka		Khan, Zareen	
Kelleher, Neil		Kenttamaa, Hilkka		Khanal, Neelam Khanal, Neelam	
Kelleher, Neil		Kenttamaa, Hilkka		Kharchenko, Andriy	
Kelleher, Neil		Kenttamaa, Hilkka		Kharybin, Oleg	
Kelleher, Neil		Kenttamaa, Hilkka		Kharybin, Oleg	
Kelleher, Neil		Kenttamaa, Hilkka		Kharybin, Oleg	•
Kelleher, Neil		Kenttamaa, Hilkka		Khasin, Yuriy	
Kelleher, Neil		Kenttamaa, Hilkka		Khatami, Amin	
Kelleher, Neil	TP 678	Kenttamaa, Hilkka	ThOH pm 03:50	Khater, Dalia	WP 239
Kelleher, Neil	MOC am 10:10	Kenttamaa, Hilkka	MOH pm 04:10	Khatri, Kshitij	WP 225
Kelleher, Neil	WOE pm 04:10	Kenttämaa, Hilkka	TP 113	Khatri, Kshitij	ThP 683
Kelleher, Neil		Kenttämaa, Hilkka	ThP 198	Khatri, Kshitij	WP 518
Kelleher, Neil		Kenttämaa, Hilkka		Khattar, Nikkita	
Kelleher, Neil		Keppel, Ted		Khattar, Nikkita	
Keller, Andrew		Keppel, Ted		Khattar, Rikkita	
Keller, Austin		Keppel, Theodore		Khattar, Rikkita	
Keller, Austin		Keppler, Bernhard		Khazaei, Hamid	
Keller, Austin		Kern, Katharina		Khlystov, Andrey	
Keller, Austin		Kern, Katharina		Khodadoust, Michael	
Keller, Caitlin Keller, Jennifer		Kern, Katharina Kern, Sara		Khodjaniyazova, Sitora Khodjaniyazova, Sitora	
Keller, Karin		Kernan, Jeff		Khomoto, Takushi	
Keller, Mark		Kero, Frank		Khoo, Kay-Hooi	
Keller, Mark		Kero, Frank		Khoo, Kay-Hooi	
Keller, Nancy		Kero, Frank		Khoo, Kay-Hooi	
Keller, Rebecca		Kerr, David		Khopkar, Sampada	
Kellermann, Gottfried		Kerr, Richard		Khopkar, Sampada	
Kellermann, Mieke		Kerr, Richard		Khopkar, Sampada	
Kelley, James		Kerrin, Elliott		Khorrami, Sam	
Kelley, James		Kersten, Hendrik	MP 245	Khosla, Chaitan	ThP 098
Kelley, Robert	TOB am 09:50	Kersten, Hendrik		Khoury, Alfred	MP 035
Kellie, John		Kersten, Hendrik	ThP 189	Kibbey, Richard	ThP 246
Kellmann, Markus		Kersten, Hendrik		Kibbey, Richard	
Kellmann, Markus	TP 650	Kersten, Hendrik	ThP 191	Kibbons, Matthew	
Kellmann, Markus		Kersten, Hendrik		Kidner, Catherine	
Kellum, John		Kersten, Hendrik		Kido Soule, Melissa	
Kelly, Christina		Kersten, Hendrik		Kido Soule, Melissa	
Kelly, Christina		Kersten, Hendrik		Kiebish, Michael	
Kelly, Jeffery		Kersten, Hendrik		Kieslar, Janna	
Kelly, John Kelly, Maia		Kertesz, Vilmos Kertesz, Vilmos		Kiessling-Wolf, Nicole	
Kelly, Robert		Kertesz, Vilmos		Kieuvongngam, Virapat Kihara. Daisuke	
Kelly, Ryan		Kertesz, Vilmos		Kihara, Keishi	
Kelly, Tess		Keshet, Uri		Kijak, Philip	
Kelson, Celine		Keshet, Uri		Kikuchi, Naoki	
Kelstrup, Christian		Kesse-Guyot, Emmanuelle		Kil, Yong	
Kelstrup, Christian		Kessler, Benedikt		Kil, Yong	
Kelstrup, Christian		Kessler, Nikolas		Kil, Yong	
Kelstrup, Christian	ThP 575	Kesuma, Djohan	TP 727	Kilaz, Gozdem	ThOH pm 03:50
Kelstrup, Christian	MP 632	Kettenbach, Arminja	WP 044	Kilgour, David	WP 283
Kelstrup, Christian		Kettenbach, Arminja	ThP 557	Kilgour, David	ThOC pm 02:50
Kemenes, Gyorgy		Kettenbach, Arminja		Kilgour, David	
Kemenes, Ildiko		Kettenbach, Arminja		Kilgour, Samantha	
Kemper, Paul		Kevala, Karl		Kilili, Geoffrey	
Kemperman, Robin		Kew, Kimberly		Killeen, Kevin	
Kemperman, Robin		Keyhani, Anahita		Kilne, Joshua Kilpatrick, Lisa	
Kemperman, Robin Kemperman, Robin		Keyhani, Anahita Keyhani, Anahita		Kim, Bum Jin	
Kempf, Bruce		Keyhani, Anahita		Kim, Buill Sill	
Kempf, Bruce		Keyhani, Anahita		Kim, Donghwi	
Kempf, Jürgen		Keyhani, Anahita		Kim, Dong-Hyun	
Kempkes, Lisanne		Keyhani, Anahita		Kim, Dong-Hyun	
Kenig, Fabien		Keyhani, Anahita		Kim, Doo Jin	
Kennedy, David		Keyhani, Anahita		Kim, Doojin	
Kennedy, Eamonn		Keyhani, Anahita		Kim, Eui Tae	
Kennedy, Jacob		Keyhani, Anahita		Kim, H. Jamie	
Kennedy, Joseph	WP 027	Khachatoorian, Ronik	ThP 569	Kim, Hee Jong	ThP 337
Kennedy, Joseph		Khadang, Ardeshir		Kim, Hee-Yong	
Kennedy, Joseph H		Khadang, Ardeshir		Kim, Hee-Yong	
Kenny, Frances		Khadka, Manoj		Kim, Hyunmin	
Kenny, Jacqueline		Khaja, Muneeruddin		Kim, Hyunsoo	
Kenny, Louise		Khakinejad, Mahdiar		Kim, Jae Young	
Kenny, Louise		Khamahair Sila Pagah		Kim, Jaeah	
Kenny, Tara		Khamehgir-Silz, Pegah		Kim, Jae-Seok	
Kent, Craig	IVIP 593	Khamehgir-Silz, Pegah	vvOr pm 04:10	Kim, Jay	1P 006

Kim.	Jeongkwon	WP 302	Kirchhoff, Jon	WP 115	Knight, Patrick	MP 562
,	Jeongkwon		Kirchhoff, Jon		Knight, Rob	
,	Jeongkwon		Kirchner, David		Knight, Rob	
	Jihyung		Kirillov, Sergey		Knight, Rob	
	Jin		Kirillova, Elena		Knight, Rob	
	Jin		Kirk, Jayne		Knight, Rob	
	Jin Young		Kirk, Jayne		Knight, Rob	
	Jinhee		Kirk, Jayne		Knight, Rob	
			=		Knoener, Rachel	
	Jinhee	•	Kirk, Jayne		•	
	Jitae		Kirkland, Phillip		Knoener, Rachel	
	Jong Seung		Kirkpatrick, Christine		Knott, Jeffery	
	Ju-Hyun		Kirkpatrick, Christine		Knott, Jeffery	
	Jun Seok		Kirkpatrick, Christine		Knott, Samantha	
,	Junhwan		Kirkpatrick, Donald		Ko, Chu-Ling	
Kim,	Jun-hyoung	MP 209	Kiselar, Janna	ThP 064	Ko , Jeong	WP 244
Kim,	Kwang Hoe	TP 318	Kiselar, Janna	ThP 593	Ko, Jeong-Heon	
Kim,	Kyu Yeon	MP 209	Kiseleva, Sophia	WP 120	Ko, Jeong-Heon	TP 318
Kim,	Michael	TP 049	Kishen, Anil	WP 442	Ko, Jeong-Heon	
Kim,	Michael	WP 630	Kislinger, Thomas	WOE pm 03:10	Ko, Tak	MP 527
	Mira		Kitagawa, Norton		Koal, Therese	
	Moon-Ju		Kitano, Hiroaki		Kobarg, Jan Hendrik	
	Moo-Young		Kltano, Riki		Kobarg, Jan Hendrik	
	Moo-Young		Kitano, Riki		Kobayashi, Daiki	
	-		Kitaoka, Maiko			
	Nam Sook		,		Kobayashi, Hiroshi	
	Purum		Kitata, Reta Birhanu		Kobayashi, Manami	
	Sang Yoon		Kitata, Reta Birhanu		Kobler, Bernd	
	Seung Joong		Kitova, Elena		Koch, Annika	
	Shin-Hye		Kitova, Elena		Koch, Heiner	
	Su Hwan		Kitova, Elena		Koch, Heiner	
Kim,	Sumin	TP 585	Kiyonami, Reiko	MP 493	Koch, Heiner	WP 371
Kim,	Sumin	MP 092	Kiyonami, Reiko	WP 417	Kochansky, Christopher	MP 127
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Kim,	Sunghwan	MOG pm 02:50	Kiyonami, Reiko	WP 476	Kochansky, Christopher	MP 334
Kim,	Sung-Joon	TP 483	Kiyonami, Reiko	WOD pm 03:10	Kochar, Tavleen	MP 183
	Taek		Kizhakkedathu, Jayachano		Kochert, Brent	
	Unyong		Kizilboga, Tugba		Kochhar, Rashi	
	Unyong		Kjeldsen, Frank		Kochhar, Rashi	
	Yangsun		Klaeger, Susan		Kochhar, Rashi	
	Yangsun		Klarqvist, Magnus		Kochhar, Rashi	
					Kochhar, Rashi	
	Yong-Sam		Klassen, John			
	Yong-Sam		Klassen, John		Kochhar, Rashi	
	Yong-Sam		Klassen, John		Kocurek, Klaudia	•
	Youngjae		Klavins, Kristaps		Kodama, Paul	
	Young-Mo		Klecha, Lawrence		Koehler, Stephen	
	Young-Pil		Klee, Sonja	TP 420	Koehler, Stephen	
	Youngsoo		Klein, Christian	WP 049	Koelbel, Knut	ThP 608
Kim,	Yuns	MP 259	Klein, Christian	ThP 616	Koellensperger, Gunda	WP 394
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Kim-	Kang, Heasook	MP 145	Klein, Dustin	TP 114	Koellensperger, Gunda	ThOG am 09:30
Kimr	nel, Joel	TOD pm 03:50	Klein, Joshua	WP 225	Koellensperger, Gunda	
Kimu	ıra, Koichi	MP 008	Klein, Joshua	WP 235	Koellensperger, Gunda	
	ıra, Motokazu		Klein, Joshua	ThP 683	Koeller, David	
	ıra, Susana		Klein, Joshua		Koelmel, Jeremy	
	ıtai, Bett	·	Klein, Thorsten	·	Koelmel, Jeremy	
	Tobias		Klett, Eric		Koelmel, Jeremy	
	, Tobias		Klima, Miriam		Koelmel, Jeremy	
	, Iobias , Adam	•	Klimberg, Suzanne		Koelmel, Jeremy	
	, Adam , Brad		Kline, Susan		Koelmel, Jeremy	
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	, Brad		Kline, Susan		Koenig, Michael	
•	, Brad		Klinger, Andreas		Kofoed, Thomas	
	, Christina		Klitzke, Clécio		Kofoed, Thomas	
_	, Jean		Klose, Christian		Kohata, Tomohiro	
	, Richard		Kloss, Alla		Kohlbacher, Oliver	
	, Richard		Kluijtmans, Leo	MP 432	Kohlbacher, Oliver	
King	, Samuel	TP 127	Klykov, Oleg	MP 585	Kohlbacher, Oliver	TOE pm 02:50
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	ston, H. M. Skip		Knapp, Stefan		Kohlhagen, Mindy	ThP 489
	ston, H. M. Skip		Knappe, Detlef		Kohmoto, Takushi	
	ade, Jeffrey		Knaute, Tobias		Kohrt, Holbrook	
	unen, Sini		Knaute, Tobias		Koizumi, Hirotaka	
	shita, Noriyuki		Knaute, Tobias		Kolachina, Shilpa	
	shita, Syoheishita, Syohei		Knecht, Dana		Koll, Hans	
	el, Gary R		Knevitt, Daniel		Koll, Hans	
	er, Caroline		Kniese, Jasmin		Koller, Claudia	
	r, Michael		Knight, James		Kolmeder, Carolin	
	, Danielle		Knight, James		Kolmogorov, Mikhail	
Kirch	nberg, Doreen	WP 476	Knight, Margaret	ThP 508	Komar, Nikita	TP 251

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Komarov, Alexander		Kotecki, Carl		Kriegsmann, Joerg	
Komatsu, Emy		Kotha, Raghavendhar		Kriegsmann, Mark	
Komatsu, Emy		Kotha, Raghavendhar		Krishna, Suprita	
Komatsu, Emy	WP 249	Kothapalli, Naga Rama		Krishnamurthy, Shruthi	ThP 555
Kompauer, Mario	WOF pm 04:10	Kotiaho, Tapio	WP 715	Krishnapuram, Rashmi	WP 482
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Konermann, Lars	ThP 209	Kottke, Peter	TP 411	Krisp, Christoph	WP 067
Konermann, Lars		Kottke, Peter		Kriss, Crystina	
Konermann, Lars		Kottke, Peter		Kriss, Crystina	
Konermann, Lars		Kou, Qiang		Kristiansen, Max Per	
Kong, Andy		Kouatli, Yaman		Kristie, Thomas	
Kong, Andy		Koudssi, Georges		Krivos, Kady	
Kong, Andy		Koudstaal, Peter Koul. Aditi		Kroeger, Nicholas	
Kong, John		Koulis. Theo		Krogan, Nevan Krogan, Nevan	
Kong, John		Kounadis, Diamantis		Kröger, Nils	
Kong, Li		Kounadis, Diamantis		Kröger, Sabrina	
Kong, Nannan		Kounadis, Diamantis		Krogh, Erik	
Kong, Xianglei		Kovalchuk, Sergey		Krokhin, Oleg	
Konicek, Michael		Kovalchuk, Sergey		Krokhin, Oleg	
Kononikhin, Alexey		Kovalev, Vitaly		Krokhin, Oleg	
Kononikhin, Alexey		Kovalev, Vitaly		Krokhin, Oleg V	
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Kononikhin, Alexey	ThP 451	Kowalski, Kevin		Krone, Liesl	
Kononikhin, Alexey		Kowalski, Konrad		Kröner, Lars	
Konopka, Adam		Kowalski, Konrad		Kronewitter, Scott	
Konrad, Csaba		Kowol, Christian		Kronewitter, Scott	
Kooijman, Pieter		Kowski, Tom		Kronja, Iva	
Koomen, John		Koy, Cornelia		Kros, Johan	
Koomen, John		Koyuturk, Mehmet Koyutürk, Mehmet		Krska, Shane	
Koomen, John Koopmans, Frank		Koza, Stephan		Krska, Shane Krueger, Dana	
Koopmans, Frank		Kozak, Katherine		Krug, Oliver	
Kopatsis, Alexander		Kozhinov, Anton		Krüger, Sascha	
Kopp, Kevin		Kozhinov, Anton		Krumm, Johannes	
Kopp, Matt		Kozhinov, Anton		Krupke, Andreas	
Koppen, Valerie		Kozhinov, Anton		Krupke, Andreas	
Köppen, Christina		Kozhinov, Anton		Kruppa, Gary	
Koppenaal, David		Kozhinov, Anton	ThP 369	Kruppa, Gary	
Koppenaal, David	MP 007	Kozhinov, Anton	ThOC pm 02:50	Kruse, Andrew	TP 643
Koppenaal, David	ThOF am 10:10	Kozhinov, Anton	TOG am 09:50	Kryuchkov, Fedor	
Koppenaal, David		Kozin, Sergey		Ku, Kuo-Lung	
Kopra, Jaakko		Kozin, Sergey		Ku, Kuo-Lung	
Korasikha, Sridhar		Koziol, Scott		Ku, Kuo-Lung	
Korenblium, Alex		Kozliak, Evguenii		Ku, Wei-Chi	
Korff, Thomas		Kozlik, Petr		Kuales, Miriam	
Korfmacher, Walter Korfmacher, Walter		Kozlov, Anton Kozlov, Boris		Kubátová, Alena Kubilius, Rytis	
	ThP 053	Kramer. Catherine		Kudo. Hiromi	
Kori, Yekaterina		Kramer, Karl		Kudo, Hiromi	
Korn, Joseph		Kramer, Karl		Kudo, Yukihiko	
Kornberg, Roger		Kramer, Karl		Kudo, Yukihiko	
Korobeynikov, Anton	•	Kramer, Katharina		Kuehl, Don	
Korte, Andrew		Kramer, Philip	TOE am 09:10	Kuehl, Don	WP 399
Kosaisawe, Nont	TP 552	Krasinska, Karolina	MP 202	Kuehl, Philip	ThP 172
Kosaka, Priscila	MOG am 08:30	Krasinska, Karolina M	ThP 715	Kuehl, Philip	MP 683
Kosciolek, Tomasz	TP 520	Krawitzky, Michael		Kuehn, Andreas	
Koshel, Brooke		Krechmer, Jordan		Kuehn, Benjamin	
Koshel, Brooke		Kreifeldt, Max		Kuehne, Dirk	
Kosinski, Thomas		Kreimer, Simion		Kuehne, Patrick	
Kosofsky, Barry		Kreimer, Simion		Kufareva, Irina	
Koss, Abigail		Kremer, Daniel		Kugler, Christian	
Köster, Claus		Kresovich, Stephen Kretsch, Amanda		Kuharev, Jörg	
Köster, Claus Kostiainen, Risto		Kretzschmar, Doris		Kuhn, Jeffrey F Kuhn, Richard	
Kostyukevich, Yury		Kreutzman, Arne		Kuijper, Ed	
Kostyukevich, Yury		Kreutzmann, Arne		Kujawinski, Elizabeth	
Kostyukevich, Yury		Krieger, Eduardo		Kujawinski, Elizabeth	
Kostyukevich, Yury		Krieger, Jonathan		Kukacka, Zdenek	
Kostyukevich, Yury		Krieger, Jose		Kukacka, Zdenek	
Kosuga, Motomichi		Krieger, Jose		Kukacka, Zdenek	
Koswara, Andy		Krieger, Jose		Kukaev, Eugene (Evgeny)	
Koswara, Andy		Krieger, Jose		Kuklenyik, Peter	
Koszinowski, Konrad	WP 197	Krieger, Jose Eduardo		Kuklenyik, Zsuzsanna	
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Kukurba, Kimberly	WOA nm 02:50
Kulak, Nils	MP 614
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Kulej, Katarzyna	
Kulej, Katarzyna	TOC pm 03:50
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Kulyk, Dmytro	
Kumar, Anoop	
Kumar, Ashok	
Kumar, Manoj	
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Kumar, Praveen	TP 365
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Kumar, Santosh	
Kumar, Subodh	
Kumar, Vivek	
Kumar Prabhakar, Pradeep	IF 307
Kumari, Sunita	IP 567
Kune, Christopher	
Kuo, Yin-Ming	
Kuo, Yu-Hsuan	
Kuppannan, Krishna	
Kurczy, Michael	.ThOF am 08:50
Kurland, Irwin	WP 397
Kurland, Irwin	
Kursar, Thomas	
Kurulugama, Ruwan	
Kurulugama, Ruwan	
Kurulugama, Ruwan	
Kurulugama, Ruwan	
Kurumbail, Ravi	
Kusano, Maiko	
Kusano, Maiko	WP 003
	WP 003
Kusano, Maiko Kusebauch, Ulrike Kushnir, Michelle	WP 003 TOA am 09:10 WP 615
Kusano, Maiko Kusebauch, Ulrike	WP 003 TOA am 09:10 WP 615
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Kusano, Maiko Kusebauch, Ulrike Kushnir, Michelle Kussmann, Martin Kuster, Bernhard	
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Lau, Andy		LeDuc, Richard		Lee-McMullen, Brittany	
Lau, Janet		Lee, Amanda		Leeper, Thomas	
Lau, Justin		Lee, Amanda		Lefcoski, Stephan Lefebvre, Brent	
Lau, Justin Kai-Chi Lau, Justin Kai-Chi		Lee, Andrew Lee, Andrew		Leff, Daniel	
Lau, Sydney		Lee, Andrew		Leff, Daniel	
Lauber, Matthew		Lee, Anita		Legault, Pascale	
Laue, Alexander		Lee, Chen-Wei		Lege, Sascha	
L aughlin , Brian		Lee, Chi Fung		Legendre, Matthieu	
Laughlin, Brian		Lee, Chi-Wei		Leggett, Keith	
Laukens, Kris		Lee, Dongkun		Leghissa, Allegra	
Laukens, Kris		Lee, Edgar		Legouffe, Raphael	
Laukens. Kris		Lee, Han-Kyu		Legouffe, Raphael	
Laure, Helen		Lee, Hsun		Legoupil, Thierry	
Lavallee, Richard		Lee, Hye Suk		Lehman, Stephanie	
_avallée-Adam, Mathieu		Lee, Hyoungjoo		Lehmann, Fredrik	
Lavanant, Hélène		Lee, Hyun Kyoung		Lehmann, Katharina	
_avigne, Regist		Lee, Hyun Kyoung		Lehmann, Stephanie	
Laviolette, François		Lee, Ji Hyun		Lehtikoski, Antony	
_aw, Brandon		Lee, Jingyun		Lei, Jiajun	
_aw, Brandon		Lee, Ji-Won		Lei , Lei	
Lawler, John		Lee, Jiyeong		Lei, Q. Paula	
Lawler, John		Lee, Jiyeong		Lei, Xiaoguang	
Lawler, John		Lee, Jiyeong		Lei, Xiaoguang	
Lawrence, Richard		Lee, John		Lei, Zhentian	
Lawrence, Richard		Lee, Jong Cheol		Lei, Zhentian	
_awson, Joshua		Lee, Joon-Yong		Lei, Zhentian	
_awton, Zachary		Lee. Ju		Leib, Ryan	
Lawton, Zachary		Lee, Ju Yeon		Leib, Ryan	
Lay, Jr., Jackson		Lee, Jua		Leisner, Thomas	
_aycock, John		Lee, Jua		Lekkas, Alexander	
_ayman, Rick		Lee, Jun Xiang		Lekkas, Alexander	
_ayman, Rick		Lee, Jun Xiang		Lekkas, Alexander	
azar, Iulia		Lee, Jun Xiang		Lekkas, Alexander	
_azarev, Alexander		Lee, Juneyoung		Lemaire, Joel	
_e, Anh		Lee, Jung		Lemoine, Jérôme	
.e , Thao		Lee, Jung		Lemoine, Jérôme	
e Brech, Yann		Lee, Jung		Lemr, Karel	
_e Brech, Yann		Lee, Juyeon		Lendal, Sara	
e Maitre, Christine		Lee, Kelvin		Leng, Fenfei	
_e Mignon , Maxime		Lee, Kwangwon		Leng, Mei	
each, Robin		Lee, Kwangwon		Leng, Mei	
each, Samantha		Lee, Kwangwon		Lennon, Sarah	
_each III, Franklin		Lee, Lawrence		Lennon, Sarah	
each III, Franklin		Lee, Linda		Lenz, Heinz-Josef	
each III, Franklin E		Lee, Maw-Rong		Leon, Deborah	
_eal, Mauricio		Lee, Maw-Rong		Leon, Deborah	
_eaptrot, Katrina		Lee. Mike		Leon, Deborah	
_ebedev, Albert		Lee, Richard		Leon, Deborah	
_ebedev, Albert T		Lee, Richard		Leon, Deborah R	MP OF
_ebedev, Albert T		Lee, Richard		Leon, Frank	
LeBlanc, Andre		Lee, Richard		Leonard, Susan	
_eBlanc, André		Lee, Richard		Leonards, Pim	
eBlanc, J.C. Yves		Lee, Sang-Bok		Leopold, Philip	
.eBlanc , J.C. Yves		Lee, Sanghee		Leopold, Shana	
_eBlanc , J.C. Yves		Lee, Seong-Hun		Leprevost, Felipe	
_eBlanc , J.C. Yves		Lee, Seulgidaun		Leprevost, Felipe	
eBlanc, J.C. Yves		Lee, Sung Hyun		Leprevost, Felipe	
_eBlanc , J.C. Yves		Lee, Sung riyun Lee, Susan		Leprevost, Felipe	
eBlanc, J.C. Yves		Lee, Tae		Leprovost, Julien	
eBlanc, J.C. Yves		Lee, Tae Geol		Lerch, Thomas	
eBlanc, Yves		Lee, Victoria		Lermyte, Frederik	
eBlanc, Yves eBlanc, Yves		Lee, Wen-Yen		Lerner, Seth	
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.ebrilla, Carlito .ebrilla, Carlito		Lee, Wonkyung Lee, Yi-Kun		Lesniewski, Joseph	
		Lee, Yi-Kun			
ebrilla, Carlito				Lesslie, Michael	
_ebrilla, Carlito		Lee, Young In		Lesslie, Michael	
_ebrilla, Carlito		Lee, Young In		Lesur, Antoine	
_ebrilla, Carlito		Lee, Young Jin		Letarte, Sylvain	
Lebrilla, Carlito		Lee, Young Jin		Letarte, Sylvain	
Lebrilla, Carlito		Lee, Young-Jin		Letnic, Mike	
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Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui	ThP 699ThP 106ThP 107TP 118ThOD pm 03:10MP 703WP 593WP 334	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin		Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shu	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089
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Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Ghin Lin, Guohui Lin, Haw-Wei Lin, Jia Lin, Jia Lin, Jia-Ming	ThP 699ThP 106ThP 107TP 118ThOD pm 03:10MP 703WP 593WP 334TOG am 09:30TP 223WP 016MP 113	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang		Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shu Liu, Shuangqi Liu, Siqi Liu, Siqi Liu, Siqi	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338
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Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John	ThP 699 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 WP 118 MP 286 WOF pm 02:50 ThP 675	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chao Liu, Chao	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Sherry Liu, Shin-Hung Liu, Shuangqi Liu, Siqi	TP 089 MP 353 WP 019 WP 647 TTP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338 MOE am 09:50 MP 465
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Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee		Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang	MP 581 MP 527 WP 443 TOB pm 02:30 .TP 683 ThP 456 .TP 548 MP 332 .TP 626 MP 228 MP 350 MP 111 MP 147 .TP 448 .WP 483 .WP 233 .TP 654 .ThP 531 TOA am 10:10 .TP 016	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shu Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338 MOE am 09:50 MP 465 TP 073 WP 695 MP 537 TP 078
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Lin, Cheng	ThP 699 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 079	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Chang	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 551 TOA am 10:10 TP 016	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shuangqi Liu, Siqi Liu, Tao	TP 089 MP 353 WP 019 WP 647 TTP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 350 ThP 338 MOE am 09:50 MP 465 TP 073 WP 695 MP 537 TP 098
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jung-Lee		Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Charles Liu, Charles Liu, Charles Liu, Chengyuan	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 016 TP 017	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting	TP 089 MP 353 WP 019 WP 647 TF 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 350 TNP 358 MOE am 09:50 MP 465 TP 073 WP 695 MP 537 TP 098 WOE pm 02:50 MP 588
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Jia Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jung-Lee Lin, Karen		Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chao Liu, Chao Liu, Chao Liu, Chao Liu, Charles Liu, Charles Liu, Charles Liu, Chengyuan Liu, Chengyuan	MP 581 MP 527 MP 443 MP 527 MP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 MP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 MP 239 TP 008	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Shin-Hung Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tina Liu, Tina Liu, Ting Liu, Ting Liu, Ting Liu, Ting	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338 MOE am 09:50 MP 465 MP 695 MP 537 TP 098 WOE pm 02:50 MP 588 TP 147 TP 272
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jun Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Karen Lin, Karen Lin, Karen Lin, Liang		Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Charles Liu, Charles Liu, Charles Liu, Changyuan Liu, Chengyuan Liu, Chengyuan Liu, Chengyuan	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 669	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Tong Liu, Wei	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338 MOE am 09:50 MP 465 MP 537 TP 073 WP 695 MP 537 TP 098 WOE pm 02:50 MP 548 MP 548 MP 548 MP 548 MP 548 MP 548
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Jia-Wing Lin, Jia-Wing Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Karen Lin, Karen Lin, Liang Lin, Mai-Su	ThP 699 ThP 106 ThP 107 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 079 MP 481 MO Apm 03:10 MP 465 WP 538	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Chang Liu, Charles Liu, Chengyuan Liu, Chengyuan Liu, Chih	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 669 TP 572	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shuangqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tina Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Tong Liu, Wei Liu, Wei Liu, Weijing	TP 089 MP 353 WP 019 WP 647 TP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 360 ThP 338 MOE am 09:50 MP 465 TP 073 WP 695 MP 537 TP 098 WOE pm 02:50 MP 588 TP 147 TP 272 WP 480 TP 067
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jung-Lee Lin, Mar-Su Lin, Mai-Su Lin, Mia-Su Lin, Mia	ThP 699 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 079 MP 481 MOA pm 03:10 MP 465 WP 538 TOC am 08:30	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Chang Liu, Chengyuan Liu, Chin Liu, Chin Liu, Chin Liu, Chin-Wei Liu, Chongming	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 551 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 669 TP 572 TP 680	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Serah. Liu, Sherry. Liu, Shin-Hung Liu, Shuangqi. Liu, Siqi. Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Weijing	TP 089 MP 353 WP 019 WP 647 TTP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 350 TNP 358 MOE am 09:50 MP 465 TP 073 WP 699 MP 537 TP 098 WOE pm 02:50 MP 588 TP 147 TP 272 WP 480 TP 067 TNP 638
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Jung-Lee Lin, Karen Lin, Karen Lin, Liang Lin, Mai-Su Lin, Miao-Hsia Lin, Miin	ThP 699 ThP 106 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 593 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 079 MP 481 MOA pm 03:10 MP 485 WP 538 TOC am 08:30 WP 505	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chin-Wei Liu, Chin-Wei Liu, Chongming Liu, Danting	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 609 TP 572 TP 680 MP 107	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao	TP 089 MP 353 WP 019 WP 647 TTP 548 MP 399 WP 089 TP 116 MP 639 TP 353 TP 353 MOE am 09:50 MP 465 TP 073 WP 695 MP 537 TP 098 WOE pm 02:50 MP 588 TP 147 TP 272 WP 480 TP 063 TP 063 TP 063 TP 063 TP 063
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Jia Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jung-Lee Lin, Main-Su Lin, Miao-Hsia Lin, Miin Lin, Miin Lin, Ming	ThP 699 ThP 106 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 593 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 TOC am 08:30 MP 465 WP 538 TOC am 08:30 WP 505 MP 058	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chao Liu, Charles Li	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 669 TP 572 TP 680 MP 107 TP 049	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Shuangqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Wei, Wei, Wei, Wen Liu, Wen	TP 089
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Ja-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jun Lin, Jun Lin, Jun Lin, Jun Lin, Jun Lin, Jung-Lee Lin, Main-Su Lin, Mino-Hsia Lin, Miin Lin, Ming Lin, Patrick	ThP 699 ThP 106 ThP 107 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 615 TP 030 MP 234 ThP 615 TP 030 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 615 MOG am 09:30 MP 079 MP 481 MOA pm 03:10 MP 465 WP 508 MP 508 MP 505 MP 505 MP 505	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chao Liu, Charles Liu, Charles Liu, Charles Liu, Chongming Liu, Chih-Wei Liu, Chongming Liu, Danting Liu, Diana Liu, Ding	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 ThP 669 TP 572 TP 680 MP 107 TP 049 TP 049 TP 049	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Serah. Liu, Sherry Liu, Shin-Hung Liu, Shin-Hung Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tina Liu, Ting Liu, Ting Liu, Wei Liu, Wei Liu, Wei Liu, Wen Liu, Wen Liu, Wen Liu, Xiaodong	TP 089
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Haw-Wei Lin, Jia-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Julie Lin, Jung-Lee Lin, Ming-Lin, Ming Lin, Ming Lin, Patrick Lin, Patrick	ThP 699 ThP 106 ThP 107 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 ThP 611 MOG am 09:30 MP 234 ThP 611 MOG am 09:30 MP 079 MP 481 MOA pm 03:10 MP 485 WP 538 TOC am 08:30 WP 505 MP 058 MP 058 MP 058	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chao Liu, Charles Liu, Charles Liu, Chengyuan Liu, Chengyuan Liu, Chih Liu, Chih Liu, Chih Liu, Chih Liu, Chingming Liu, Danting Liu, Diana Liu, Ding Liu, Ding Liu, Dongting	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 483 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng Liu, Renmeng Liu, Serah Liu, Sherry Liu, Shin-Hung Liu, Shu Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Siqi Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Wei Liu, Wei Liu, Wei Liu, Wen Liu, Wen Liu, Wen Liu, Wen Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong. Liu, Xiaodong.	TP 089
Lin, Chen-Chung Lin, Cheng Lin, Cheng Lin, Chenwei Lin, Chin Lin, Guohui Lin, Ja-Ming Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, John Lin, Jun Lin, Jun Lin, Jun Lin, Jun Lin, Jun Lin, Jung-Lee Lin, Main-Su Lin, Mino-Hsia Lin, Miin Lin, Ming Lin, Patrick	ThP 699 ThP 106 ThP 107 TP 118 ThOD pm 03:10 MP 703 WP 593 WP 334 TOG am 09:30 TP 223 WP 016 MP 113 WP 118 MP 286 WOF pm 02:50 ThP 675 TP 030 MP 234 THP 611 MOG am 09:30 MP 296 MP 296 MP 296 MP 297 MP 481 MOA pm 03:10 MP 485 WP 538 TOC am 08:30 WP 505 MP 058 MP 058 MP 681 TP 453 WP 081	Litichevskiy, Lev Litton, Edward Litzau, Jonathan Liu, Aihua Liu, Aihua Liu, Bin Liu, Bin Liu, Chang Liu, Chang Liu, Chang Liu, Chang Liu, Chao Liu, Charles Liu, Charles Liu, Charles Liu, Chongming Liu, Chih-Wei Liu, Chongming Liu, Danting Liu, Diana Liu, Ding	MP 581 MP 527 WP 443 TOB pm 02:30 TP 683 ThP 456 TP 548 MP 332 TP 626 MP 228 MP 350 MP 111 MP 147 TP 448 WP 233 TP 654 ThP 531 TOA am 10:10 TP 016 TP 017 WP 239 TP 008 TP 079 TP 080 MP 107 TP 049 TP 309 MP 145 WP 226	Liu, Pengyuan. Liu, Qiaoxia Liu, Renmeng. Liu, Renmeng. Liu, Serah. Liu, Sherry. Liu, Shin-Hung Liu, Shuangqi. Liu, Siqi. Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Tao Liu, Ting Liu, Ting Liu, Ting Liu, Ting Liu, Wei, Liu, Wei, Liu, Wei Liu, Wen Liu, Wen Liu, Wanodong Liu, Xiaodong	TP 089

Liu, Xiaowen	
Liu, Xiaowen	
Liu, Xiaoxiao	
Liu, Xin	
Liu, Xinwei	
Liu, Xinwei	TOG am 08:50
Liu, Yang	ThP 081
Liu, Yang	TP 108
Liu, Yang	
Liu, Yang	WP 247
Liu, Yang	ThP 5/16
Liu, Yang	ThD 639
Liu, Yang	
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Liu, fally	MOLL pm 03:50
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Liu, Yang	TOF am 08:30
Liu, Yan-Hui	
Liu, Yanqiu	
Liu, Yansheng	
Liu, Yanxia	TP 353
Liu, Yao-Min	
Liu, Yaqin	
Liu, Yen-Chun	
Liu, Yi	
Liu, Yichin	
Liu, Yichin	
Liu, Ying	
Liu, Yong	WP 338
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Liu, Yuang	
Liu, Yujie	
Liu, Yunlong	TP 589
Liu, Zhaoyang	
Liu, Zhiqiang	
Livet, Sandrine	
Livnat, Itamar	
Liw, Wan Tung	
Liyanage, Rohana	
Liyanage, Tara	
Liyanage, Tara	
Llanos, Adana	
Llewellyn, Maral	
Llufrio, Liz	MP 472
Llufrio, Liz Lobas, Anna	MP 472 TP 357
Llufrio, Liz Lobas, Anna Lobingier, Braden	MP 472 TP 357 TOC pm 02:50
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad	MP 472 TP 357 TOC pm 02:50 ThP 252
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter	MP 472 TP 357 TOC pm 02:50 ThP 252 WP 549
Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad Lobue, Peter Locher, Kaspar	MP 472 TP 357 TOC pm 02:50 ThP 252 WP 549 MP 579
Llufrio, Liz	
Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad Lobue, Peter Locher, Kaspar. Lock, Chris. Lock, Nicole Lock, Stephen J. Lock, Stephen J. Lock, Megan.	
Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad. Lobue, Peter Locher, Kaspar. Lock, Chris. Lock, Nicole Lock, Stephen J. Lock, Stephen J. Locke, Megan. Lodder, Helen.	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Lock, Stephen J Lock, Megan Lodder, Helen	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Lock, Stephen J Locke, Megan Lodder, Helen Lodder, Helen Lodder, Helen	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Lock, Stephen J Lock, Megan Lodder, Helen	
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Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad Lobue, Peter Locher, Kaspar. Lock, Chris Lock, Stephen J. Lock, Stephen J. Locke, Megan Lodder, Helen.	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobdin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Locke, Megan Lodder, Helen	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Locke, Megan Lodder, Helen Lodter, Helen Lodter, Helen Lottus, Neil Loftus, Neil Loftus, Neil Loftus, Neil	
Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad. Lobue, Peter Locher, Kaspar. Lock, Chris. Lock, Nicole Lock, Stephen J. Locke, Megan. Lodder, Helen.	MP 472 TP 357 TOC pm 02:50 ThP 252 WP 549 MP 579 TP 073 ThOB am 09:10 MP 020 MP 535 ThP 119 MP 214 MP 391 TP 443 TP 445 TP 449 TP 464 MP 020 MP 037 MP 195 TP 195 TP 194
Llufrio, Liz. Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J. Locke, Megan Lodder, Helen Lodter, Helen Lodter, Helen Lodter, Helen Lodter, Helen Lodter, Helen Lodter, Helen Lottus, Neil Loftus, Neil	
Llufrio, Liz. Lobas, Anna Lobingier, Braden. Lobodin, Vlad Lobue, Peter Locher, Kaspar. Lock, Chris Lock, Stephen J. Lock, Stephen J. Locke, Megan. Lodder, Helen. Lofder, Helen. Loftus, Neil.	MP 472 TP 357 TOC pm 02:50 ThP 252 WP 549 MP 579 TP 073 ThOB am 09:10 MP 535 ThP 119 MP 214 MP 391 TP 443 TP 445 TP 449 TP 464 MP 020 MP 195 TP 194 TP 195 TP 194 MP 195 TP 194 TP 207 MP 713 MP 721 MP 726
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Locke, Megan Lodder, Helen Lodtus, Heilen Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Logothetis, Christopher Lohar, Anant	
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobdin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Locke, Megan Lodder, Helen Lodter, Helen Loftus, Neil Logothetis, Christopher Lohar, Anant Lohar, Anant	MP 472 TP 357 TOC pm 02:50 MP 579 TP 073 ThOB am 09:10 MP 020 MP 535 ThP 119 MP 214 MP 391 TP 443 TP 445 TP 446 MP 020 MP 037 MP 195 TP 194 TP 194 TP 195 MP 195 TP 196 MP 037 MP 197 MP 195 TP 194 TP 194 TP 194 TP 207 MP 713 MP 721 MP 456 MP 189 MP 456 MP 189 MP 677
Llufrio, Liz Lobas, Anna Lobingier, Braden Lobodin, Vlad Lobue, Peter Locher, Kaspar Lock, Chris Lock, Nicole Lock, Stephen J Locke, Megan Lodder, Helen Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Christopher Loftus, Neil Loftus, Neil Loftus, Neil Loftus, Neil Logthetis, Christopher Lohar, Anant Lohar, Anant Lohar, Anant	MP 472 TP 357 TOC pm 02:50 ThP 252 WP 549 MP 579 TP 073 ThOB am 09:10 MP 020 MP 535 ThP 119 MP 214 MP 391 TP 443 TP 445 TP 449 TP 464 MP 020 MP 037 MP 195 TP 195 TP 194 MP 071 MP 071 MP 195 TP 195 TP 194 TP 195 TP 196 MP 197 MP 713 MP 721 MP 456 MP 189 MP 677 TP 198
Llufrio, Liz. Lobas, Anna. Lobingier, Braden. Lobodin, Vlad. Lobue, Peter Locher, Kaspar. Lock, Chris. Lock, Nicole Lock, Stephen J. Locke, Megan. Lodder, Helen. Lodtus, Neil. Loftus, Anant. Lohar, Anant. Lohar, Anant. Lohar, Anant. Lohar, Anant.	MP 472
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Lyu, Rong-Ming Lyutvinskiy, Yaroslav		MacLean, Brendan MacLean, Brendan		Makepeace, Karl Makhoul, Issam	
Ma, Cheng		MacLean, Brendan		Mäkinen, Marko	
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Ma, Cynthia		MacVittie, Thomas		Malagrino, Pamella	
Ma, Danjun		Madden, Benjamin		Malakar, Dipanakar	
Ma, Danjun Ma, Eric		Madden, Stephen		Malakar, Dipanakar	
Ma, Eric		Madden, Stephen Madden, Stephen		Malakar, Dipanakar Malakar, Dipankar	
Ma, Fengfei		Madden, Stephen		Malakar, Dipankar	
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Ma, Sisi		Magnelli, Paula		Maljers, Louis Malkar, Aditya	
Ma, Wen Wee Ma, Xiaoxiao		Maguire, Bruce Mahaffy, Paul		Malker, Garth	
Ma, Xiaoxiao		Mahaffy, Paul		Malkoch, Michael	
Ma, Xiaoxiao		Mahan, Andrew		Mallard, Wm	
Ma, Xin		Mahan, Andy		Mallis, Christopher	
Ma, Xin		Mahan, Elizabeth A		Mallis, Larry	
Ma , Xin		Mahan, Elizabeth A		Mallis, Larry	
Ma, Xin		Mahat, Rajendra		Mallisho, Abdullah	
Ma, Xin		Maher, Simon		Mallory, Michael Malmberg, Per	
Ma , Xin Ma , Xin		Maher, Yosef Maheshwari, Shikhar		Maloney, Dan	
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MacCoss, Michael		Maia, Mauricio		Malvar, Oscar	
MacCoss, Michael		Maibom-Thomsen, Sheila.		Malvar, Oscar	
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MacCoss, Michael	WP 321	Maile, Tobias	TP 472	Man, Petr	ThP 633
MacCoss, Michael		Maimó-Barceló, Albert		Man, Zhuo	
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Mazzoleni, Lynn	ThP 249
McAlister, Graeme	MP 701
McAlister, Graeme	MP 529
McAlister, Graeme	TP 144
McAlister, Graeme	TP 641
McAlister, Graeme	TOO 10 10
McBride, Jacqueline	WOD am 08:30
McBride, William	WOD am 08:30 WOE pm 03:30
	WOD am 08:30 WOE pm 03:30

McBride, Zach	ThP 619	McKenna, Josiah	ThP 135	Medana, Claudio	WP 17
McCabe, Antony		McKenna, Josiah		Medatwal, Nihal	
IcCabe, Jacob		McKenna, Josiah		Medicetty, Satish	
IcCall, Eimear	MP 198	Mckenna, Kristin		Medin, Jeffrey	ThP 11
IcCall, Eimear	MP 200	McKenna, Thérèse	WP 069	Medina, Jessica	MP 50
IcCall, Laura-Isobel	MP 498	McKenzie, James	MP 298	Meding, Stephan	MP 52
IcCampbell, Alexander	ThP 115	McKenzie, James	WOF pm 04:10	Medley, Colin	TP 04
IcCarron, Pearse	WP 142	McKenzie, James	TP 022	Meengs, Brent	TP 05
IcCarter, John	MP 125	McKenzie, James	WOD am 09:30	Meesters, Roland	MP 50
IcCarthy, James	TP 344	McKerrow, James	MP 498	Meglioli, Matteo	MP 18
IcCarthy, Sean	WP 087	McLaren, David	ThP 216	Megutnishvili, Levan	TP 27
IcCarthy, Sean	ThP 254	McLaughlin, BethAnn	ThP 514	Mehaffey, M	MP 58
IcCaskill, David	WP 375	McLaughlin, Heather	TP 717	Meher, Anil	TP 43
IcCaskill, David	TOB pm 02:50	McLaughlin, Theresa	ThP 469	Mehl, John	TP 05
IcClarty, Grant	TP 302	McLaughlin, Tracey	WOA pm 02:50	Mehmood, Roasa	MP 62
IcClory, Phillip	WP 533	McLean, John	MP 367	Mehta, Anand	MP 30
IcClory, Phillip	ThP 537	McLean, John	MP 386	Mehta, Sajjan	ThP 35
IcClory, Phillip	ThP 538	McLean, John	MP 388	Mehta, Sajjan	MP 55
IcClung, Colleen	TP 560	McLean, John	MP 518	Mehta, Sajjan	MOC pm 02:5
IcClung, Colleen	ThP 585	McLean, John	TP 506	Mei, Xiaohu	MOE pm 04:1
lcComb, Mark	MP 059	McLean, John	TP 510	Meier, Florian	TP 14
IcComb, Mark	MP 333	McLean, John	ThP 403	Meier, Florian	TP 14
lcComb, Mark		McLean, John		Meier, Florian	
lcComb, Mark		McLean, John		Meier, Florian	
IcComb, Mark E		McLean, John		Meier, Florian	
IcConnell, Evan		McLean, John		Meija, Juris	
IcConnell, Evan		McLean, John		Meijers, Rob	
IcCool, Eli		Mclellan, Michelle		Meisinger, Chris	
IcCorrister, Stuart		McLendon, Michael		Meissner, Felix	
cCorrister, Stuart		McLerie, Meredith		Meißner, Felix	
IcCoy, Krista		McLuckey, Scott		Meitei, Ningombam	
IcCue, Molly		McLuckey, Scott		Meitei, Ningombam	
cCullagh, Mike		McLuckey, Scott		Meitei, Ningombam	
cDaniel, Justice		McLuckey, Scott		Meitei, Ningombam Sanjib	
cDermott, Sean		McLuckey, Scott		Meitei, Ningombam Sanjib	
cDonald, Alex		McLuckey, Scott		Meitei, Ningombam Sanjib	
cDonald, Alex		McLuckey, Scott		Mejare, Malin	
cDonald, Daniel		McLuckey, Scott		Mejia-Ospino, Enrique	
IcDonald, Jacob	•	McLuckey, Scott		Mejia-Ospino, Enrique	
IcDonald, Jacob		McLuckey, Scott		Mejía-Ospino, Enrique	
IcDonald, Jeffrey		McLuckey, Scott		Mekhssian, Kevork	
lcDonald, Jeffrey		McMahon, Adam		Mekhssian, Kevork	
cDonald, Karen		McMahon, Adam		Mekhssian, Kevork	
cDonnell, Liam		McMahon, Adam		Mekhssian, Kevork	
cDowell, Andrew		McMahon, Adam		Melamud, Eugene	
cEachran, Andrew		McMahon, William		Melander. Olle	
cElroy, Joseph		McMahon, William		Melani, Rafael	
cEvoy, Cynthia		McManus, Ciara		Melanson, Jeremy	
cEwan, Murray		McManus, Clara McManus, Francis		Melder, Teresa	
cEwan, Murray		McMillen, Chelsea		Melendez, Cathleen	
cEwan, Murray		McMinn, Madison		Mellacheruvu, Dattatreya	
cEwen, Charles N		McNary, Christopher	TI D = 10	Mellacheruvu, Dattatreya	
cFadden, Meghan		McNulty Doop		Mellacheruvu, Dattatreya	
cFarland, Melinda		McNulty, Dean McQuate, Kathleen		Mellacheruvu, Dattatreya	
cFeely, Clinton				Mellor, Steve	
cGibbon, Graham		McVey, Patrick		Mellors, J	
cGill, S		McWilliams, Lisa		Mellors, J	
cGowan, Thomas		Mead, Oliver		Mellors, J. Scott	
cGowan, Thomas		Meads, Mark		Mellors, J. Scott	
cGowan, Thomas		Meaney, Michael		Mellors, Scott	
IcGowan, Thomas		Mechref, Yehia		Mellors, Scott	
cGregor, Laura		Mechref, Yehia		Melnik, Alexey	
cGregor, Laura		Mechref, Yehia		Melnik, Alexey	
cGrosso, Dominic		Mechref, Yehia		Melnik, Alexey	
cGuiness, Daniel		Mechref, Yehia		Melo, Carlos Fernando	
cGuiness, Daniel		Mechref, Yehia		Melo, Carlos Fernando	
cGuire, Jeffrey		Mechref, Yehia		Menasco, Dan	
cHale, Kevin		Mechref, Yehia		Menasco, Dan	
cHugh, Timothy	ThP 483	Mechref, Yehia	MP 083	Menasco, Dan	
cllvin, Matthew	MP 701	Mechref, Yehia	MP 085	Mendelsohn, Brian	TP 04
cilwain, Sean	WP 198	Mechref, Yehia	MP 086	Mendes, Fausto	WP 48
Icllwain, Sean		Mechref, Yehia		Mendes, Maria Anita	
cIntire, Gregory		Mechref, Yehia		Mendes, Maria Anita	
cIntire, Gregory		Mechref, Yehia		Mendes, Maria Anita	
		Mechref, Yehia		Mendes, Maria Anita	
cIntosh David	WP 345				
IcIntyre, W	WP 158	Mechref, Yehia	MP 098	Mendes, Maria Anita	WP 48
IcIntosh, David IcIntyre, W IcKay, Matthew IcKellar, Thomas	WP 158 TP 151		MP 098 ThP 706		WP 48 aMP 16

Program code: M,T,W,Th = Day

Mendoza, Luis	
Mendoza, Luis	TOA am 09:10
Meng, Chen	
Meng, Chen	
Meng, Fanyu	
Meng, Jia-Ming	TOA am 10:10
Meng, Le	WP 235
Meng, Le	
Meng, Le	
Meng, Min	TP 683
Meng, Min	ThP 456
Meng, Min	TP 548
Mengis, Stephanie	ThP 361
Menin, Laure	
Mennito, Anthony	
Menzies, Eleanor	MP 226
Merel, Sylvain	ThP 150
Merel, Sylvain	
Mergner, Julia	
Meric, Gulsum	
Merideth II, Gaston	MP 010
Merkl, Rainer	ThOE am 09:50
Merrihew, Gennifer	
Mertens, Bart	
Mertz, Joseph	
Meruva, Naren	
Mesaros, Clementina	TOC pm 03:10
Mesker, Wilma	MP 106
Mestdagh, Helene	
Mesuere, Bart	
Metalnikov, Pavel	
Metalnikov, Pavel	MP 709
Metternich, Jonas	WP 366
Metwally, Haidy	WOH pm 04:10
Mate Therese	WOIT PITE 04.10
Metz, Thomas	
Metz, Thomas	
Metzler, Guille	ThP 046
Metzler, Luke	
Meulenberg, Stacey	WP 202
Meunier, David	
Meyer, Jesse	
Meyer, Kevin	
Meyer, Klaus	MP 389
·	
Mever. Markus	
Meyer, Markus	MP 720
Meyer, Matthew	MP 720 ThP 565
Meyer, Matthew Meyer, Stefanie	MP 720 ThP 565 WP 453
Meyer, Matthew Meyer, Stefanie Meyer, Sven	MP 720 ThP 565 WP 453 MP 389
Meyer, Matthew Meyer, Stefanie	MP 720 ThP 565 WP 453 MP 389
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454
Meyer, Matthew Meyer, Stefanie Meyer, Sven Meyer, Sven Mezey, Jakub	MP 720ThP 565WP 453MP 389WP 454 ThOA am 08:50
Meyer, Matthew	MP 720ThP 565WP 453MP 389WP 454 ThOA am 08:50TP 177
Meyer, Matthew	
Meyer, Matthew	
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514
Meyer, Matthew	
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 204 WP 209
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 209 TP 121 MP 553 WP 204 TP 630 TP 630 TP 630 TP 630 TP 630 TP 630
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 209 MP 121 MP 553 MP 121 MP 553 MP 482 ThP 436 ThOF am 09:30 MP 134
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453 TP 635
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 633 TP 553 ThP 317 TP 633 WP 204 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 623 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453 TP 633 TP 633 TP 633
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 633 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 204 MP 121 MP 553 ThP 317 TP 633 TP 633 TP 633 TP 553 ThP 317 TP 633 TP 633 TP 635 MP 635 TP 635 MP 633 TP 635
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 632 TP 273 MP 140 TP 633 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 456 ThOF am 09:30 MP 134 WP 453 TP 635 MP 633 TP 635 MP 633 TP 635
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 633 TP 553 ThP 317 TP 633 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453 TP 635 MP 633 ThP 551 TP 635 MP 633 ThP 551 TP 556
Meyer, Matthew	MP 720 ThP 565 WP 453 MP 389 WP 454 ThOA am 08:50 TP 177 WP 181 TP 126 WP 514 WP 514 WP 050 TP 632 TP 270 MP 140 TP 617 TP 633 TP 553 ThP 317 TP 633 WP 204 WP 204 WP 209 MP 121 MP 553 WP 482 ThP 436 ThOF am 09:30 MP 134 WP 453 TP 635 MP 633 ThP 203 ThP 551 TP 556 MP 633 TP 551 MP 635 MP 633 ThP 203 ThP 551 TP 546 WP 268 TP 350

Midey, Anthony		
		WP 17
Midey, Anthony	WOR	am 09:5
Migas, Lukasz		TD 03
Migas, Lukasz		
Migas, Lukasz	. WOF	am 10.1
Migas, Lukasz	10F	am 09:3
Migliavacca, Eugenia		
Mignolet, Benoit	TOF	am 09:5
Mignon, Rudolph		WP 41
Mihasan, Marius		WP 49
Mikaia, Anzor		TP 27
Mikhailov, Victor		ThP 62
Mikhaylova, Marina		WP 71
Mikheenko, Alla		WP 46
Miki , Akihiro		WP 35
Miki . Akiko		
Miladi, Mahsan		
Milano, Hannah		
Milanowski, Dennis		INP 02
Milentyev, Alexander		IP 57
Miles, William		
Miletić, Jadranka		
Miley, Galen		
Milhans, Jackie		WP 32
Milkovich, Kristina		MP 36
Millat, Thomas		MP 49
Millat, Thomas		ThP 22
Miller, Andrew		WP 67
Miller, Christopher		WP 54
Miller, Colbert		TP 41
Miller, Dennis	MOD	am ∪ຄ.ລ 1 — 1
Miller, Eugene		
Miller, Gary	100	am 09:3
Miller, Jeffery		WP 46
Miller, Jimar		
Miller, Ken		TP 65
Miller, Logan		MP 22
Miller, Logan		MP 15
Miller, Logan		WP 16
Miller. Luke		TP 46
Miller, Luke	WOD	am 09:5
Miller, Luke	WOD	am 09:5
Miller, Luke Miller, M	WOD	am 09:5 WP 15
Miller, Luke Miller, M Miller, Marcia	WOD	am 09:5 WP 15 TP 48
Miller, Luke Miller, M Miller, Marcia Miller, Russell	WOD	am 09:5 WP 15 TP 48 WP 69
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott.	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26 WP 04
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26 WP 04 ThP 14
Miller, Luke	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26 WP 04 ThP 14
Miller, Luke	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26 WP 04 TP 16 TP 16
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert. Millikin, Robert.	WOD	am 09:5 WP 15 TP 48 WP 69 MP 26 WP 04 ThP 14 TP 16 WP 68
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Milliington, David	WOD	am 09:5 WP 15 TP 48 WP 69 WP 04 ThP 14 TP 16 WP 68 ThP 52 WP 05
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millington, David Mills, Caitlin	WOD	am 09:5 WP 15 TP 48 WP 69 WP 04 ThP 14 TP 16 WP 68 ThP 52 WP 05
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millikin, Robert Millington, David Mills, E. N. C	WOD	am 09:5WP 15TP 48WP 69MP 26WP 04ThP 14TP 16WP 68ThP 52WP 05WP 05
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millikin, Robert Millington, David Mills, E. N. C	WOD	am 09:5WP 15TP 48WP 69MP 26WP 04ThP 14TP 16WP 68ThP 52WP 05WP 05
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott. Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millikin, Robert. Millikin, Robert. Millikin, Coutin	WOD	am 09:5WP 15TP 48WP 69MP 26WP 04ThP 14TP 16WP 68WP 05WP 05WP 58MP 18 am 09:3
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Milliington, David	. MOE	am 09:5WP 15TP 48WP 69MP 26WP 04ThP 14TP 16WP 68WP 52WP 55WP 58MP 18 am 09:3ThP 48
Miller, Luke Miller, M. Miller, Marcia Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millishin, Robert Millikin, Robert Milliston, David Mills, Caitlin Mills, E. N. C Mills, E. N. C Mills, John Mills, Robert	. MOE	am 09:5WP 15WP 148WP 69MP 26WP 04ThP 14TP 16WP 68ThP 52WP 05WP 05MP 18 am 09:3ThP 48
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millikin, Robert Millikin, Robert Millikin, Robert Millikin, Robert Millis, E. N. C Mills, E. N. C Mills, John Mills, Sobert Mills, Sobert Millward, Niki	. MOE	am 09:5WP 15YP 48WP 69WP 04ThP 14TP 16WP 68WP 05WP 58MP 18 am 09:3ThP 48WP 69
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millikin, Robert Millikin, Robert Millikin, Robert Millis, Caitlin Mills, E. N. C Mills, E. N. C Mills, John Mills, Sobert Mills, John Mills, Robert Millward, Niki Milner, Thomas	. MOE	am 09:5WP 15YP 48WP 69WP 69WP 04ThP 14TP 16WP 68WP 05WP 58MP 18 am 09:3ThP 48WP 69WP 61
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Milliston, David Mills, E. N. C. Mills, E. N. C. Mills, John Mills, Robert Mills, Robert Mills, Todd Mills, Gentin	. MOE	am 09:5WP 15WP 15TP 48WP 69WP 04ThP 14TP 16WP 68WP 65WP 05WP 05WP 05WP 05WP 05WP 05WP 05WP 40MP 11 am 09:3
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert. Millish, Robert. Millish, Caitlin Mills, Caitlin Mills, E. N. C. Mills, E. N. C. Mills, John Mills, Robert. Millish, John Mills, Robert. Millosavjevic, Aleksandar. Milosavjevic, Aleksandar. Milton, Jacob	. MOE	am 09:5WP 15YP 48WP 69WP 04WP 04ThP 14TP 16WP 05WP 05WP 05WP 58MP 18 am 09:3ThP 48WP 69WP 69MP 11 am 08:3MP 11 am 08:3MP 12
Miller, Luke Miller, M. Miller, Marcia Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millish, Robert. Millish, Robert. Millish, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, Bencellish, Robert. Mills, E. N. C. Mills, E. N. C. Mills, Hencellish, Mills, E. N. C. Mills, Hencellish, Mills, Miller, Thomas Mills, Aleksandar. Millosavljevic, Aleksandar.	. MOE	am 09:5WP 15WP 69WP 69WP 69WP 04ThP 14TP 16WP 68WP 68WP 68WP 58WP 58WP 58WP 11 am 08:3MP 24MP 24
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Milligan, Daniel Millishin, Robert Millishin, Robert Millish, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, Bedert Millisher, Thomas Milosavljevic, Aleksandar Milosavljevic, Aleksandar Milon, Jacob Min, Lie Mineva, Ekaterina	MOE	am 09:5WP 15WP 69WP 69WP 69WP 04ThP 14ThP 16WP 68WP 68WP 58WP 58MP 18 am 09:3ThP 49MP 11 am 08:3MP 24WP 63
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millis, Caitlin Mills, E. N. C. Mills, E. N. C. Mills, John Mills, John Mills, Tobert Millward, Niki Milner, Thomas Milosavljevic, Aleksandar Milton, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose	MOE	am 09:5WP 15WP 69WP 69WP 04Th 14Th 16WP 05WP 05WP 05WP 05WP 18 am 09:3ThP 48WP 69WP 69WP 645WP 65WP 67WP 68WP 69WP 68WP 68WP 68
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Milligan, Daniel Milligan, David Milligan, David Milligan, David Milligan, Caitlin Mills, Caitlin Mills, Caitlin Mills, E. N. C. Mills, John Mills, John Mills, John Mills, Robert Millward, Niki Milner, Thomas Milosavljevic, Aleksandar Milton, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose Minkoff, Benjamin	MOE	am 09:5WP 15YP 48WP 69WP 04TP 16YP 16WP 05WP 05WP 05WP 05WP 11 am 09:3TP 48WP 69MP 24WP 63MP 24WP 63MP 24WP 63MP 24
Miller, Luke Miller, M. Miller, Marcia Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Millikin, Robert. Millikin, Robert. Millis, Caitlin Mills, Caitlin Mills, E. N. C. Mills, E. N. C. Mills, John Mills, Robert. Millward, Niki Miller, Thomas Milosavijevic, Aleksandar. Milton, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose. Minkoff, Benjamin. Minkoff, Benjamin.	. MOE	am 09:5WP 15WP 16WP 69WP 04WP 04ThP 14TP 16WP 05WP 05WP 05WP 05WP 18MP 18MP 18MP 19MP 19MP 10MP 10
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millikin, Robert. Millis, Robert. Millis, Caitlin Mills, Caitlin Mills, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, Robert. Miller, Thomas Mills, Robert. Miller, Thomas Milosavljevic, Aleksandar. Milosavljevic, Aleksandar. Milton, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose Minkoff, Benjamin. Minkoff, Benjamin. Minnier, Jessica.	. MOE	am 09:5WP 15YP 48WP 69WP 04ThP 14ThP 16WP 68ThP 52WP 05WP 68ThP 58WP 69MP 18 am 09:3ThP 48WP 69MP 16 am 08:3ThP 08ThP 08ThP 08
Miller, Luke Miller, M. Miller, Marcia Miller, Marcia Miller, Russell Miller, Scott. Miller, Scott. Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millis, Robert. Millis, Robert. Millis, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, Benjamin. Millore, Thomas Milosavljevic, Aleksandar. Millore, Jose Minkoff, Benjamin. Minkoff, Benjamin. Minnier, Jessica. Minnier, Jessica. Minnier, Jessica. Minnier, Jessica. Minnier, Jessica. Minnohata, Toshikazu.	MOE	am 09:5WP 15WP 16WP 69WP 04WP 04ThP 14ThP 16WP 68WP 68WP 68WP 68WP 68WP 11 am 08:3MP 24WP 69MP 16 am 09:3ThP 08ThP 08ThP 08ThP 08
Miller, Luke Miller, M. Miller, M. Miller, Marcia Miller, Russell Miller, Scott Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millis, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, E. N. C. Mills, John Mills, E. N. C. Mills, John Mills, E. N. C. Mills, E. N. C. Mills, John Mills, E. N. C. Mills, Benjamin, Millon, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose Minkoff, Benjamin Minkoff, Benjamin Minnier, Jessica Minnier, Jessica Minnier, Jessica Minnohata, Toshikazu Minohata, Toshikazu	MOE	am 09:5WP 15WP 69WP 69WP 04ThP 14ThP 15WP 68WP 68WP 05WP 58WP 18 am 09:3ThP 52WP 69WP 63WP 63MP 24WP 63MP 16WP 63MP 24WP 63MP 16WP 63MP 16WP 63MP 17WP 63MP 18WP 63MP 19WP 13
Miller, Luke Miller, M. Miller, Marcia Miller, Russell Miller, Russell Miller, Scott Miller, Todd Milligan, Daniel Milligan, Daniel Milligan, Daniel Millikin, Robert Millikin, Robert Millikin, Robert Millis, E. N. C Mills, E. N. C Mills, E. N. C Mills, John Mills, Fobert Millorard, Niki Milner, Thomas Milosavljevic, Aleksandar Milton, Jacob Min, Lie Mineva, Ekaterina Minguez, Jose Minkoff, Benjamin Minnohata, Toshikazu Minohata, Toshikazu Minohata, Toshikazu Minohata, Mindal	MOE WOH	am 09:5WP 15WP 69WP 69WP 64WP 64WP 68WP 68WP 58WP 58WP 58WP 58WP 69WP 68WP 69WP 69WP 63WP 63
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Misal, Santosh Mishima, Yuji		
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Witok, Kelly		ThP 681
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Middenovic, Katarina	.WOF _I	TP 627 MP 222 WP 558 TP 099 pm 04:10
Miyagi, Masaru	.WOF	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681
Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan	.WOF į	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin	.WOF I	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681 .ThP 013 .ThP 574
Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mockler, Todd	.WOF I	TP 627MP 222WP 558TP 099 pm 04:10WP 165TP 681 .ThP 013 .ThP 574WP 133
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Midadenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mookler, Todd Modarelli David	.WOF I	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681 TP 574 WP 133 MP 582 MP 548
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Midadenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mookler, Todd Modarelli David	.WOF I	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681 TP 574 WP 133 MP 582 MP 548
Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Midadenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mookler, Todd Modarelli David	.WOF I	TP 627 MP 222 WP 558 TP 099 pm 04:10 WP 165 TP 681 TP 574 WP 133 MP 582 MP 548
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyazawa, Hidenobu Midadenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mookler, Todd Modarelli David	TOA	TP 627 MP 222 WP 558 TP 099 om 04:10 WP 165 TP 681 TP 574 WP 133 MP 582 MP 582 MP 523 TP 237 TP 389 am 08:33 TP 688
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyataa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mockler, Todd Modarelli, David Moehring, Thomas	TOA a	TP 627MP 222WP 558TP 098 ppm 04:16WP 165TP 681 ThP 013MP 572WP 135MP 548TP 507MP 523ThP 523ThP 237TP 388 am 08:30MP 683TP 443TP 4556
Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyata, Yuka Miyatawa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mockler, Todd Modarelli, David Moehring, Thomas Moehring	TOA a	TP 627MP 222WP 558TP 098 pm 04:16WP 165TP 681 .ThP 013 .ThP 574WP 133MP 548TP 557MP 548TP 237TP 237TP 238TP 238TP 328TP 328TP 328TP 328TP 356TP 356TP 356TP 356TP 356TP 556TP 556
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Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyata, Hidenobu Miladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moobley, Charles Mockler, Todd Modarelli, David Moehring, Thomas M	TOA	TP 627MP 222WP 558TP 099 pm 04:11WP 168TP 681 .ThP 013 .ThP 572WP 133MP 582MP 582TP 383 am 08:33TP 625TP 385 am 08:35TP 143MP 556WP 040TP 518
Miyagi, Masaru Miyaguchi, Hajime Miyaguchi, Hajime Miyata, Yuka Miyata, Yuka Miyazawa, Hidenobu Mladenovic, Katarina Mo, Chenglin Mo, Hsiao-Hsuan Mo, Jingjie Moazami, Yasamin Mobley, Charles Mockler, Todd Modarelli, David Moehring, Thomas	TOA a	TP 627MP 222WP 558TP 098 pm 04:16WP 165TP 681 ThP 013MP 582MP 582MP 582MP 583MP 583MP 683Th 956TP 668TP 596MP 683TP 456MP 683TP 456MP 683MP 683MP 683MP 683MP 683MP 683MP 683MP 683
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi O'Maille, Paul O'Meally, Robert	TP 061 TP 069 ThP 669 ThP 130 TOA pm 03:50 TP 679
Olsson, Fredrik	TP 061 TP 069 ThP 669 ThP 130 TOA pm 03:50 TP 679
Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi O'Maille, Paul O'Meally, Robert	TP 061TP 069ThP 669ThP 130TOA pm 03:50TP 679MP 625
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi O'Maille, Paul. O'Meally, Robert. O'Meally, Robert. O'Mealy, Robert. O'Mealy, Robert. O'Mealy, Robert. O'Mell, Kelly O'Neill, Kelly	
Olsson, Fredrik	TP 061TP 069ThP 669ThP 130TOA pm 03:50TP 679MP 625MP 534WP 159MP 216MP 218MP 218
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul. O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meally, Robert Onder, Ozlem O'Neill, Kelly O'Neill, Kelly Onderwater, Gerrit. Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary	
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert Onder, Ozlem. O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly Onderwater, Gerrit. Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjoco, Toshi Onodera, Jun	TP 061TP 069TP 069TP 669TNP 130TOA pm 03:50TP 679MP 625MP 534WP 159MP 216MP 218TP 471TP 672WP 327MOC am 09:30TP 495ThP 495ThP 502ThP 430
Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meill, Relly O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly O'Neill, Gerrit Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Toshi Onodera, Jun Onsongo, Getiria	TP 061TP 069TP 069ThP 669ThP 130TOA pm 03:50TP 679MP 625MP 534WP 159MP 218ThP 471TP 672WP 327 .MOC am 09:30ThP 495ThP 495ThP 430ThP 430MP 262TP 365
Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert Onder, Ozlem O'Neill, Kelly O'Neill, Kelly Orderwater, Gerrit Ong, Irene Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Ono, Toshi Onodera, Jun Onsongo, Getiria Onwuha-Ekpete, Lillian	TP 061TP 069TP 069ThP 669ThP 130TOA pm 03:50TP 679MP 625MP 534WP 159MP 218ThP 471TP 672WP 327 MOC am 09:30ThP 495ThP 495ThP 430MP 262TP 365TP 365
Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meally, Robert Onder, Ozlem O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly Onderwater, Gerrit Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Ono, Toshi Onodera, Jun Onsongo, Getiria Onwuha-Ekpete, Lillian Ooi, Lezanne	TP 061TP 069TP 069ThP 130TP 679MP 625MP 534WP 159MP 216MP 218TP 471TP 672WP 327MOC am 09:30TP 495TP 430MP 262TP 365TP 365TP 687
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meill, Kelly O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly Onderwater, Gerrit Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Gosemary Onjiko, Rosemary Onjiko,	TP 061TP 069TP 069ThP 669ThP 130TOA pm 03:50TP 679MP 625MP 534WP 159MP 216MP 218ThP 471TP 672WP 327 MOC am 09:30ThP 495ThP 495ThP 502ThP 430MP 262TP 365ThP 687WP 281TP 245MP 432TP 544TP 544TP 544
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Olsson, Fredrik Olsson, Niclas Oluwole, Oluwafemi. O'Maille, Paul O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meally, Robert O'Meill, Kelly O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly O'Neill, Kelly Onderwater, Gerrit Ong, Irene Ongjoco, Alexandria Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Rosemary Onjiko, Gosemary Onjiko, Rosemary Onjiko,	TP 061TP 069ThP 669ThP 130TP 679MP 625MP 534WP 159MP 216MP 218ThP 471TP 672WP 327 MOC am 09:30ThP 495ThP 502ThP 430MP 262ThP 430MP 262ThP 430MP 262TP 365ThP 687WP 281TP 245MP 432TP 245MP 430TP 344TOH am 08:30TOH am 08:30TOH am 08:30

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Osme, Abdullah Osteikoetxea, Xabier Oster, Markus Østergaard, Ole	TP 606 ThP 453 TOD pm 04:10
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Osme, Abdullah	TP 606ThP 453TOD pm 04:10MP 03 .WOE am 08:30ThP 526
Osme, Abdullah	TP 606ThP 453TOD pm 04:10MP 03 .WOE am 08:30ThP 526WP 643
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MOD	pm 04:10
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MOF	am 10:10
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Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Pierini, Christopher Piersimoni, Lolita. Pierson, Elizabeth. Pierson, Nicholas. Pierzchalski, Keely. Pietrantonio, Filippo	MOF	WP 13 TP 16 WP 51 ThP 22 MP 06 ThP 28 pm 03:1 WP 37 WP 37 WP 38 pm 03:1 WP 11
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Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Pierni, Christopher Piersimoni, Lolita Pierson, Elizabeth Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Nicholas Pierson, Piinpo, Pigozzo, Fausto Pillai, Jagan Pillai, Manoj	MOF	WP 13 TP 16 WP 51 ThP 22 MP 06 ThP 28 pm 03:1 WP 21 WP 37 WP 38 pm 03:1 MP 10 MP 10
Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Piergiovanni, Maurizio Pierni, Christopher Piersimoni, Lolita. Pierson, Elizabeth. Pierson, Nicholas.	MOF	WP 13TP 16WP 51ThP 22MP 06ThP 28 pm 03:1WP 21WP 37WP 38 pm 03:1MP 10MP 10TP 50MP 48
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Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Piergiovanni, Maurizio Pierini, Christopher Piersimoni, Lolita	MOF	WP 13TP 16WP 51ThP 22MP 06ThP 28 pm 03:1WP 21WP 37WP 38 pm 03:1MP 11MP 10TP 50MP 48ThP 11WP 06TP 37
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Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Piergiovanni, Maurizio Pierini, Christopher Piersimoni, Lolita	MOF	WP 13TP 16WP 51ThP 22MP 06ThP 28 pm 03:1WP 27WP 37WP 37WP 38 pm 03:1MP 11MP 10TP 50TP 50TP 48ThP 11WP 06TP 50TP 37 am 10:1TP 05TP 05TP 05
Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Piergiovanni, Maurizio Pierni, Christopher Piersimoni, Lolita. Pierson, Elizabeth. Pierson, Richolas. Pierson, Nicholas. Pierzon, Richolas. Pierzon, Nicholas. Pierson, Nicholas. Piellai, Jagan Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillo, Alice Pinentel, Adam	MOF	WP 13TP 16WP 51ThP 22MP 06ThP 28 pm 03:1WP 21WP 37WP 38 pm 03:1MP 11MP 10TP 50MP 48ThP 11WP 06TP 37 am 10:1TP 05TP 19WP 19
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Pierce, Joshua Piergiovanni, Maurizio Piergiovanni, Maurizio Piergiovanni, Maurizio Pierni, Christopher Piersimoni, Lolita. Pierson, Elizabeth. Pierson, Nicholas. Pillapo Pillai, Jagan Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Manoj Pillai, Kanoj Pillai, Manoj Pillai	MOF	WP 13TP 16WP 51ThP 22MP 06ThP 28 pm 03:1WP 37WP 37WP 38 pm 03:1MP 11MP 10TP 50MP 42MP 48ThP 11TP 05ThP 37 am 10:1TP 05TP 19WP 31 pm 04:1 pm 04:1 pm 04:1ThP 06ThP 10TP 10
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Plotnick, David	
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThOC am 09:30 ThP 281
Plotnick, David	WP 107 ThP 502 TP 632 MP 427 MP 705 MP 662 MP 665 TP 663 ThOC am 09:30 ThP 281 WP 416
Plotnick, David	WP 107 ThP 502 TP 632 MP 427 MP 705 MP 662 MP 665 TP 663 ThOC am 09:30 ThP 281 WP 416
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThOC am 09:30 ThP 281 WP 416 WOD pm 02:30
Plotnick, David	WP 107
Plotnick, David	WP 107
Plotnick, David	WP 107
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThOC am 09:30 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 WP 576
Plotnick, David	WP 107 ThP 502 MP 639 MP 427 MP 705 MP 662 MP 665 TP 663 TP 663 ThOC am 09:30 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096
Plotnick, David	WP 107 ThP 502 MP 639 MP 427 MP 705 MP 662 MP 665 TP 663 TP 663 ThOC am 09:30 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096
Plotnick, David	WP 107
Plotnick, David	WP 107 ThP 502 MP 427 MP 705 MP 662 MP 665 TP 663 TP 663 TP 663 TP 663 TP 663 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 326 WP 453
Plotnick, David	WP 107
Plotnick, David	WP 107 ThP 502 MP 427 MP 705 MP 662 MP 665 TP 663 TP 663 MP 303 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 103 MP 438 WP 453 WP 453 WP 715 WP 438 TP 135 WP 438 TP 1355 WP 438 TP 355 WP 496 ThP 189
Plotnick, David	WP 107 ThP 502 MP 427 MP 705 MP 662 MP 665 TP 663 TP 663 MP 303 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 103 MP 438 WP 453 WP 453 WP 715 WP 438 TP 135 WP 438 TP 1355 WP 438 TP 355 WP 496 ThP 189
Plotnick, David	WP 107 ThP 502 TP 632 MP 427 MP 705 MP 662 MP 665 TP 663 Th 633 ThO 230 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 TP 135 MP 096 TP 063 TP 135 MP 096 TP 135 MP 095 WP 326 WP 453 WP 715 WP 438 TP 175 WP 438 TP 189 ThP 189 ThP 189
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThO 303 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 326 WP 418 WP 715 WP 438 TP 355 WP 438 TP 355 WP 438 TP 355 WP 418 ThP 189 ThP 189 ThP 190 MP 518
Plotnick, David	WP 107
Plotnick, David	WP 107
Plotnick, David	WP 107
Plotnick, David	WP 107 ThP 502 MP 427 MP 705 MP 662 MP 665 TP 663 TP 639 MP 665 TP 663 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 453 WP 715 WP 438 TP 135 WP 496 ThP 189 ThP 189 ThP 190 MP 518 TP 506 MP 364 TP 664
Plotnick, David	WP 107 ThP 502 TP 632 MP 427 MP 705 MP 662 MP 665 TP 663 TP 67 MP 705 MP 67 MP 67 MP 685 MP 685 MP 981 WP 416 WOD pm 02:30 WOH am 08:50 MP 173 WP 576 MP 096 TP 135 MP 096 TP 135 MP 095 WP 453 WP 715 WP 438 TP 355 WP 496 ThP 189 ThP 190 MP 518 TP 506 MP 364 TP 664 TP 664 TP 664
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 326 WP 456 WP 456 MP 175 WP 476 MP 096 TP 189 ThP 189 ThP 189 TP 518 MP 364 TP 664 TP 242 ThP 363
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 326 WP 456 WP 456 MP 175 WP 476 MP 096 TP 189 ThP 189 ThP 189 TP 518 MP 364 TP 664 TP 242 ThP 363
Plotnick, David	WP 107 ThP 502 TP 639 MP 427 MP 705 MP 662 MP 665 TP 663 ThO 303 ThP 281 WP 416 WOD pm 02:30 WOH am 08:50 ThP 173 WP 576 MP 096 TP 063 TP 135 MP 095 WP 345 WP 458 WP 715 WP 458 TP 178 WP 496 ThP 189 ThP 189 ThP 189 MP 364 TP 664 TP 664 TP 664 TP 663 TP 664 TP 664 TP 242 ThP 363 WP 449
Plotnick, David	WP 107

Politis, Argyris	ThOC am 08:30
Politis, Argyris	
Pollum, Laura	ThP 380
Pollum, Laura	TOG am 08:30
Polonsky, Nevo	
Polt, Robin	
Poltash, Michael	WP 028
Poltash, Michael	
Polyakova, Olga	ThP 146
Polyakova, Olga	
Polyakova, Olga	.MOD pm 02:50
Pomfret, Aislinn	ThP 498
Damas and Date	TLD 005
Pompach, Petr	
Pompach, Petr	ThP 633
Ponten, Frederik	
Poole, Alisha	ThP 667
Poole, Farris	WP 121
Poole, Justen	
Poole, Justen	TOD pm 02:50
Pope, Brigham	
- Drighain	
Pope, Brigham	ThP 414
Pope, Shawn	ThOG pm 03:10
Popescu, Laurentiu	
Pophristic, Milan	.MOD am 08:50
Pophristic, Milan	
- opiniono, iviliani	IF 43U
Pophristic, Milan	
Popov, Igor	
Popov, Igor	
Popov, Igor	WP 120
Popov, Igor	ThD 320
Popov, Igor	
Popov, Igor	WP 215
Popov, Igor	WD 577
Popov, Igor	WP 590
Popov, Igor	TP 396
Popov, Igor	
Popov, Konstantin	ThP 054
Popov, Roman	
Popp, Julius	ThP 653
Popp, Robert	MD 626
Popp, Robert	ThP 654
Popp, Robert	ThP 654
Popp, Robert Porcari, Andréia	ThP 654 MP 286
Popp, Robert Porcari, Andréia Porcari, Andréia	ThP 654 MP 286 .ThOF pm 02:50
Popp, Robert Porcari, Andréia Porcari, Andréia	ThP 654 MP 286 .ThOF pm 02:50
Popp, Robert Porcari, Andréia Porcari, Andréia Porta, Tiffany	ThP 654 MP 286 .ThOF pm 02:50 MP 118
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30ThP 495ThP 495
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495TP 420TOD pm 03:50
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 598 WP 712
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 598 WP 712
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 MP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 598 WP 712 ThP 329 ThP 334
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386 .MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 334ThP 334
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108MO am 09:30ThP 495TOD pm 03:50WP 598WP 712ThP 329ThP 329ThP 451TP 251
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108MO am 09:30ThP 495TOD pm 03:50WP 598WP 712ThP 329ThP 329ThP 451TP 251
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108MP 386MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 329ThP 334ThP 351ThP 351TP 251
Popp, Robert	
Popp, Robert	
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 329ThP 334ThP 451TP 251TOB am 08:50WP 643ThP 135
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 324ThP 334ThP 451TP 251TOB am 08:50WP 642
Popp, Robert	
Popp, Robert	
Popp, Robert	
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 712 ThP 334 ThP 334 ThP 451 TP 251 TOB am 08:50 WP 643 ThP 135 TP 622 TP 066 ThP 654
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 329ThP 334ThP 334ThP 451TP 251TOB am 08:50WP 643ThP 135TP 622TP 666ThP 654ThP 654ThP 222
Popp, Robert	ThP 654MP 286 ThOF pm 02:50MP 118MP 307WP 292 ThOF am 09:50ThP 108WP 386MOC am 09:30ThP 495TP 420TOD pm 03:50WP 598WP 712ThP 329ThP 334ThP 334ThP 451TP 251TOB am 08:50WP 643ThP 135TP 622TP 666ThP 654ThP 654ThP 222
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 MP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 598 WP 712 ThP 329 ThP 334 ThP 451 TP 251 TOB am 08:50 WP 622 TP 666 ThP 654 ThP 222 WP 121 MP 494
Popp, Robert	
Popp, Robert	
Popp, Robert	
Popp, Robert	ThP 654
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 712 MP 334 ThP 334 ThP 451 TP 251 TOB am 08:50 WP 643 ThP 135 TP 662 TP 066 ThP 654 ThP 222 WP 121 MP 494 TP 576 TP 265 TP 266 TP 266 TP 266 TP 266 TP 266 TP 266
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 712 MP 334 ThP 334 ThP 451 TP 251 TOB am 08:50 WP 643 ThP 135 TP 662 TP 066 ThP 654 ThP 222 WP 121 MP 494 TP 576 TP 265 TP 266 TP 266 TP 266 TP 266 TP 266 TP 266
Popp, Robert	ThP 654 MP 286 ThOF pm 02:50 MP 118 MP 307 WP 292 ThOF am 09:50 ThP 108 WP 386 MOC am 09:30 ThP 495 TP 420 TOD pm 03:50 WP 712 ThP 334 ThP 451 TP 251 TOB am 08:50 WP 622 TP 066 ThP 622 MP 112 MP 494 TP 576 TP 265 TP 266
Popp, Robert	ThP 654
Popp, Robert	ThP 654
Popp, Robert	ThP 654
Popp, Robert Porcari, Andréia Porcari, Andréia Porta, Tiffany Porta, Tiffany Porta, Tiffany Porta, Tiffany Porta, Tiffany Porter, Jacob Porter, Jacob Portero, Erika Pospisilova, Veronika Pospisilova, Veronika Post, Harm Post, Harm Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potensin, Sergey Poth, Aaron Potter, Gregory K Potts, Gregory K Pötz, Oliver Poudel, Saroj Poudel, Saroj Poudel, Suresh Poulogiannis, George Poulogiannis, George Poulsma, John Powellt, Nicole Powell, Matthew Powell, Matthew Powell, Matthew Powell, Matthew Powell, Thomas	ThP 654
Popp, Robert	ThP 654
Popp, Robert Porcari, Andréia Porcari, Andréia Porta, Tiffany Porta, Tiffany Porta, Tiffany Porta, Tiffany Porta, Tiffany Porter, Jacob Porter, Jacob Portero, Erika Pospisilova, Veronika Pospisilova, Veronika Post, Harm Post, Harm Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potapov, Alexander Potensin, Sergey Poth, Aaron Potter, Gregory K Potts, Gregory K Pötz, Oliver Poudel, Saroj Poudel, Saroj Poudel, Suresh Poulogiannis, George Poulogiannis, George Poulsma, John Powellt, Nicole Powell, Matthew Powell, Matthew Powell, Matthew Powell, Matthew Powell, Thomas	ThP 654

	TP 555
Pozzan, Stefania	MP 279
Prabhakar, Pradeep	
Prabhakaran, Aneesh	
Prabhakaran, Aneesh	
Prabhakaran, Aneesh	ThP 407
Prabhakaran, venkateshkumar.	WOG pm 03:10
Prabhu, Gurpur Rakesh	MP 345
Prakash, Amol	MD 524
Prakash, Amol	
Prasad, Mridula	
Prasad, Mridula	ThP 290
Prasad, Satendra	ThP 389
Prasad, Satendra	ThP 390
Prasad, Satendra	
Prasad, Satendra	
Prasad, Satendra	
Pratt, Brian	WP 321
Predel, Reinhard	WP 298
Preiswerk, Thomas	MP 109
Prell, James	
Prell, James	
Prell, James	ThP 624
Prenni, Jessica	
Prenni, Jessica	
Prenni, Jessica	
Prenni, Jessica	
Prenni, Jessica	WP 471
Prenni, Jessica	
Prenni, Jessica	
Prenni, Jessica	
Prentice, Boone	MP 574
Prentice, Boone	WP 275
Prentice, Boone	MP 303
Prentice, Boone	
Prentice, Ken	
Prest, Harry	WP 129
Prest, Harry	
Prevot, Andre	TD 420
	TOD pm 03:50
Price, Candace	TP 719
Price, Candace	TP 719
Price, Candace	TP 719 MP 679
Price, Candace	TP 719 MP 679 ThP 102
Price, Candace Price, Candace Price, Candace Price, Jason	TP 719 MP 679 ThP 102 WP 172
Price, Candace Price, Candace Price, Candace Price, Jason Price, John	
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John	TP 719MP 679ThP 102WP 172MP 284MP 617
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John	TP 719MP 679ThP 102WP 172MP 284MP 617
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan	TP 719MP 679ThP 102WP 172MP 284MP 617
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin	TP 719MP 679ThP 102MP 172MP 284MP 617MP 276
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C.	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C. Prieto Conaway, Maria C.	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 270 ThP 133 WP 005
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C. Prince, Barry	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 210 ThP 130 WP 005
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prieto Conaway, Maria C Prince, Barry Prince, Heather	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prieto Conaway, Maria C Prince, Barry Prince, Heather	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Barry Prince, Heather Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 168 ThP 138 MP 352
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Barry Prince, Heather Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 200 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 WP 352 WP 311 WP 276 MOE am 08:50 MOE am 08:50 TP 011
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Procter, Stuart Proctor, Rachel	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 MP 154 TP 220
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Proctor, Stuart Proctor, Rachel Prokai, Katalin	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 154 TP 220 TP 220 TP 154 TP 154 TP 154 TP 154 TP 154
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Proctor, Stuart Proctor, Rachel Prokai, Katalin	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 154 TP 220 TP 220 TP 154 TP 154 TP 154 TP 154 TP 154
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 1520 ThP 688 ThP 688
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud	TP 719
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 MP 154 TP 220 ThP 688 WP 300 ThOF am 09:50
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prop, Arnoud Prosser, Simon	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 MP 154 TP 220 ThP 688 WP 300 ThP 688 WP 300 ThOF am 09:50
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, S	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 230 ThP 138 MP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WP 174 MP 154 TP 220 ThP 688 ThP 688 WP 300 ThP 688 WP 300 ThOF am 09:50 MP 230 MP 342
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, S	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 230 ThP 138 MP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WP 174 MP 154 TP 220 ThP 688 ThP 688 WP 300 ThP 688 WP 300 ThOF am 09:50 MP 230 MP 342
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prosser, Simon Prosser, Simon Prosser, Simon Prosser, Spencer	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 154 MP 154 MP 250 ThP 688 WP 300 ThOF am 09:50 MP 2342 MP 374
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, S	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 1540 ThP 688 ThP 688 WP 300 ThOF am 09:50 MP 230 MP 234 MP 374 WP 346
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prop, Arnoud Prosser, Simon Prosser, Simon Prosser, Simon Prost, Spencer Prost, Spencer	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 200 ThP 154 TP 210 MP 154 TP 210 MP 154 TP 280 ThP 688 WP 300 ThOF am 09:50 MP 230 MP 342 MP 346 MP 346
Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Prongle, Steven Prongle, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prop, Arnoud Prosser, Simon Prosser, Simon Prosst, Spencer Prost, Spencer Prost, Spencer	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 220 ThP 133 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 MP 154 TP 220 ThP 688 WP 300 ThP 688 WP 300 ThOF am 09:50 MP 342 MP 342 MP 346 ThP 400 WOD pm 03:30
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Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Protal, Steven Procter, Stuart Proctor, Rachel Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prop, Arnoud Prop, Arnoud Prosser, Simon Prosser, Simon Prost, Spencer	TP 719
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Price, Candace Price, Candace Price, Candace Price, Jason Price, John Price, John Price, John Prideaux, Brendan Prien, Justin Prieto Conaway, Maria C Prince, Barry Prince, Heather Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Pringle, Steven Prongle, Steven Prongle, Steven Prost, Steven Proctor, Rachel Prokai, Katalin Prokai, Katalin Prokai, Laszlo Prop, Arnoud Prosser, Simon Prosser, Simon Prosser, Simon Prosst, Spencer Prost, k, Ivan Protsyuk, Ivan	TP 719 MP 679 ThP 102 WP 172 MP 284 MP 617 MP 276 ThP 138 WP 005 TP 164 ThP 138 MP 352 WP 311 WP 276 MOE am 08:50 TP 410 WOB pm 04:10 TP 011 MP 154 TP 220 ThP 688 WP 300 TP 480 WP 310 MP 374 WP 346 ThP 400 WP 374 WP 346 ThP 034 WP 346 ThP 034 WP 324 MP 460 WP 324 MP 460 WP 324 MP 467 MP 324 MP 467 MP 324 MP 346 ThP 034 WP 324 MP 367 MP 374 WP 374 WP 374 WP 374 MP

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Pyun, Jae-Chul	ThP 089 WP 039 am 09:50 ThP 234 TP 623 MP 575 ThP 566 MP 695 MP 695 MP 638 ThP 445
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Pyun, Jae-Chul	ThP 089WP 039 am 09:50ThP 234TP 623MP 575ThP 566MP 695MP 690MP 638ThP 445WP 460TP 629MP 597WP 695MP 537TP 098 pm 02:50MP 208
Pyun, Jae-Chul	ThP 089WP 039 am 09:50ThP 234TP 623MP 575ThP 566MP 695MP 690MP 690MP 645WP 460TP 629MP 597WP 695MP 597TP 098 pm 02:50MP 208TP 187
Pyun, Jae-Chul	ThP 089WP 039 am 09:50ThP 234TP 623MP 575ThP 566MP 695MP 695MP 638ThP 445WP 460TP 629MP 597MP 597MP 597MP 597MP 597MP 597MP 597MP 597MP 597
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Pyun, Jae-Chul	ThP 089WP 039 am 09:50ThP 234TP 623MP 575ThP 566MP 695MP 695MP 638ThP 445WP 460TP 629MP 597WP 695MP 537TP 098 pm 02:50MP 208TP 187TP 188TP 188TP 189TP 189TP 189
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Pyun, Jae-Chul	ThP 089WP 039 am 09:50ThP 234TP 623MP 575ThP 566MP 695MP 690MP 638ThP 445WP 460TP 629MP 597MP 695MP 587TP 188TP 188TP 189TP 189TP 189TP 189TP 189TP 189TP 223MP 687MP 687MP 397MP 644WP 6444
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Rabilloud, Thierry	MP 60 MP 47: TP 03: MP 16: ThOD pm 04:1: MP 16: ThOH pm 03:3: TP 32: ThP 31: ThP 29: TP 43:
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Rabilloud, Thierry	MP 60MP 47TP 03MP 16MP 16MP 16TP 31Th 29Th 29TP 43MP 12MP 12MP 36Th 23Th 63
Rabilloud, Thierry	MP 60MP 47TP 03MP 16MP 16MP 16MP 33TP 31ThP 31MP 12MP 12MP 32MP 32MP 32MP 36MP 36MP 56MP 56MP 63
Rabilloud, Thierry	MP 60MP 47:TP 03:MP 16:MP 16:MP 16:TP 32:TP 32:TP 39:TP 43:MP 12:MP 12:MP 32:MP 56:MP 56:MP 56:MP 63:MP 56:MP 50:MP 50:MP 50:MP 12:MP 12:MP 12:MP 12:
Rabilloud, Thierry	MP 600MP 47:TP 03:MP 16:MP 16:TP 32:TP 32:TP 31:TP 43:MP 12:MP 56:MP 63:MP 64:MP 12:MP 56:MP 56:TP 43:
Rabilloud, Thierry	MP 600MP 47:
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Rabilloud, Thierry Rabinowitz, Joshua Rabuka, David Rabus, Jordan Racaud, Amandine Racaud, Amandine Race, Alan Race, Alan Rackers, Kevin Radchenko, Tatiana Radchenko, Tatiana Radford, Sheena	MP 600 MP 47: TP 03: TP 26: FhOD pm 04:1: MP 16: FhOH pm 03:3: TP 31: ThP 31: ThP 29: MP 12: MP 32: MP 56: ThP 63: WOF pm 04:1: MP 12: TP 26: TP 43: MP 14: MP 12: TP 26: TP 46: WP 37: TP 14: WP 37: TP 35: MP 15: WP 47: TP 50: WP 56: MP 56: MP 15: MP 15: MP 16: MP 16: MP 17: MP 18:
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Raglan, Olivia	. WOD am 09:30
Ragno, Rino	WP 212
Rago, Brian	TP 462
Ragsdale, Stephen	ThP 217
Rahlouni, Fatima	MP 418
Rahlouni, Fatima	ThP 688
Rahman, A. F. M. Motiur	\\\D \\\O
Railliali, A. F. W. WOUUI	VVF 090
Rahman, Mahbubur	IP 606
Rahman, Mahbubur	. ThOA am 09:30
Rahman, Mahbubur	
Rahmatallah, Yasir	ThP 026
Räikkönen, Heikki	TP 349
Raimondi, Giorgio	ThD 717
Rainional, Giorgio	
Rainer, Gregor	VVP 6/8
Rainville, Paul	MP 449
Raja, Huzefa	WP 541
Rajagopal, Prasanna	TP 366
Rajagopal, Vaishnavi	TP 247
Rajanayake, Krishani	TD 128
Rajapakshe, Kimal	\\\D 490
Rajapaksile, Killal	VVF 400
Rajasingam, Sangeeta	IP /0/
Rajendiran, Thekkelnaycke	MP 428
Rajendiran, Thekkelnaycke	WP 329
Rajendiran, Thekkelnaycke	MOF pm 03:50
Rajput, Sandeep	TOΔ am 00:30
Rajski, Łukasz	MD 044
Rajoki, Łukasz	IVIP 211
Rakov, Sergey	MP 208
Rakownikow J-C, Rosa	WP 566
Ralston, Corie	ThP 645
Ramachandran, Sumankalai	MP 456
Ramachandran, Vasavi	
Dames Vanu	MD 202
Raman, Venu	IVIP 202
Ramanathan, Dil	WP 165
Ramanathan, Dil	MP 554
Ramanathan, Sudharshanan	TP 672
Ramezani, Marzieh	ThP 506
Ramirez, Cesar	MOF am 08:50
Ramirez, Juan	WOT all 00.00
Railliez, Juan	TID 40
Ramirez, Juan	InP 486
Ramirez, Miguel	TP 603
Ramirez, Servio	WP 290
Ramirez, Servio	WP 290
Ramirez, Servio Ramirez Velasco, Jorge	WP 290 .ThOH pm 03:50
Ramirez, Servio Ramirez Velasco, Jorge Ramírez-Pradilla, Juan	WP 290 .ThOH pm 03:50 MP 167
Ramirez, Servio	
Ramirez, Servio	WP 290 .ThOH pm 03:50 MP 167 WP 394 MP 433
Ramirez, Servio Ramirez Velasco, Jorge Ramírez-Pradilla, Juan Rampler, Evelyn Rampler, Evelyn Rampler, Evelyn	
Ramirez, Servio Ramirez Velasco, Jorge Ramírez-Pradilla, Juan Rampler, Evelyn Rampler, Evelyn Rampler, Evelyn Ramsay, Jason	WP 290 .ThOH pm 03:50 MP 167 WP 394 MP 433 . WOD am 08:50 WP 563
Ramirez, Servio Ramirez Velasco, Jorge Ramírez-Pradilla, Juan Rampler, Evelyn Rampler, Evelyn Rampler, Evelyn Ramsay, Jason	WP 290 .ThOH pm 03:50 MP 167 WP 394 MP 433 . WOD am 08:50 WP 563
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Rao, Tai	
Rao, Wei	
Rappez, Luca	
Rappez, Luca	WOF nm 04:10
Rappez, Luca	ThOE am 00:10
Rappsilber, Juri	
Raptakis, Emmanuel	TP 382
Raptakis, Emmanuel	ThOC nm 04:10
Rardin, Brent	
Rasam, Pratap	
Rasam, Pratap	MP 189
Rasam, Pratap	
Rasam, Pratap	
Rasam, Pratap	
Rasam, Pratap	TP 170
Rasam, Pratap	
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Rasam, Pratap	
Rasam, Pratap	TP 212
Rasam, Pratap	ThP 710
Rashid, Faraz	
Rashid, Faraz	
Rashid, Faraz	
Rashid, Faraz	WOB am 10·10
Raska, Milan	WD 249
Raskind, Alexander	WP 455
Rathahao-Paris, Estelle	TP 512
Rathahao-Paris, Estelle	TP 516
Detherm Manne	MD 000
Rathbun, Wayne	
Rathnayake, R.A.C	TP 398
Raton, Juan	MP 280
Ratsch, Gunnar	
Rau. Nathan	
Raught, Brian	MP 700
Raupers, Björn	TP 393
Raus, Peter	
Raus, Peter	
Raus, Peter	ThP 662
Ravault, Vincent	WP 087
Ravivanshi, Kuldeep	
Rawlins, Catherine	I nOF pm 04:10
Rawson, Keith	
	ThP 669
Ray, Gene	ThP 669
Ray, GeneRay, John	ThP 669 TP 726 MP 325
Ray, Gene Ray, John Ray, Julie	ThP 669 TP 726 MP 325 TP 721
Ray, GeneRay, John	ThP 669 TP 726 MP 325 TP 721
Ray, Gene	ThP 669 TP 726 MP 325 TP 721 MP 393
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036VP 238
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036VP 238TP 645
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366
Ray, Gene	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366TP 685WP 360TP 685
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366ThP 680ThP 680WOC am 10:10MP 487
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Will Raybould, Helen Raymond, Frédéric	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366Th 680Th 680WOC am 10:10WP 487WP 176
Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366Th 680Th 680WOC am 10:10WP 487WP 176
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Ray, Gene	ThP 669TP 726MP 325TP 721MP 393TP 036WP 238TP 645WP 366Th 680MP 487WP 176MP 442TP 430
Ray, Gene	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 649
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 430 TP 649 MP 325
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 430 TP 649 MP 325 WP 226
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 430 TP 649 MP 325 WP 226
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Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan Rebec, Monica Rector, John Reddy, Akhila	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 430 TP 649 MP 325 WP 226 TOF pm 02:30 MP 113 MP 097
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan Rebec, Monica Rector, John Reddy, Akhila Reddy, Ashok	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 649 MP 325 WP 226 TOF pm 02:30 MP 113 MP 097 TP 639
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Will Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan Rebec, Monica Rector, John Reddy, Akhila Reddy, Ashok	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 649 MP 325 WP 226 TOF pm 02:30 MP 113 MP 097 TP 639
Ray, Gene Ray, John Ray, Julie Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Will Raybould, Helen Raybould, Helen Raymackers, Alice Raymond, Frédéric Raymond, Michelle Rayna, Sean Razavi, Morty Reah, lan Reah, lan Rebec, Monica Rector, John Reddy, Ashok Reddy, Ashok Reddy, Hemachandra	ThP 669 TP 726 MP 325 TP 721 MP 393 TP 036 WP 238 TP 645 WP 366 ThP 680 WOC am 10:10 MP 487 WP 176 MP 042 TP 430 TP 649 MP 325 WP 226 TOF pm 02:30 MP 113 MP 097 TP 639 ThP 706
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Reece, Sky	ThP 271
Reed, Aaron	
Reed, Corey	WP 250
Reed, Robert	
Reed-Bogan, Angelia	ThOR am 00:50
Reeu-Bogan, Angelia	THOD all 09.50
Rees, Jon	
Reese, Jeff	
Refai, Mohammed	ThP 687
Regg, Brian	WP 172
Regnier, Fred	. ThOG pm 03:30
Rehder, Doug	ThOR nm 03:50
Rehrauer, Owen	TD 426
Reibarkh, Mikhail	
Deiah Adrian	
Reich, Adrian	VVP 260
Reid, Gavin	
Reid, Gavin	
Reid, Gavin	WOD pm 03:10
Reid, Michelle	WP 397
Reilly, James	
Reilly, James	
Reilly, James	
Reilly, Peter	
Reilly, Peter	VVP 359
Reilly, Peter	ThP 384
Reilly, Peter	
Reimer, Ulf	MP 523
Reimer, Ulf	TOA am 08:30
Reiner, Eric	ThP 152
Reiner, Jessica	
Reinhardt-Szyba, Maria	ThD 357
Reinhardt-Szyba, Maria	ThOC nm 04:10
Reinhardt-Szyba, Maria	TOE am 09:50
Reinhold, Vernon	
Reinhold, Vernon	MP 084
Reinhoud, Nico	MP 615
Reinke, Stacey	TP 519
Reinkensmeier, Magdalene	
Reinkensmeier, Magdalene	
Reisdorph, Nichole	
Reisdorph, Richard	
Reiss, René	
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Reiter, Lukas	WP 080
Reiter, Lukas	WP 080 WP 313
Reiter, Lukas Reiter, Lukas Reiter, Lukas	WP 080 WP 313 MP 330
Reiter, Lukas Reiter, Lukas Reiter, Lukas	WP 080 WP 313 MP 330
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Renu, Durairaj	
Renyer, Kathryn	ThP 159
Resemann, Anja	
Ressom, Habtom	TP 317
Ressom, Habtom	WP 479
P. H O II	
Retterer, ScottWO	
Reubsaet, Léon	MP 343
Reubsaet, Léon	
Reusch, Dietmar	MP 082
Reusch, Dietmar	MP 096
Reuschel, Scott	TP 683
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Reuter, Wilhad	MP 206
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Reuther, John	TP 102
Revel, Johana	INP 347
Reyes, Michelle	WP 484
Reyes Garces, Nathaly	
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Reyes Garces, Nathaly	MP 013
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neyes-Garces, realitally	IVIT 33U
Reyes-Garcés, Nathaly	MP 470
Reynolds, James	\A/D 491
Reynolds, Melissa	IP 131
Rey-Stolle, Ma Fernanda	MD 447
Reyzer, Michelle	MP 302
Reyzer, Michelle	MP 308
De test e O elle e	TD 505
Rezinciuc, Svetlana	
Rhee, Kyu	MP 512
Rhodes, Justin	
Rhourri-Frih, Boutayna	MP 277
Rhourri-Frih, Boutayna	
Rhys, Salter	WP 103
Riandé, Sandrine	WP 651
Ricci, Andreina	WP 212
Rice, Robert	TD 000
	112 236
Pier William TO	IP 236
Rice, WilliamTO	E pm 03:50
Rice, WilliamTO	E pm 03:50
Rice, WilliamTO	E pm 03:50 D am 10:10
Rice, WilliamTO Richard, AnnTO Richard, Vincent	E pm 03:50 D am 10:10 MP 538
Rice, WilliamTO Richard, AnnTO Richard, Vincent	E pm 03:50 D am 10:10 MP 538
Rice, William TO Richard, Ann TO Richard, Vincent Richards, Michele	E pm 03:50 D am 10:10 MP 538 ThP 644
Rice, William TO Richard, Ann TO Richard, Vincent Wichards, Michele Richards, Todd Richards	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647 WP 647
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647 WP 070
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647 WP 070
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 ThP 166 WP 647 WP 070 WP 085
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 647 WP 070 WP 085 ThP 656
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 647 WP 070 WP 085 ThP 656
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 647 WP 070 WP 085 ThP 656 TP 383
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 647 WP 070 WP 085 TP 383
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 647 WP 070 WP 085 TP 383
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 070 WP 085 TP 383 TP 383 TP 385
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 070 WP 085 TP 385 TP 385 TP 385 WP 384 A am 09:50
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 WP 647 WP 070 WP 085 TP 385 TP 385 TP 385 WP 384 A am 09:50
Rice, William	E pm 03:50 D am 10:10 MP 538 ThP 644 YP 647 WP 647 WP 070 WP 085 ThP 656 TP 385 TP 385 WP 384 A am 09:50 ThP 036
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Michardson, Keith Michardson, Keith Michardson, Luke Richardson, Susan MO	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 647WP 085ThP 383TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30
Rice, William	E pm 03:50 D am 10:10
Rice, William	E pm 03:50 D am 10:10
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 647WP 070WP 085ThP 383TP 383TP 383TP 384 A am 09:50 D pm 02:30 D pm 02:30TP 633MP 015
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 070WP 085TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 633TP 339
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 070WP 085TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 633TP 339
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 070WP 085ThP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633MP 015MP 015
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickards, Tony TO	E pm 03:50 D am 10:10
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Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 070WP 085ThP 656TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 339TP 293 IF pm 02:30ThP 126MP 013 IF am 09:30ThP 420
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 070WP 085ThP 656TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 339TP 293 IF pm 02:30ThP 126MP 013 IF am 09:30ThP 420
Rice, William TO Richard, Ann TO Richard, Vincent Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark Ridgeway, Mark	E pm 03:50 D am 10:10 D am 10:10 D am 10:10 F 3644 F 40 F 40 F 40 F 40 F 40 F 40 F 40 F
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Rice, William TO Richard, Ann TO Richard, Vincent Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark Ridgeway, Mark	E pm 03:50 D am 10:10
Rice, William	E pm 03:50 D am 10:10
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Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 647WP 070WP 085ThP 656TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 293 IF pm 02:30TP 126MP 015TP 389TP 293 IF pm 02:30ThP 126MP 015TP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 013ThP 126MP 013ThP 126MP 013ThP 126MP 013ThP 126ThP 126ThP 126ThP 037ThP 433ThP 037ThP 037ThP 057WP 360
Rice, William	E pm 03:50 D am 10:10MP 538ThP 644WP 647WP 647WP 070WP 085ThP 656TP 383TP 385WP 384 A am 09:50ThP 036 D pm 02:30TP 633TP 293 IF pm 02:30TP 126MP 015TP 389TP 293 IF pm 02:30ThP 126MP 015TP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 015ThP 126MP 013ThP 126MP 013ThP 126MP 013ThP 126MP 013ThP 126ThP 126ThP 126ThP 037ThP 433ThP 037ThP 037ThP 057WP 360
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickert, Daniel Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Riede, Michael Rigger, Joshua Riffle, Michael Riggen, Dylan TO	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark ThO Riedl, Ken Rieger, Joshua Rigno, Francesca Riggs, Dylan TO Rijkers, Erikjan. TO	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark ThO Riedl, Ken Rieger, Joshua Rigno, Francesca Riggs, Dylan TO Rijkers, Erikjan. TO	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Eleanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark MC Ridgeway, Mark MC Rieger, Joshua Riffle, Michael Rigano, Francesca Riggs, Dylan TO Riley, Catherine Todd	E pm 03:50 D am 10:10
Rice, William	E pm 03:50 D am 10:10
Rice, William	E pm 03:50 D am 10:10
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Rice, William	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Beanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Rigger, Joshua Riffle, Michael Rigano, Francesca Riggs, Dylan TO Rijkers, Erikjan TO Riley, Catherine Riley, Nicholas WO Riml, Christian Rincon, Juan P	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Beanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark MC Ridgeway, Mark ThO Riedl, Ken Rieger, Joshua Riffle, Michael Rigano, Francesca Riggs, Dylan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Kicholas Riley, Nicholas Riley, Nicholas Riley, Nicholas Rileon, Juan P Rio, Roxana	E pm 03:50 D am 10:10
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Timothy Richardson, Timothy Richardson, Timothy Riches, Eleanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark MC Ridgeway, Mark MC Ridgeway, Mark ThO Riedl, Ken Rieger, Joshua Riffle, Michael Rigano, Francesca Riggs, Dylan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkey, Nicholas WO Riml, Christian Rincon, Juan P Rio, Roxana Rist, Wolfgang	E pm 03:50 D am 10:10 D am 10:50 D pm 02:30
Rice, William TO Richard, Ann TO Richard, Vincent TO Richards, Michele Richards, Michele Richards, Todd Richardson, Daisy Richardson, Doug Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Keith Richardson, Susan MO Richardson, Susan MO Richardson, Susan MO Richardson, Timothy Riches, Eleanor Riches, Beanor Riches, Mary Jean Rickards, Tony TO Ricke, William Rickert, Daniel Ridgeway, Mark MC Ridgeway, Mark MC Ridgeway, Mark ThO Riedl, Ken Rieger, Joshua Riffle, Michael Rigano, Francesca Riggs, Dylan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Erikjan TO Rijkers, Kicholas Riley, Nicholas Riley, Nicholas Riley, Nicholas Rileon, Juan P Rio, Roxana	E pm 03:50 D am 10:10 D am 10:50 D pm 02:30

Rister, Alana	ThP 422
Rithner, Chris	TP 293
Rivera, Angel	ThP 045
Rivera, Brian ThOG	
Rivera, Cindy	
Rivera, Corban	
Rivera-Santiago, Roland	ThP 053
Rizzo, Adriana	MP 650
Rizzo, Thomas	
Rizzo, ThomasThOD	
Rizzo, ThomasTOH	am 10:10
Roark, Krystal WOG	am 08:50
Robbins, Paul	
Roberg-Larsen, Hanne	
Debests Dising	IIII 720
Roberts, Blaine	
Roberts, BlaineThOB	pm 03:10
Roberts, Christopher	ThP 211
Roberts, Georgia	MP 710
Roberts, michael	
Roberts, Michael	
Roberts, Paul	MP 214
Roberts, Paul	MP 391
Roberts, Paul	TP 443
Roberts, Paul	
Roberts, Paul	
Roberts, Paul	
Roberts, Rhonda	TP 563
Roberts, Simon	ThP 167
Robey, MatthewMOC	am 10·10
Robin, Tiphaine	
Robin, Tiphaine	
Robinson, Anne	
Robinson, Bruce	ThP 336
Robinson, Caleb	WP 059
Robinson, Kenneth	
Robinson, Mary	
Robinson, Matthew	
Robinson, Max	
Robinson, Michelle	
Robinson, PhilipTOE	
Robinson, Renã	MP 651
Robinson, Renã	TP 590
Robinson, Renã	ThP 658
Robinson, Renã	ThP 676
Robinson, Richard	
Robinson, RichardWOD	
Robinson, Veronica	MD 672
Robinson, Veronica	
Robison, Richard	
Robotham, Scott	IP 0/1
Robu, Adrian-Cristian	
Robuck, Mike	
Rochon, Jonathan	
Rochon, Jonathan MOB	pm 02:50
Rock, Brooke	TD 400
ROCK. BIOOKE	12 109
Rock, Brooke	ThP 589
Rock, Brooke	ThP 589 WP 091
Rock, Brooke	ThP 589 WP 091 WP 092
Rock, Brooke	ThP 589 WP 091 WP 092 TP 109
Rock, Brooke	ThP 589 WP 091 WP 092 TP 109
Rock, Brooke	ThP 589 WP 091 WP 092 TP 109 WP 638
Rock, Brooke	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661
Rock, Brooke	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392 ThP 443 WP 467
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392 ThP 443 WP 467
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocket, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392 ThP 443 WP 467 TP 544
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392 ThP 443 WP 467 TP 544 WP 200
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T	ThP 589 WP 091 WP 092 TP 109 WP 638 WP 661 ThP 589 MP 392 ThP 443 WP 467 TP 544 WP 200 TP 245
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Ryan	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Rodgers, Ryan	ThP 589WP 091WP 092ThP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168MP 169
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockerl, Hannah Rodenbarger, Lauren Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168MP 168 am 08:30
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168 am 08:30ThP 173
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, M Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan P Rodgers, Ryan P	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168MP 169 am 08:30ThP 173ThP 173
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan P Rodland, Karin	ThP 589WP 091WP 092TP 109WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168MP 169 am 08:30ThP 173ThP 173
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan Rodland, Karin Rodland	ThP 589WP 091WP 092WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245MP 168MP 169 am 08:30ThP 173MP 175MP 175
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodland, Karin Rodland, Karin Rodland, Karin	ThP 589WP 091WP 092WP 638WP 661ThP 589MP 661ThP 589MP 443WP 467TP 544WP 200TP 245MP 168MP 168MP 169 am 08:30ThP 173MP 175MP 537MP 537
Rock, Brooke Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rock, Dan Rocker, Jana Rocker, Jana Rockwell, Hannah Rodenbarger, Lauren Rodgers, Mary T Rodgers, Mary T Rodgers, Mary T Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan Rodgers, Ryan P Rodgers, Ryan Rodland, Karin Rodland	ThP 589WP 091WP 092WP 638WP 661ThP 589MP 392ThP 443WP 467TP 544WP 200TP 245TP 250MP 168 am 08:30ThP 173MP 175MP 175MP 537TP 098 pm 02:50ThP 674

Rodrigues Peres, Raquel	ThOF	pm 02:50
Rodriguez, Henry		
Rodriguez, Jimmy		TP 614
Rodriguez, Lidia Rodriguez, Maria		
Rodriguez, Maria Rodriguez, Raymond		WP 64!
Rodriguez-Granillo, Agustina		
Roemer, Stephen		MP 398
Roemer, Stephen		TP 46
Roemer, Terry		MP 122
Roempp, AndreasRoempp, Andreas	E	INP 285
Roepstorff, Peter		
Roest, Hannes		
Roest, Hannes	WOA	pm 02:50
Roest, Hannes	WOA	am 09:50
Rogalski, Jason Rogers, John		
Rogers, John		
Rogers, John C		
Rogers, John C		TP 066
Rogers, John C		
Rogers, John C		TP 65
Rogers, John CRogers, Matthew		WP /14
Rognaux, Helene	MOH	nm 02:30
Rogniaux, Helene		WP 376
Rogowska-Wrzesinska, Adelina		WP 154
Rogowska-Wrzesinska, Adelina		ThP 436
Rohanifar, Ahmad		WP 115
Rohanifar, AhmadRohman, Mattias		
Rohner, Urs		
Rohrer, Jeffrey		
Rohrs, Henry		WP 266
Rojas Santiago, Eleazar		
Rolando, Christian		
Rolfs, Zach Rolland, Delphine	INOA	VVD 150
Rollet, Marion		WP 624
Rollin-Jego, Gaelle		WP 054
Roman, Gregory		
Roman, Gregory		
Romanczyk, Mark Romanczyk, Mark		MP 174
Romanczyk, Mark Romanczyk, Mark	ThOH	VVP 198
Romano, Joe		
Romano, Joe		WP 079
Romanov, Vladimir		MP 348
Romanova, Elena		ThP 548
Romanova, ElenaRomanova, Elena		IP 6/3
Romanova, Evena		
Romão, Wanderson	MOD	am 10:10
Romer, Carrie		TP 506
Romer, Carrie		WP 716
Romer, Carrie Romer, Carrie		ThP 428
Romijn, Fred		IP 440 MP 106
Romijn, Fred		ThP 665
Rompais, Magali		TP 142
Rooney, Michael		MP 403
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Ropartz, David		
Ropartz, David Roper, Clair		
Rorrer, Leonard		
Rorrer, Leonard		
Rosa, Jose		WP 690
Rosati, Jennifer		TP 237
Rosati, Jennifer		TP 238
Rose, ChristopherRose, Christopher		IVIP 522 ThP 323
Rose, Christopher		
Rose, Christopher		TP 64
Rose, Christopher	.TOC	pm 03:30
Rose, Kristie		WP 716
Rose, Kristie		12 446
Rosen, Elias		The you

Rosenberg, Jake		WP 316
Rosenberg, Jake		WP 213
Rosenberg, Jake		ThP 635
Rosenberger, Carrie		
Rosenberger, George	.WOA	am 10:10
Rosenblatt, Michael		MP 646
Rosenblatt, Michael		
Rosenblatt, Michael		
Rosenblatt, MichaeL		
Rosenblatt, Michael		TP 446
Rosini, Francesca		MP 298
Rosini, Francesca		
Rosini, Francesca		WP 437
Rosini, Francesca		
Rosnack, Kenneth		MP 198
Rosnack, Kenneth		
Rosnack, Kenneth		ThP 427
Ross, Dylan		
Ross, Dylan		WP 390
Ross, Euan		
Ross, Robert		MP 358
Ross, Robert		
Ross, Robert		
Rossell, David		ThP 327
Rossing, Peter		
Rossing, Peter		
Rosting, Cecilie		MP 050
Rosu, Frederic		ThP 406
Rosu, Frédéric		
Rosulek, Michal		MP 060
Rosulek, Michal		ThP 085
Rosulek, Michal		
Rosulek, Michal		
Roszkowska, Anna		
Rotello, Vincent		
Rotello, Vincent		IP 497
Roth, Annette		.WP 184
Roth, Annette		
Roth, Kenneth		
Roth, Stephan		.WP 482
Röth, Daniel		
Rothberg, Amy		IVIP 428
Röthlisberger, Ursula		
Rothschild, Kenneth		
Rouet, Matthieu		
Rouse, Jason		IVIP 020
Rouse, Jason		
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Rouse, Jason Rouse, Jason		. ThP 579
Roush, James		
Rousseaux, Maxime		
Roussis, Stilianos G		. IIIF 000
Rout, Michael	ThOD 4	vvr 552
Rout, Micheal		
Routh, Andrew		
Roux, Aurélie	IOL 6	00.50 IIIk
Rowland, Elden		
Rowland, Kevin		TD 690
Rowland, Steven		
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Roy, Sushmita Milmi Roy-Lachapelle, Audrey	\\\\CP \	IVIT 395
Roymoulik, Ipsita		
Rozas Sanchez, Enrique		
Rubach, Matthew		
Rubakhin, Stanislav		
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Ruhakhin Stanislav		

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Ruchala, Piotr	ThP 569
Rudashevskaya, Elena	MP 051
Rudd, Pauline	TD 427
Ruddock, William	
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Rudiley, Joei	VOA piii 02.30
Rudolph, Heather	IP 103
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Ruhaak, L. Renee	MD 400
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Ruiz, Sarah	TP 192
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Ruotolo, Brandon	MP 376
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Ruotolo, Brandon	
Ruotolo, Brandon	WP 387
Ruotolo, Brandon W	/OC pm 02:50
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Ruperti, FabianTh	OE am 09:50
Ruprecht, Benjamin	MP 694
Decree and Decree	1011 00.50
Ruprecht, BradleyN	10H am 09:50
Rusche, Hendrik	MP 598
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Ruse, Cristian Ruse, Cristian I Rusek, Thomas	ThP 585 TP 560 ThP 165
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Ruse, Cristian Ruse, Cristian I Rusek, Thomas Rush, Matthew Rush, Matthew Rush, Michael Rushe, Michael Rushe, Mia	ThP 585TP 560ThP 165TP 133WP 452MP 144WP 526
Ruse, Cristian Ruse, Cristian I Rusek, Thomas. Rush, Matthew Rush, Mithew Rush, Michael Rush, Michael Rushe, Mia Rushe, Mia Rusin, Scott	ThP 585 TP 560 ThP 165 TP 133 WP 452 MP 144 WP 526 ThP 115
Ruse, Cristian. Ruse, Cristian I. Rusek, Thomas. Rush, Matthew. Rush, Matthew. Rush, Michael Rush, Michael Rushe, Mia. Rusin, Scott Rusin, Scott	ThP 585 TP 560 ThP 165 TP 133 WP 452 WP 526 ThP 115 ThP 557
Ruse, Cristian Ruse, Cristian I Rusek, Thomas. Rush, Matthew Rush, Mithew Rush, Michael Rush, Michael Rushe, Mia Rushe, Mia Rusin, Scott	ThP 585 TP 560 ThP 165 TP 133 WP 452 WP 526 ThP 115 ThP 557
Ruse, Cristian Ruse, Cristian I Rusek, Thomas Rush, Matthew Rush, Matthew Rush, Michael Rush, Michael Rushe, Mia Rusin, Scott Rusin, Scott Rusin, Scott Ruskoaho, Heikki	ThP 585 TP 560 TP 165 TP 133 WP 452 MP 144 WP 526 ThP 115 ThP 557 TP 582 WP 715
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Ryzhov, Victor	MP 240
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Saba, Julian	
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Sabat, Greg	MD E30
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Sabat, Greg	ThP 646
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Sacks, Gavin	
Sacks, Gavin	
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Sahin, Cagla	MOE pm 02:30
Sahin, Cagla Sahni, Narinder	MOE pm 02:30 MP 423
Sahin, Cagla Sahni, Narinder	MOE pm 02:30 MP 423
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Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki	.MOE pm 02:30
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Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kenji Saito, Mak	. MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenjii Saito, Mak Saji, Hisashi	. MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenjii Saito, Mak Saji, Hisashi	. MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero	. MOE pm 02:30 MP 423 MP 533 WP 586 MP 474 MP 713 MP 721 MP 476 TP 028 MP 701 TP 099 WP 183
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji	. MOE pm 02:30 MP 423 MP 533 WP 586 MP 713 MP 721 MP 476 TP 028 MP 701 TP 099 WP 183 ThP 356
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi	. MOE pm 02:30 MP 423 MP 533 WP 586 MP 713 MP 721 MP 476 TP 028 MP 701 TP 099 WP 183 ThP 356 TP 221
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji	. MOE pm 02:30 MP 423 MP 533 WP 586 MP 713 MP 721 MP 476 TP 028 MP 701 TP 099 WP 183 ThP 356 TP 221
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi	. MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 029 .WP 183 .Th 356 .TP 221 .TP 021 .TP 024
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakaura, Motoshi Sakamoto, Izumi Sakamoto, Jason	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 024 .TP 064 .TP 604 .ThP 119
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 024 .TP 064 .TP 604 .ThP 119
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 619 .TP 503
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Jakamoto, Jakamoto, Jason Sakamoto, Jason Sakamoto, Jakamoto, Jakamoto, Jakamoto, Jason Sakamoto, Jakamoto, J	.MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki	.MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Karyii Saito, Karyii Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakaroy, Alexandre Sakaroy, Alexandre	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 029 .WP 183 .ThP 356 .TP 221 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 096
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Kaji Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakali, Monas	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakarov, Alexandre Sakellakis, Minas. Sakowicz, Roman	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Kaji Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakali, Monas	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Kenji Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakalisi, Minas Sakowicz, Roman	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakellakis, Minas Sakowicz, Roman Sakowicz, Roman Salamtipour, Ashkan	.MOE pm 02:30
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kazuki Saito, Kanji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakawoicz, Roman Sakowicz, Roman Salamtipour, Ashkan Salandria, Kerry	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 029 .WP 183 .ThP 356 .TP 221 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakellakis, Minas Sakowicz, Roman Sakowicz, Roman Salamtipour, Ashkan	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 029 .WP 183 .ThP 356 .TP 221 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakawro, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Roman Sakowicz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 7713 .MP 7713 .MP 776 .TP 028 .MP 701 .TP 099 .WP 183 .Th 356 .TP 221 .TP 021 .Th 604 .Th 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .TP 675 .TOC pm 03:10 .WP 551
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jzumi Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakawicz, Roman Sakowicz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saiki, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji. Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi. Sakamoto, Jason. Sakamoto, Jason. Sakamoto, Vuki. Sakarov, Alexandre. Sakarov, Alexandre. Sakarov, Alexandre. Sakarov, Roman. Sakowicz, Roman. Sakowicz, Roman. Salantipour, Ashkan Salandria, Kerry. Salánki, Katalin. Salas, Lucas. Salazar, Nina.	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 095 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 0944
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saiki, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji. Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi. Sakamoto, Jason. Sakamoto, Jason. Sakamoto, Vuki. Sakarov, Alexandre. Sakarov, Alexandre. Sakarov, Alexandre. Sakarov, Roman. Sakowicz, Roman. Sakowicz, Roman. Salantipour, Ashkan Salandria, Kerry. Salánki, Katalin. Salas, Lucas. Salazar, Nina.	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 095 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 0944
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saiki, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kenji Saito, Kenji Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Roman Sakowicz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas Salazar, Nina Salemi, Michelle	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 094
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakarov, Alexandre	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 776 .TP 029 .WP 183 .ThP 356 .TP 221 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 240 .TP 240 .TP 243
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Kaji Saito, Kaji Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakawro, Jason Sakamoto, Jason Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Roman Sakowicz, Roman Sakawita, Katalin Salantipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas Salazar, Nina Salemi, Michelle Salgueiro, Jessica Salgueiro, Jessica	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 776 .TP 028 .MP 701 .TP 099 .WP 183 .Th 356 .TP 221 .TP 021 .Th 604 .Th 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .Th 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 236 .MP 501 .MP 504
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakarov, Alexandre	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 776 .TP 028 .MP 701 .TP 099 .WP 183 .Th 356 .TP 221 .TP 021 .Th 604 .Th 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .Th 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 236 .MP 501 .MP 504
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jzumi Sakamoto, Jason Sakamoto, Yuki Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Roman Sakawicz, Roman Sakawicz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas Salazar, Nina Salemi, Michelle Salgueiro, Jessica Salgueiro, Jessica Salgueiro, Jessica Salgueiro, Jessica	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 7713 .MP 7713 .MP 7721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .Th 356 .TP 221 .TP 021 .Th 604 .Th 119 .TP 503 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .TP 083 .Th 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 236 .MP 504 .TP 236 .MP 504 .TP 236 .MP 044 .TP 240 .TP 236 .MP 044
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saiki, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakawra, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Jason Sakarov, Alexandre Sakellakis, Minas Sakowicz, Roman Sakawicz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas Salazar, Nina Salemi, Michelle Salgueiro, Jessica Salgueiro, Jessica Salgueiro, Jessica Salgueiro, Luis Sali, Andrej	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 776 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .TP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 236 .MP 501 .MP 501 .MP 501 .MP 501 .MP 501 .MP 03:50
Sahin, Cagla Sahni, Narinder Saidi, Mouna Saiki, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kenji Saito, Mak Saji, Hisashi Sakai, Takero Sakakiyama, Joji Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Izumi Sakamoto, Jason Sakamoto, Jason Sakamoto, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakarov, Alexandre Sakawiz, Roman Salamtipour, Ashkan Salandria, Kerry Salánki, Katalin Salas, Lucas Salazar, Nina Salemi, Michelle Salgueiro, Jessica Salgueiro, Jessica Salgueiro, Luis Sali, Andrej Salih, Bekir	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 721 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .TP 119 .TP 503 .MP 263 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 250 .MP 601
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Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kazuki Saito, Kaji, Hisashi Sakai, Takero Sakakiyama, Joji. Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakamoto, Jusinas Sakowicz, Roman Salandria, Kerry Salanki, Katalin Salas, Lucas Salajueiro, Jessica Salgueiro, Jessica Salgueiro, Jessica Sali, Andrej Salih, Bekir Salinas, Nicole	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 776 .TP 029 .WP 183 .ThP 356 .TP 221 .TP 021 .ThP 604 .ThP 119 .TP 503 .MP 263 .WP 095 .WP 095 .WP 096 .MP 456 .TP 083 .ThP 675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 240 .TP 240 .TP 240 .TP 240 .TP 251 .MP 044 .TP 170 .TP 261 .MP 044 .TP 170 .TP 261 .MP 044 .TP 170 .TP 170 .TP 170 .MP 170
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Sahin, Cagla Sahni, Narinder Saidi, Mouna Saidi, Mouna Saiki, Hidekazu Saint-Marcoux, Franck Saint-Marcoux, Franck Saito, Kazuki Saito, Kazuki Saito, Kazuki Saito, Kaji, Hisashi Sakai, Takero Sakakiyama, Joji. Sakakura, Motoshi Sakakura, Motoshi Sakamoto, Jason Sakamoto, Jusinas Sakowicz, Roman Salandria, Kerry Salanki, Katalin Salas, Lucas Salajueiro, Jessica Salgueiro, Jessica Salgueiro, Jessica Sali, Andrej Salih, Bekir Salinas, Nicole	.MOE pm 02:30 .MP 423 .MP 533 .WP 586 .MP 474 .MP 713 .MP 771 .MP 476 .TP 028 .MP 701 .TP 099 .WP 183 .Th 356 .TP 221 .Th 261 .MP 675 .MP 263 .WP 096 .MP 456 .TP 083 .TP 083 .Th 9675 .TOC pm 03:10 .WP 551 .MOE am 08:50 .WP 044 .TP 240 .TP 236 .MP 501 .MP 504 .TP 236 .MP 504 .TP 236 .MP 504 .TP 236 .MP 504 .TP 236 .MP 504 .TD am 10:10 .TOE pm 03:50 .WP 600 .Th 227 .Th 220 .WOA pm 02:50

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Salivo, Simona	
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Sallam, Sahar	
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Sallaras, Fallokios	JA alli 00.30
Samburova, Vera	VVP 136
Sammon, Chris	TP 330
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Samonig, Martin	TP 058
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Sanders, Melinda	MP 035 MP 390 MP 196 MP 273 MP 274 TP 689 ThP 382
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Sanders, Melinda Sanders, Phillip Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Patience Sanderson, Patience Tho Sandhu, Davinder Sandlers, Yana Sandor, Joshua Sandoval, Jeremy. Sandoval, Jeremy. Sandoval, Wendy	MP 035MP 390MP 196MP 273MP 274TP 689TP 382WP 536TP 132MP 686ThP 124MP 686ThP 407ThP 407ThP 407
Sanders, Melinda Sanders, Phillip Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Patience Sanderson, Patience Tho Sandhu, Davinder Sandoru, Joshua Sandoval, Jeremy Sandoval, Jeremy Sandoval, Wendy Sandoval, Wendy	MP 035 MP 390 MP 196 MP 273 MP 274 MP 278 MP 274 MP 536 MP 536 MP 536 MP 132 MP 536 MP 1345 MP 686 ThP 345 ThP 407 ThP 407 ThP 241 ThP 598
Sanders, Melinda	MP 035 MP 390 MP 196 MP 273 MP 274 MP 278 MP 536 MP 536 MP 536 MP 536 MP 544 MP 686 MP 124 MP 686 MP 124 MP 686 MP 273 MP 241 MP 686 MP 8830 MP 345 MP 400 M
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Sanders, Melinda Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Patience Sanderson, Patience Sanderson, Patience Sanderson, Patience Sandlers, Yana Sandor, Joshua Sandor, Joshua Sandoval, Jeremy Sandoval, Jeremy Sandoval, Wendy	MP 035MP 390MP 196MP 274TP 689WP 536TP 132 DD pm 03:50ThP 124MP 686ThP 345ThP 400ThP 407ThP 598ThP 598ThP 598ThP 598TMP 597MP 113
Sanders, Melinda Sanders, Phillip Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Patience Sanderson, Patience Sanderson, Patience ThC Sandhu, Davinder Sandlers, Yana Sandor, Joshua Sandoval, Jeremy Sandoval, Jeremy Sandoval, Wendy Sandoval, Wendy Sandoval, Wendy Sandoval, Wendy Sandoval, Wendy Sandoval, Wendy Sandoval, Dewakar Sans, Marta	MP 035MP 390MP 196MP 273MP 274TP 689TP 132MP 536ThP 124MP 686ThP 407ThP 407ThP 407ThP 598 DD am 08:30WP 057MP 113
Sanders, Melinda Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Jennifer Sanderson, Patience Sanderson, Patience Tho Sandhu, Davinder Sandlers, Yana Sandor, Joshua Sandoval, Jeremy Sandoval, Jeremy Sandoval, Wendy	MP 035 MP 390 MP 196 MP 273 MP 274 MP 278 MP 274 MP 536 MP 536 MP 536 MP 124 MP 686 ThP 345 MP 407 ThP 407 ThP 241 ThP 598 DD am 08:30 MP 131 ThP 262 DF pm 04:10
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Sanders, Melinda	MP 035MP 390MP 196MP 274TP 689Th 382WP 536Th 132 DD pm 03:50 D pm 03:50 ThP 124MP 686ThP 400ThP 241ThP 241ThP 598 DD am 08:30WP 057MP 113ThP 262 DD pm 04:10Th 262 DD pm 04:10Th 329 DD pm 04:30
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Sanders, Melinda	MP 035 MP 390 MP 196 MP 273 MP 274 MP 536 MP 536 MP 274 MP 536 MP 536 MP 536 MP 536 MP 132 MP 536 MP 686 MP 686 MP 407 MP 687 MP 407 MP 407 MP 133 MP 241 MP 686 MP 179 MP 113 MP 686 MP 179 MP 1841 MP 484
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Satta, Rosalba		Schey, Kevin
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Saul, Richard		Schey, Kevin
Sauri, Josep		Schey, Kevin
Sausen, John		Schieltz, David
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Savas, Jeffrey		Schilling, Birgit
Savas, Jeffrey		Schimelfenig, Colby
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Schueler, Kathy	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10
Schueler, Kathy	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629
Schueler, Kathy	WP 585 ThP 681 MP 119 MP 675 MP 477 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629 ThP 110 ThP 696
Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schuld, Nathan. Schulte, Julia Schultz, J. Albert.	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 MP 484 MOD pm 03:10 MP 629 ThP 110 MP 690 WP 285
Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schuld, Nathan. Schulde, Julia. Schultz, J. Albert. Schultz, Lauren.	WP 585 ThP 681 MP 119 MP 675 MP 477 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629 ThP 110 ThP 696 WP 285 WP 557
Schueler, Kathy	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 ThP 110 ThP 696 WP 285 WP 257 ThP 122
Schueler, Kathy	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629 WP 285 WP 557 ThP 122 MP 266
Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schulg, Kevin. Schuld, Nathan Schulte, Julia. Schultz, J. Albert. Schultz, Lauren. Schultz, Kevin. Schultze, Kevin. Schultze, Kevin.	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629 ThP 110 ThP 696 WP 285 WP 557 ThP 1226 MP 269 MP 269 ThP 431
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Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schuhann, Andrea Schulte, Julia Schultz, J. Albert. Schultz, Lauren. Schultz, Nichol. Schultze, Kevin.	WP 585 ThP 681 MP 119 MP 675 MP 477 WP 680 TP 681 WP 484 MOD pm 03:10 ThP 110 ThP 696 WP 285 WP 557 ThP 122 MP 266 MP 269 ThP 431 MP 269 ThP 431 MP 249
Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schuld, Nathan. Schulte, Julia Schultz, J. Albert. Schultz, Lauren. Schultz, Nichol. Schultze, Kevin.	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 ThP 110 ThP 696 WP 285 MP 557 ThP 122 MP 266 MP 269 ThP 431 MP 269 ThP 431 WP 241
Schueler, Kathy Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schug, Kevin. Schuld, Nathan Schulte, Julia Schultz, J. Albert Schultz, Lauren. Schultz, Nichol. Schultz, Kevin. Schultz, Kevin. Schultz, Kevin. Schultz, Kevin. Schultz, Schultz, Schultz, Schultz, Schultz, Schultz, Schultz, Kevin. Schultz, Kevin. Schultz, Sabine. Schulz, Sabine. Schum, Simeon. Schumacher, Katherine.	WP 585 ThP 681 MP 119 MP 675 MP 477 TP 297 WP 680 TP 681 WP 484 MOD pm 03:10 MP 629 WP 285 WP 585 MP 269 MP 269 MP 269 MP 269 MP 281 WP 241 ThOD pm 02:50
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Schwendeman, Anna	
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Scott, Christopher	ThP 692
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Seaver. Samuel	
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Seebart, Corrine	TP 610 WP 412
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Seebart, Corrine Seefeldt, Lance Seeholzer, Steven H	TP 610 WP 412 MP 573 ThP 344
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Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 WP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575 TP 118
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 ThP 653 MP 575 TP 118 am 10:10
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575 MP 575 TP 118 am 10:10
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575 MP 575 TP 118 am 10:10
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, WeiTOF Shabanowitz, Jeffrey	ThP 054 ThP 055 ThP 040 ThP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575 TP 118 am 10:10 TP 578 TP 578
Serpa, Jason	ThP 054 ThP 055 ThP 040 ThP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 ThP 653 MP 575 TP 118 am 10:10 TP 578 TP 578
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 TP 653 MP 575 TP 118 am 10:10 TP 578 TP 671 TP 671 TP 671 WP 098 TP 400
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 TP 653 MP 575 TP 118 am 10:10 TP 578 TP 671 TP 671 TP 671 WP 098 TP 400
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 TP 257 TP 118 am 10:10 TP 578 TP 578 TP 671 YP 098 TP 400 WP 343
Serpa, Jason	ThP 054 ThP 055 ThP 040 TP 597 MP 674 WP 503 ThP 123 MP 689 MP 222 TP 257 MP 575 MP 575 MP 578 TP 118 am 10:10 TP 578 TP 671 WP 098 TP 400 WP 343 ThP 303
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shadid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott	ThP 054ThP 055ThP 040ThP 597ThP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597ThP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 578TP 671WP 098TP 400WP 343TP 303WP 343
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 198WP 618
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222ThP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 198WP 618
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222ThP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 198WP 618
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 578TP 671WP 098TP 400WP 343ThP 303WP 438MP 198WP 488WP 618WP 459
Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Dimple Shah, Hardik Shah, Punit.	ThP 054ThP 055ThP 040ThP 057ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343MP 198WP 438MP 198WP 618WP 618WP 459TP 299
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabaffer, lan Shaffer, lan Shaffer, Scott Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit	ThP 054ThP 055ThP 040ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303MP 198WP 438WP 438WP 438WP 418WP 411WP 459WP 459TP 299TP 299
Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Dimple Shah, Hardik Shah, Punit.	ThP 054ThP 055ThP 040ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303MP 198WP 438WP 438WP 438WP 418WP 411WP 459WP 459TP 299TP 299
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 401WP 401MP 459TP 299TP 299TP 299TP 321WP 247
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shadid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 348WP 418WP 618WP 401MP 459TP 299TP 291TP 247TP 671
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shadid, Mohammad Shaffer, lan Shaffer, Scott Shaffer, Scott Shaffer, Scott Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222ThP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 618WP 401MP 459TP 299TP 291TP 292TP 291WP 247ThP 671WP 686
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shadid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222ThP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 618WP 401MP 459TP 299TP 291TP 292TP 291WP 247ThP 671WP 686
Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shadid, Mohammad Shaffer, lan Shaffer, lan Shaffer, Scott Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan Shah, Vinit	ThP 054ThP 055ThP 040ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343MP 198WP 343MP 198WP 618WP 618WP 459TP 299TP 299TP 321WP 247ThP 671WP 686WP 466
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabaffer, lan Shaffer, lan Shaffer, lan Shaffer, Scott Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan Shah, Vinit Shah, Ninit Shah, Sheerin	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343MP 303WP 438WP 419WP 618WP 401MP 459TP 299TP 299TP 321WP 247ThP 671MP 671MP 671MP 676WP 466WP 057
Serpa, Jason	ThP 054ThP 055ThP 040ThP 597ThP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 438WP 419WP 459TP 299TP 299TP 299TP 299TP 321WP 247ThP 671MP 686WP 057 pm 04:10
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabaffer, lan Shaffer, lan Shaffer, lan Shaffer, Scott Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan Shah, Vinit Shah, Ninit Shah, Sheerin	ThP 054ThP 055ThP 040ThP 597ThP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 438WP 419WP 459TP 299TP 299TP 299TP 299TP 321WP 247ThP 671MP 686WP 057 pm 04:10
Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan Shah, Vinit Shah, Rohan Shah, Vinit Shahidi-Latham, Sheerin Shahidi-Latham, Sheerin Shain, Kenneth	ThP 054ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10TP 578TP 671WP 098TP 400WP 343ThP 303WP 438WP 418WP 618WP 618WP 401MP 459TP 299TP 291TP 291TP 321WP 247ThP 671MP 686WP 057 pm 04:10WP 440
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Serpa, Jason Serpa, Jason Serpa, Jason Serrano, Mahalia Servage, Kelly Seserko, Lauren Seshu, J Sethi, Manveen Setiawati, Tania Seto, Yasuo Seulen, Sarah Severin, India Seyoum, Berhane Sha, Long Sha, Wei TOF Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabanowitz, Jeffrey Shabaffer, lan Shaffer, lan Shaffer, Scott Shah, Dimple Shah, Dimple Shah, Hardik Shah, Hardik Shah, Hardik Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Punit Shah, Rohan Shah, Vinit Shah, Rohan Shah, Vinit Shahidi-Latham, Sheerin Shahidi-Latham, Sheerin Shain, Kenneth	ThP 054ThP 055ThP 040ThP 055ThP 040ThP 597MP 674WP 503ThP 123MP 689MP 222TP 257ThP 653MP 575TP 118 am 10:10 am 10:10TP 578TP 671WP 098TP 671WP 343MP 198WP 343MP 198WP 618WP 618WP 401MP 459TP 299TP 299TP 321WP 247ThP 671WP 247ThP 671MP 686WP 466WP 466WP 463WP 440WP 631ThP 602

Shan, Baozhen	MP 591
Oliuli, Daoziicii	TP 052
Shan, Baozhen	TP 088
Shan, Baozhen	ThP 322
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Shan, Baozhen	ThD 655
Shanmuga Velandy, Sriram	IIIF 050
Snannuga velandy, Siliani	IVIP 450
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Shao, Chun	1hP 683
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Sharma, Sandeep	ThP 700
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Sharma, Seema	I NP 362
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Sharma, Vagisha	WP 073
Sharma, Vaneet	TP 308
Sharon, Michal	ThP 623
Sharon, Michal	ThOE am 10:10
Sharp, Joshua	
Sharp, Joshua	MD 503
Sharp, Joshua	
Sharp, Joshua	
Sharp, Joshua S	ThP 642
Shatz, Whitney	TOB am 09:50
Shaw, Gary	MP 513
Shaw , Gary	ThP 218
Shaw, Gary	
Shaw, Jared	
Shaw , Jared	
Shaw, Jared	TP 660
Shaw, Jared	ThD 375
Shaw, Jared	
Shaw, Jared	WOD pill 04.10
Shaw, Jared	1P 3/4
Shaw, Jared	TOD pm 02:30
Shechter, David	TP 578
Sheeler, Ryan	MP 683
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oncomin, corgoy	MP 339
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Sheff, JoeySheffield, Sarah	WP 261 ThP 181
Sheff, JoeySheffield, SarahSheflin, Amy	WP 261 ThP 181 MP 548
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheiba, Naglaa	WP 261 ThP 181 MP 548 WP 228
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheiba, Naglaa Sheils, Wayne	
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheiba, Naglaa Sheils, Wayne Shek, Iris	WP 261 ThP 181 MP 548 WP 228 ThP 359 WP 106
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Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 359 WP 106 MP 189 MP 677
Sheff, Joey	WP 261
Sheff, Joey	WP 261WP 181WP 548WP 228WP 106WP 106MP 188MP 677TP 198WP 659
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 189 MP 677 TP 196 WP 658
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheilin, Amy Sheils, Waglaa Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh	WP 261 ThP 181 MP 548 WP 262 ThP 358 WP 106 MP 189 MP 677 TP 198 ThP 710
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheilin, Amy Sheils, Waglaa Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh	WP 261 ThP 181 MP 548 WP 262 ThP 358 WP 106 MP 189 MP 677 TP 198 ThP 710
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheilin, Amy Sheils, Naglaa Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh	WP 261 ThP 181 MP 548 WP 262 ThP 358 WP 106 MP 189 MP 677 TP 198 WP 667 ThP 710 ThP 441
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheflin, Amy Sheilan, Naglaa Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelay, Jacob	WP 261 ThP 181 MP 548 WP 252 ThP 359 WP 106 MP 189 MP 677 TP 198 WP 657 ThP 710 ThP 441 MP 001 ThP 259
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheiba, Naglaa Sheils, Wayne Sheis, Vis Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelelar, Ashutosh Shelden, Curtis Shelley, Jacob Shelley, Jacob	WP 261 ThP 181 MP 548 WP 228 ThP 359 WP 106 MP 189 MP 677 TP 198 WP 658 ThP 710 ThP 410 ThP 258 ThP 258
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheflin, Amy Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jacob	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 188 MP 677 TP 198 WP 659 ThP 441 MP 001 ThP 259 TP 007 WP 363
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 441 MP 001 ThP 258 TP 907 WP 363 ThP 136
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheflin, Amy Sheilin, Any Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Sheller, Ashutosh Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jake Shellie, Robert Shen, Boyu	WP 261 ThP 181 MP 548 WP 262 ThP 359 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 441 MP 001 ThP 259 TP 007 WP 363 ThP 136
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheflin, Amy Sheilin, Any Sheils, Wayne Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Sheller, Ashutosh Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jacob Shelley, Jake Shelley, Jake Shellie, Robert Shen, Boyu Shen, Hong	WP 261 ThP 181 MP 548 WP 262 ThP 358 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 441 MP 001 ThP 258 ThP 363 ThP 363 ThP 136 ThP 136 ThP 287
Sheff, Joey	WP 261 ThP 181 MP 548 WP 252 ThP 359 WP 106 MP 189 MP 677 TP 198 WP 657 ThP 710 ThP 441 MP 001 ThP 259 TP 007 WP 363 ThP 287 WP 036
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 188 MP 677 TP 198 WP 659 ThP 710 ThP 441 MP 001 ThP 259 TP 007 WP 363 ThP 136 ThP 136 ThP 267 TP 269 TP 07
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 188 MP 677 TP 198 WP 658 ThP 710 ThP 441 MP 001 ThP 287 WP 363 ThP 136 ThP 287 ThP 287
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 241 MP 001 ThP 287 WP 363 ThP 287 WP 036 ThP 287 WP 036 ThP 267 ThP 201 ThP 201
Sheff, Joey	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 241 MP 001 ThP 287 WP 363 ThP 287 WP 036 ThP 287 WP 036 ThP 267 ThP 201 ThP 201
Sheff, Joey	WP 261 ThP 181 MP 548 WP 262 ThP 359 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 269 ThP 269 ThP 287 WP 036 ThP 287 WP 036 ThP 287 WP 036 ThP 287 WP 036 ThP 297 ThP 201 WP 220 WP 688
Sheff, Joey	WP 261 ThP 181 MP 548 WP 262 ThP 358 WP 106 MP 189 MP 677 TP 198 WP 667 ThP 710 ThP 441 MP 001 ThP 258 ThP 136 ThP 136 ThP 136 ThP 287 WP 036 ThP 207 ThP 207 ThP 207 ThP 207 WP 202 WP 688 MP 648
Sheff, Joey Sheffield, Sarah. Sheflin, Amy Sheflin, Amy Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelley, Jacob Shen, Short Shen, Short Shen, Short Shen, Shichen Shen, Shichen Shen, Shichen	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 188 MP 677 TP 198 WP 658 ThP 710 ThP 441 MP 001 ThP 259 TP 007 WP 363 ThP 136 ThP 287 WP 036 ThP 287 WP 036 ThP 287 WP 036 ThP 287
Sheff, Joey Sheffield, Sarah Sheflin, Amy Sheflin, Amy Sheils, Wayne Sheis, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Sheley, Jacob Shelley, Jacob Shen, Sholen Shen, Shichen Shen, Shichen Shen, Shichen	WP 261 ThP 181 MP 548 WP 228 ThP 385 WP 106 MP 186 MP 677 TP 186 WP 656 ThP 710 ThP 441 MP 001 ThP 287 WP 363 ThP 136 ThP 287 WP 026 ThP 287 WP 026 ThP 287 WP 026 ThP 260 ThP 260 ThP 260 ThP 260 ThP 260 ThP 261 ThP 261
Sheff, Joey Sheffield, Sarah. Sheflin, Amy Sheflin, Amy Sheils, Wayne Shek, Iris Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelar, Ashutosh Shelley, Jacob Shen, Short Shen, Short Shen, Short Shen, Shichen Shen, Shichen Shen, Shichen Shen, Shichen	WP 261 ThP 181 MP 548 WP 228 ThP 369 WP 106 MP 189 MP 677 TP 198 WP 659 ThP 710 ThP 241 MP 001 ThP 257 WP 363 ThP 136 ThP 287 WP 036 ThP 287 WP 036 ThP 207 ThP 201 WP 220 WP 688 MP 648 ThP 692 MP 049

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Shen, Xingqui	
Shen, Yufeng	
Shende, Vikram	
Sheng, Huaming	IVIP 247
Sheng, Huaming	
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Sheng, HuamingMOH	pm 04:10
Sheng, Quanhu	
Sheng, Xinlei	
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Sherman, Jamie	
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Shi, Liuqing	
Shi, Liuqing WOC	
Shi, Riyi	
Shi, Stephen	
SHI, Stone DH	
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Shi , Tujin	WP 695
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Shi, Yao	
Shi, Yatao	
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Shida, Yasuo	
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Shih, Chia-Lung	
Shih, Mack	
Shima, Keisuke	
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Soles, lan	ThOA am 08:3ThP 51ThP 53MP 25WOB pm 03:5Th 67ThP 52 ThOA am 09:5 ThOA pm 03:1TP 51MP 26MP 03MP 64	04670400097642
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Soles, Ian. Solis, Nestor. Solivio, Beulah. Soliiec, Morgan. Solliec, Morgan. Solntsev, Stefan. Solntsev, Stefan. Solntsev, Stefan. Solntsev, Stefan. Soloutsev, Stefan. Soloutsev, Stefan. Soloutsev, Stefan. Soloutsev, Stefan. Soloutsev, Stefan. Solouki, Touradj.	ThOA am 08:3	046704000976423790258
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Song, EhwangWOE	E pm 02:50
Song, Fenhong	MP 671
Song, Hangtian	
Song, Jing	
Song, Jiu-LiWOC	
Song, Liguo	
Song, Lili	WP 033
Song, Linxia	ThP 361
Song, Panshu	
Song, Qingyu	
Song, Qingyu	IP 380
Song, Qingyu	
Song, Ting	
SONG, WEI	
Song, Yang	WP 203
Song, Yifan	WP 580
Song, Young-Ho	
Song, Yu	
Song, Yuanyuan	
Song, Yue	
Song, Zifeng	
Soni, Tanu	
Soni, Tanu	
Sonnett, Matthew	
Sontag, Ryan	MP 287
Soo, Po-Chi	WP 493
Sood, Amika	ThP 642
Soons, Zita	
Sophie, Ayciriex	
Sørensen, Søren	
Sorger, Peter	
Soria, Jean-Charles	
Soriano, Brian	
Soriano, Brian	
Sorokin, Anatoly	
Sorokin, Anatoly	
Sorokin, Anatoly	ThP 451
Sortwell, Caryl	ThP 683
Sosic, ZoranThOE	3 pm 02:50
Sosienski, Theresa	ThP 174
Sosienski. Theresa	TP 178
Sosienski, TheresaSosienski, Theresa	
Sosienski, Theresa	TP 197
Sosienski, Theresa	TP 197 TP 208
Sosienski, Theresa Sosienski, Theresa Soucek, Karel	TP 197 TP 208 MP 128
Sosienski, TheresaSosienski, TheresaSoucek, KarelSoucheray, Margaret	TP 197 TP 208 MP 128 WP 717
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala	TP 197 TP 208 MP 128 WP 717 MP 546
Sosienski, Theresa	TP 197 TP 208 MP 128 WP 717 MP 546 WP 340
Sosienski, Theresa	TP 197 TP 208 WP 128 WP 717 MP 546 WP 340 WP 125
Sosienski, Theresa	TP 197TP 208MP 128WP 717MP 546WP 340MP 125
Sosienski, Theresa	TP 197TP 208MP 128WP 717MP 546WP 340MP 125TP 290WP 487
Sosienski, Theresa	TP 197TP 208MP 128WP 717MP 546WP 340MP 125TP 290WP 487
Sosienski, Theresa	TP 197TP 208MP 128WP 717MP 546WP 340MP 125TP 290VP 487MP 464
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian. Southern, Mark Souza, Rafael. Souza, Rafael. Souza, Rafael. Souza, Silva, Erica Sowole, Modupeola	TP 197TP 208WP 128WP 717WP 340WP 340WP 125TP 290WP 487MP 464Th 599
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew	TP 197TP 208WP 128WP 717WP 546WP 340WP 125TP 290WP 487WP 487MP 464Th 599MP 255
Sosienski, Theresa. Sosienski, Theresa. Soucek, Karel	TP 197TP 208WP 128WP 717MP 546WP 340MP 125TP 290WP 487MP 464MP 469MP 255MP 255
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha	TP 197TP 208MP 128WP 717MP 546WP 340MP 125TP 290WP 487MP 464ThP 599MP 255MP 265MP 213
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha Spaeth, Christian	TP 197TP 208WP 717MP 546WP 340MP 125TP 290WP 487MP 464ThP 599MP 265MP 265MP 213
Sosienski, Theresa Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza, Fafael Souza, Brica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha Spaeth, Christian Spahr, Christopher	TP 197TP 208WP 128WP 717MP 546WP 340MP 125TP 290WP 487WP 487MP 464ThP 599MP 265MP 213MP 130ThP 573
Sosienski, Theresa Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian. Southern, Mark Souza, Rafael. Souza, Rafael. Souza, Rafael. Souza, Firca Sowole, Modupeola Soyk, Matthew Spadafora, Natasha. Spadafora, Natasha. Spadafora, Natasha. Spaeth, Christian Spahr, Christopher. Spakowicz, Daniel.	TP 197TP 208WP 128WP 717MP 546WP 340MP 125TP 290WP 487MP 464ThP 599MP 265MP 265MP 213MP 130ThP 573 A pm 02:50
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha Spadth, Christian Spahr, Christopher Spakowicz, Daniel WOA Sparkman, O	TP 197TP 208WP 717WP 717WP 546WP 340WP 125TP 290WP 487MP 464ThP 599MP 213MP 213MP 130MP 130
Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha Spadafora, Natasha Spadafora, Christopher Spakowicz, Daniel Sparkman, O Sparks, Darrell WOO	TP 197TP 197TP 208WP 128WP 717MP 546WP 340MP 125TP 290WP 487MP 464ThP 599MP 255MP 265MP 213MP 130ThP 573 AP m 02:50TP 018 C am 08:50
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Sosienski, Theresa Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spaeth, Christian Spahr, Christopher Spakowicz, Daniel WO/Sparkman, O Sparks, Darrell Sparvero, L.J Sparvero, Louis	TP 197TP 197TP 208WP 128WP 717MP 546WP 340MP 125TP 290WP 487WP 487MP 464ThP 599MP 265MP 213MP 130ThP 573 A pm 02:50TP 018 C am 08:50TP 347ThP 305
Sosienski, Theresa Sosienski, Theresa Sosienski, Theresa Soucek, Karel Soucheray, Margaret Soumyanath, Amala Southard, Adrian Southern, Mark Souza, Rafael Souza, Rafael Souza, Rifael Souza, Rifael Souza, Rifael Souza, Rafael Souza-Silva, Erica Sowole, Modupeola Soyk, Matthew Spadafora, Natasha Spadafora, Natasha Spadafora, Natasha Spaeth, Christian Spahr, Christopher Spakowicz, Daniel Sparkman, O Sparks, Darrell Sparvero, LJ Sparvero, Louis Specht, Harrison	TP 197TP 197TP 208WP 717MP 546WP 340MP 125WP 487WP 487WP 265MP 265
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Sperling, Michael	
Sperling, Michael	ThP 259
Spicer, Vic	TP 102
Spicer, Vic	ThP 434
Spicer, Vic	ThD 500
Spicer, Vic	111P 529
Spicer, Victor	
Spilling, Christopher	MP 159
Spindel, Eliot	
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Spinler, Jennifer	WP 431
Spitznogle, Alyssa	MP 331
Spjuth, Ola	TOA pm 02:30
Spraggins, Jeffrey	WD 275
Spraggins, Jeffrey	
Spraggins, Jeffrey	MP 303
Spraggins, Jeffrey	ThP 270
Spraggins, Jeffrey	
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Spraggins, Jeffrey	WP 295
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Spraggins, Jeffrey	WOD pm 03:50
Springer, Clayton	MP 444
Springer, Timothy	ThP 206
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Spruce, Lynn	InP 344
Sprung, Robert	WP 050
Sreekumar, Arun	MP 478
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Sreekumar, Arun	WP 482
Sreenivasan, Uma	TP 645
Sridhar, Epari	
Sridhar, Epari	WP 055
Srikanth, Jandhyam	WP 642
Sripathi, Srinivas	
Srivastava, Mayank	
Srivastava, Sanjay	WP 047
Srivastava, Sanjay	WP 128
Srivastava, Sanjeeva	ThP 051
Srivastava, Sanjeeva Srivastava, Sanjeeva	ThP 051
Srivastava, Sanjeeva Srivastava, Sanjeeva Srivastava, Shiv	ThP 051 WP 055 TP 098
Srivastava, Sanjeeva Srivastava, Sanjeeva	ThP 051 WP 055 TP 098
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Srivastava, Sanjeeva Srivastava, Sanjeeva Srivastava, Shiv Srivastava, Sudhir Srzentic, Kristina Srzentic, Kristina	ThP 051 WP 055 TP 098 TP 098 MP 664 TP 662
Srivastava, Sanjeeva Srivastava, Sanjeeva Srivastava, Shiv. Srivastava, Sudhir Srzentic, Kristina Srzentic, Kristina Srzentic, Kristina	ThP 051WP 055TP 098TP 098MP 664TP 662WOC am 09:50
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Staples, Gregory	WP 643
Stapleton, Donald	ThP 681
Stapleton, Heather	.MOD pm 03:50
Stappert, Florian	ThP 192
Stark, David	MP 294
Stark, Ken	MP 408
Stark, Ken	
Starodubtseva, Natalia	MP 112
Startek, Michał	MP 317
Stauber, Jonathan	ThP 007
Stauber, Jonathan	TP 096
Stauber, Jonathan	WP 307
Stauber, Jonathan	TOB am 08:30
Staudt, Michelle	
Stawicki, Todd	
Staymates, Matthew	
Stead, Sara	
Stearns, Rick	
Stearns, Rick	MP 363
Steed, Rtia	WP 189
Steers, Maximilian	ThP 491
Stefanski, Anja	
Stehr, Henning	ThP 669
Steigenberger, Barbara	MP 585
Steimling, Justin	ThP 074
Steimling, Justin	TP 226
Steimling, Justin	ThP 703
Stein, Stephen	
Stein, Stephen	MP 318
Stein, Stephen	MP 319
Stein, Stephen	
Stein, Stephen	ThP 242
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Stavena lennitte	ThD 572	Strob luctio	WD 562	Sun Liangliana	WD 517
Stevens, Jennittestevens, joan		Stroh, Justin Strohl, Kingman		Sun, Liangliang	
Stevens, Joan		Stroiny, Chelsee		Sun, Mai Sun, Mei	
Stevens, Joan		Strulson, Christopher		Sun, Peng	
Stevens, Joan		Strupat, Kerstin		Sun, Qi	
Stevens, Joan		Strupat, Kerstin		Sun, Qiushi	
Stevens, Stanley		Stryffeler, Rachel		Sun, Rachel	
Stevens, Stanley		Strynar, Mark		Sun, RacheL	
Stevens, Stanley		Stucchi, Riccardo		Sun, Ramon	
Stevens Jr, Stanley		Studer, Rolf		Sun, Ruixiang	
Stevenson, David		Stuff, John		Sun, Ruixiang	
Stevenson, Douglas		Stühler, Kai		Sun, Shisheng	
Stevenson, Monica		Stultz, Conner		Sun, Shixin	MP 208
Stevenson, Tanner		Stummer, Walter	ThOF pm 03:10	Sun, Xuefei	MP 611
Stewart, Paul	MP 693	Stump, Curtis	MP 159	Sun, Zhe	WP 348
Stewart, Paul	ThP 120	Stumpf, Chris	TP 002	Sun, Zhi	TOA am 09:10
Stewart, Tyler	WP 248	Stumpf, Chris	TOB pm 03:10	Sundberg, John	MP 039
Steyn, Adrie	MP 447	Stuppard, Rudy	TOE am 09:10	Sunderhaus, Elizabeth	MP 424
Stickle, Dawn	MP 027	Stützer, Alexandra		Sung, Pamela	
Stickney, Morgan	TP 132	Su , Dian	TP 048	Sung, Ting-Yi	WP 081
Stickney, Morgan	ThOD pm 03:50	Su , Dian	TP 055	Sung, Ting-Yi	TP 568
Stickney, Morgan		Su , Hung		Sung, Ting-Yi	
Stingl, Christoph		Su , Hung		Sung, Ting-Yi	
Stinson, Craig		Su , Hung		Suni, Veronika	
Stites, Ryan		Su , Pei		Suo, Zucai	
Stiving, Alyssa		Su , Shan		Suppinger, Chelsea	
Stiving, Alyssa		Su, Xiaomeng		Surma, Michal	
Stock, Ulrich		Su , Yan		Surowiec, Kazimierz	
Stocks, Bradley		Subramanian, Kartik		Suryawanshi, Nitish	
Stockwell, Brent		Subramanyam, Chakrapani		Suryawanshi, Nitish	
Stoddart, Fraser		Suchy, Milos		Suryawanshi, Nitish	
Stoehr, Gabriele		Suckau, Detlev		Suryawanshi, Nitish	
Stokes, Caroline		Suckau, Detlev		Susa, Anna	
Stokes, David		Suckau, Detlev		Sussel, Lori	
Stolee, Jessica		Suckau, Detlev		Sussman, Eric	
Stoll, Dwight		Sudakov, Mikhail		Sussman, Michael	
Stoller, Marshall		Suematsu, Makoto		Sussman, Michael	
Stone, Everett		Suga, Kayako		Sussman, Michael	
Stone, Graham		Sugita, Ritsuko		Sussman, Michael	
Stones, Leanne	•	Sugitate, Kuniyo		Sutar, Purushottam	
Stopka, Sylwia		Sugitate, Kuniyo		Sutar, Purushottam	
Stopka, Sylwia		Sugiura, Yuki		Sutar, Purushottam	
Stopka, Sylwia		Sugiyama, Naoyuki		Sutar, Purushottam	
Stopka, Sylwia	INOF am 10:10	Sugiyama, Naoyuki		Suttanitura ekul Suttinana	
Stopka, Sylwia		Sugiyama, Naoyuki		Suttapitugsakul, Suttipong	
Storey, Aaron		Sukhikh, Gennady		Sutton, Daniel	
Storey, KennethStorkel, Stephan		Sukhikh, Gennady Suliburk, James		Suvitaival, Tommi Suyama, Motohiro	
Stow, Sarah				•	
Stow, Sarah		Sulivan, Matthew Sullivan, David		Suzuki, Kenichi Suzuki, Kenichi	
		Sullivan, Michael		Suzuki, Remon	
Stoychev, Stoyan Stoynov, Nikolay		Sultana, Nadia		Suzuki, Shigeru	
Strain. Shinii		Sulzer, Philipp		Suzuki, Shinichi	
Strain, Shinji		Sumino, Hirochika	MOG am 00:50	Suzuki, Takahiro	
Strang, Adam		Summerlin, Don-John		Suzuki, Takashi	
Straseski, Joely		Summers, R. Scott		Suzuki, Toru	
Strassel, Catherine		Sumner, Barbara	•	Suzuki, Yasuhiro	
Stratton, Kelly		Sumner, Heather		Svenningsson, Per	
Stratton, Tim		Sumner, Lloyd		Svensson, Birte	
Stratton, Tim		Sumner, Lloyd		Svobodova, Helena	
Stratton, Tim		Sumner, Lloyd		Swales, John G	
Stratton, Tim		Sumner, Susan		Swaminathan, Kavya	
Stratton, Tim		Sun, Chun-Ye		Swaney, Danielle	
Stratton, Tim		Sun, Congliang		Swanson, Kenneth	
Straub, Julie		Sun, Duxin		Swanson, Kenneth	
Straubinger, Ninfa		Sun, Duxin		Swart, Remco	•
Straubinger, Robert		Sun, Fangxu		Swart, Remco	
Straubinger, Robert		Sun, Hui		Swatkoski, Stephen	
Strauss, Ethan		Sun, Jianghao		Swearingen, Kristian	
Stresau, Dick		Sun, Jinchun		Sweedler, Jonathan	
Strickland, Dudley		Sun, Jinchun		Sweedler, Jonathan	
Strickland, Dudley		Sun, Jinchun		Sweedler, Jonathan	
Strickland, Erin		Sun, Lei		Sweedler, Jonathan	
Strickland, Erin		Sun, Li		Sweedler, Jonathan	
Strittmatter, Nicole		Sun, Liangliang		Sweedler, Jonathan	
Strittmatter, Nicole		Sun, Liangliang		Sweedler, Jonathan	
Strittmatter, Nicole		Sun, Liangliang		Sweedler, Jonathan	
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Sweeney, Andrew		Takats, Zoltan		Tao, Li	
Sweet, Robert		Takats, Zoltan		Tao, Li	
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Sweredoski. Michael		Takayama, Mitsuo		Tao, Weiguo	
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Syage, Jack		Takeo, Emi		Tar, Paul	
Syka, John		Takeuchi, Masayuki		Taraboletti, Alexandra	
Sykes, Craig		Takino, Masahiko		Tarasov, Artem	
Sykes, Craig		Talbert, Lance		Tarasov, Artem	•
Synder, Dalton		Talbot, Kacey		Tarcsa, Edit	
Syue, Pai-Chi		Talbot, Kacey		Tarcsa, Edit	
Szabo, Zoltan		Talbot, Kacey		Tariq, Areeba	
Szabo, Zoltan		Talman, Virpi		Tarnavsky, Mark	•
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Szapacs, Matthew		Tam, Jonathan		Tarolli, Jay	
Szapacs, Matthew		Tamayo, Javier		Tascher, Georg	
Szczepankiewicz, Daniel		Tamayo, Javier		Tascon, Marcos	
Szigeti, Marton		Tamura, Kaipo		Tascon, Marcos	
Szoko, Nicholas		Tamura, Kaipo		Tascon, Marcos	
Szot, Carson		Tan, Chin Pang		Tate, Stephen	
Szpyt, John		Tan, Felicia		Tate, Stephen	
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Tackett, Philip		Tanaka, Satoshi		Taylor, Adam	
Tackett, Philip		Tanassi, Julia		Taylor, Adam	
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Tadrist, Souria		Tang, Brian		Taylor, D. Lansing	
Tafreshian, Amirmahdi		Tang, Fei		Taylor, Michael	
Taguchi, Ayumu		Tang, Haixu		Taylor, Nicholas	
Tahir, Muhammad		Tang, Haixu		Taylor, Paul	
Tai, Hua-Chia		Tang, Haixu		Taylor, Stephen	
Tai, Hua-Chia		Tang, Haixu		Taylor, Stephen	
Tainaka, Yoshikl		Tang, Hsin-Yao		Taylor, Stephen	
Takagi, Masayuki		Tang, Jason			
		•		Taylor, Stephen	
Takahashi, Hidenori		Tang, Jason X.		Tchekhovskoi, Dmitrii	
Takahashi, Hidenori		Tang, Jason X		Tchekhovskoi, Dmitrii	
Takahashi, Hidenori		Tang, Jonathan		Tchekhovskoi, Dmitrii	
Takahashi, Ikuya		Tang, Keqi		Tchekhovskoi, Dmitrii	
Takahashi, Kazuo		Tang, Kwan		Tchekhovskoi, Dmitrii	
Takahashi, Masatomo		Tang, Li		Tchekhovskoi, Dmitrii	
Takahashi, Masatomo		Tang, Lina		Tchekhovskoi, Dmitrii	
Takahashi, Masatomo		Tang, Ning		Tchekhovskoi, Dmitrii	
Takahashi, Masatoshi		Tang, Wei		Tchelepi, Robert	
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Takats, Zoltan		Tannenbaum, Steven		Teo, Guo Ci	
Takats, Zoltan	•	Tao, Andy		Teppo, Jaakko	
Takats, Zoltan	•	Tao, Andy		Terada, Hidetoshi	
Takats, Zoltan		Tao, Andy		Terada, Kentaro	
Takats, Zoltan		Tao, Andy		Teraiya, Milan	
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Teramoto, Kanae	MOH am 08:50
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Termopoli, Veronica	WP 516
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Terwindt, Gisela M	
Tesar, Devin	
Tesler, Larry	
Tester, Abigail	
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Thinius, Marco	
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Thomas, Andreas	
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Thomas, Eric	
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Thomas, Jaron	
Thomas, Mathew	
Thomas, Neil	
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Thomas, Paul	
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Thomas, Peter	
Thomas, Samuel	
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Thompson, Christopher	
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Fimchalk, Cha Fimlin, Jerilyn Fimofeev, Edv Fimp, Gregory Fimpe, Leslie. Fing, Guo We Fing, Guo We Fing, Lily Fing, Michelle Fing, Sonia Fing, Sonia Fing, Zhi Wei.	arles MP	28 12 55 41 32 03 2:5 29 8:3 02 07 9:1 07 35
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Fimchalk, Charimin, Jerilyn Fimofeev, Edv Fimothy Olah Fimp, Gregory Fimpe, Leslie. Fing, Guo We Fing, Guo We Fing, Hishelle Fing, Sonia Fing, Zhi Wei. Fing, Thing,	arles MP	28 12: 55: 41 32: 03: 2:5: 29: 07: 29:1: 07: 35: 8:5: 34: 8:5:
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Fimchalk, Charimin, Jerilyn Fimofeev, Edd Fimothy Olah Fimp, Gregory Fimpe, Leslie. Fing, Alice Fing, Guo We Fing, Lily Fing, Sonia Fing, Sonia Fing, Sonia Fing, Shi Fing, Zhi Wei. Fing, Zhi Wei. Fing, Zhi Wei. Fing, Thimelle Fiquet, Mathie Firunagari, Sa Fishchenko, I Fishkoff, Saris Fitman, Chris	arles MP	28 12: 55: 41: 32: 41: 32: 25: 27: 29: 35: 34: 32: 45: 37: 42: 45: 45: 45: 45: 45: 45: 45: 45: 45: 45
Fimchalk, Charimlin, Jerilyn Fimofeev, Edv Fimothy Olah Fimp, Gregory Fimpe, Leslie. Fing, Alice Fing, Guo We Fing, Guo We Fing, Guo We Fing, Sonia Fing, Sonia Fing, Sonia Fing, Shi Wei. Fing, Shi Wei. Fing, Shi Wei. Fing, Shi Wei. Fing, Shi Wei. Fing, Shi Wei. Fing, Shi Wei. Fing, Thi Wei. Fing, Thi Wei. Fing, Thi Wei. Fishkoff, Sara Fishchenko, I Fishkoff, Sara Fitman, Chris Fitman, Ch	arles	28: 12: 55: 41: 32: 41: 32: 42: 42: 42: 42: 42: 42: 42: 42: 42: 4
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TOMCZYK, INICK	WOD pm 02:30
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Toro, Botros	
Toropygin, Ilya	ThP 034
Torres, Hector	ThP 519
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Torres, Kate	INP 702
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T M	TD 444
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Torres, Matthew	TP 417
Torres, Matthew Tose Lilian	TP 417 MOD am 10:10
Tose, Lilian	MOD am 10:10
Tose, Lilian Tosin, Manuela	MOD am 10:10 ThOC pm 02:50
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie	.MOD am 10:10 ThOC pm 02:50 TP 183
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Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai	MOD am 10:10 ThOC pm 02:50 TP 183 TP 475 ThP 044 WP 268 WP 453
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah	MOD am 10:10 ThOC pm 02:50 TP 183 TP 475 ThP 044 WP 268 WP 453
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark	MOD am 10:10 ThOC pm 02:50 TP 183 TP 475 WP 268 WP 453 ThP 691 MP 114 ThP 263 ThP 263
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Totth, Ronald Totsche, Kai Totten, Sarah Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Kenichi Toyoda, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Michisato	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Michisato Toyooda, Michisato	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Totin, Manuela Totte Djomte, Valerie Toth, Christopher Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark Townsend, Reid Townsend, R. Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Kiminori Toyoura, Masayoshi Traber, Maret Trabjerg, Esben	MOD am 10:10 ThOC pm 02:50
Tose, Lilian Tosin, Manuela Tosin, Manuela Toth, Manuela Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, R. Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Kiminori Toyour, Masayoshi Traber, Maret	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Soshuaine Toth, Ronald Totsche, Kai Totten, Sarah Towsaint, Nora Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Michisato Toyodra, Masayoshi Traber, Mare Trabjerg, Esben Traran, Chris	MOD am 10:10 ThOC pm 02:50
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Tose, Lilian Tosin, Manuela Tosin, Manuela Toth, Manuela Toth, Christopher Toth, Sonald Totsche, Kai Totten, Sarah Towers, Mark Towers, Mark Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Kenichi Toyoda, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Kiminori Toyoda, Kenichi Toyoda, Michisato Toyoda, Kenichi Toyoda, Kenichi Toyoda, Michisato Toy	MOD am 10:10 ThOC pm 02:50
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Kiminori Toyoura, Masayoshi Traber, Maret Trabjerg, Esben Tran, Chris Tran, Duc Tran, Hung Tran, John C	MOD am 10:10 ThOC pm 02:50
Tose, Lilian Tosin, Manuela Toteu Djomte, Valerie Toth, Christopher Toth, Joshuaine Toth, Ronald Totsche, Kai Totten, Sarah Toussaint, Nora Towers, Mark Towers, Mark Towers, Mark Townsend, Arik Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyada, Michisato Toyoda, Michisato Toyoda, Kiminori Toyoura, Masayoshi Traber, Maret Trabjerg, Esben Tran, Chris Tran, Duc Tran, Hung Tran, John C	MOD am 10:10 ThOC pm 02:50
Tose, Lilian Tosin, Manuela Tosin, Manuela Toth, Manuela Toth, Christopher Toth, Sonald Totsche, Kai Totten, Sarah Towers, Mark Towers, Mark Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Townsend, Reid Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Atsuhiko Toyama, Kenichi Toyoda, Michisato Toyoda, Michisato Toyoda, Michisato Toyoda, Kiminori Toyoda, Kenichi Toyoda, Michisato Toyoda, Kenichi Toyoda, Kenichi Toyoda, Michisato Toy	MOD am 10:10 ThOC pm 02:50

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Tuskan, Gerald Tvardovskiy, Andrey Twohig, Marian Tyagi, Manoj. Tyan, Yu-Chang Tyan, Yu-Chang Tyanova, Stefka Tyers, Mike. Tymiak, Adrienne Tymiak, Adrienne Tymiak, Nassos Tyshchuk, Oksana Tyurin, Vladimir	MP 558 WP 154 TP 002 TP 442 ThP 116 ThP 013 WP 714 WP 599 ThP 578 ThOF am 09:10 TP 599 ThP 460
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Tuskan, Gerald Tvardovskiy, Andrey Twohig, Marian Tyagi, Manoj Tyan, Yu-Chang Tyan, Yu-Chang Tyan, Yu-Chang Tyans, Stefka Tyers, Mike Tymiak, Adrienne Tymiak, Adrienne Tymas, Nassos Tyshchuk, Oksana Tyurin, Vladimir Tyurin, Vladimir Tyurin, Vladimir Tyurin, Vladimir Tyurina, Yulia Tyurina, Yulia Tyurina, Vulia Tyurina, Vulia Tyurina, Valia Tyx, Robert Tzafetas, Menelaos Tzeng, Shin-Cheng	MP 558 WP 154 TP 002 TP 442 ThP 116 ThP 116 WP 519 ThP 574 ThP 588 ThOF am 09:10 TP 599 ThP 460 ThP 472 ThP 462 ThP 472 ThP 472 ThP 472 ThP 472 ThP 472 ThP 473 ThP 473
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Vanturini Cabriala	
Venturini, Gabriela	MP 044
Vera, Nicholas B	MOF pm 03:30
Verbeck, Guido	TP 228
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Verbeeck, Nico	
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Verbeke, Lynn	
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Verenchikov, Anatoly	ThP 232
Vereyken, Liesbeth	MP 150
Verhaert, Peter	
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Verheggen, Kenneth	
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Verschueren, Erik	WP 630
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Verthelyi, Daniela	WP 594
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Veryovkin, Igor	
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veseikov, Killii	ThD 264
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Vetere, Alessandro	WOF pm 03:50 MP 170
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Vetere, AlessandroVetere, AlessandroVetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10
Vetere, AlessandroVetere, AlessandroVetere, AlessandroVial, Jérome	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 FhOG am 08:50
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 FhOG am 08:50 TP 135
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 FhOG am 08:50 TP 135
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 FhOG am 08:50 TP 135
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 FhOG am 08:50 TP 135 TP 431 .TOB pm 03:50
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 ThOG am 08:50 TP 135 TP 431 .TOB pm 03:50 ThP 600
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 ThOG am 08:50 TP 135 TP 431 .TOB pm 03:50 ThP 600 MOH pm 03:50
Vetere, Alessandro	WOF pm 03:50 MP 170 ThP 394 .TOG am 09:10 .ThOG am 08:50 TP 135 TP 431 .TOB pm 03:50 ThP 600 MOH pm 03:50 MP 173
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie. Viidanoja, Jyrki Viidanoja, Jyrki	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidalnoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Vijayan, Murali	WOF pm 03:50MP 170ThP 394 .TOG am 09:10 ThOG am 08:50TP 135TP 431 .TOB pm 03:50ThP 600 MOH pm 03:50MP 173MP 174MP 176
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Vijayan, Murali Viljanto, Marjaana	WOF pm 03:50MP 170ThP 394 .TOG am 09:10 ThOG am 08:50TP 135TP 431 .TOB pm 03:50MP 173MP 173MP 174MP 176MP 176MP 176
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Vijayan, Murali Vijiano, Marjaana Villacob, Raul	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viijayan, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viijayan, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marjaana Villacob, Raul Villacob, Raul Villalobos, Manuel	WOF pm 03:50MP 170ThP 394 .TOG am 09:10 .TOG am 08:50TP 135TP 431 .TOB pm 03:50MP 173MP 174MP 176MP 176MP 226WP 287WP 289WP 618
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marjaana Villacob, Raul Villacob, Raul Villalobos, Manuel Villata, Peter	WOF pm 03:50MP 170ThP 394 .TOG am 09:10 ThOG am 08:50TP 135TP 431 .TOB pm 03:50ThP 600 MOH pm 03:50MP 173MP 174MP 176MP 176MP 226WP 287WP 289MP 618MP 037
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Vijayan, Murali Viljanto, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalobos, Manuel Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul Villalato, Peter Villalta, Peter Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Vijayan, Murali Viljanto, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalobos, Manuel Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul Villalato, Peter Villalta, Peter Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul Villacob, Raul Villato, Peter Villalta, Peter Villalta, Peter Villalta, Peter Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marali Viiljanto, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalta, Peter Villalta, Peter Villalta, Peter Villalta, Peter Villalta, Peter Villalta, Peter	WOF pm 03:50MP 170ThP 394TOG am 09:10TP 135TP 431TOB pm 03:50MP 173MP 174MP 176MP 176MP 176MP 226WP 287WP 287WP 289MP 618MP 037ThP 039WP 043WP 545WP 545WP 561WP 561WP 083WP 083
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Viljanto, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalta, Peter	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Baul Villacob, Raul Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villalta, Peter Villeneuve, Daniel	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Villanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villalta, Poter Villalta, Poter Villalta, Poter Villalta, Poter Villalta, Poter Villereuve, Villereuve, Daniel. Villeneuve, Daniel.	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viglino, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marial Villacob, Raul Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villeneuve, Daniel Villeneuve, Daniel Vinaixa, Maria	WOF pm 03:50
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Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalacob, Raul Villata, Peter Villalta, Peter Villen, Judit Villeneuve, Daniel. Villeneuve, Daniel. Vinaixa, Maria Vincenti, Marco.	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Villacob, Raul Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villalta, Peter Villeneuve, Daniel Vinaixa, Maria Vincenti, John Vincenti, Marco	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo. Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Murali Viljanto, Marjaana. Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villalta, Peter Villeneuve, Daniel. Vincent, John Vincenti, Marco Vincent-Maloney, Nick	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viglino, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marai Villacob, Raul Villacob, Raul Villacob, Raul Villacob, Raul Villata, Peter Villalta, Peter Villata, Peter Villeneuve, Daniel Villeneuve, Daniel Vincent, John Vincent, Marco Vincent, Marco Vincent-Maloney, Nick Vinci, Victor	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marali Viiljanto, Marjaana Villacob, Raul Villacob, Raul Villalobos, Manuel Villata, Peter Villalta, Peter Villen, Judit Villeneuve, Daniel Vinaixa, Maria Vincent, John Vincenti, Marco Vincent-Maloney, Nick Vinci, Victor Viner, Rosa	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marjaana Villacob, Raul Villacob, Raul Villacob, Raul Villalabos, Manuel Villata, Peter Villalta,	WOF pm 03:50
Vetere, Alessandro Vetere, Alessandro Vetere, Alessandro Vial, Jérome Vickman, Alison Vidal-de-Miguel, Guillermo Viel, Diane Viglino, Emilie Viglino, Emilie Vidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Jyrki Viidanoja, Marali Viiljanto, Marjaana Villacob, Raul Villacob, Raul Villalobos, Manuel Villata, Peter Villalta, Peter Villen, Judit Villeneuve, Daniel Vinaixa, Maria Vincent, John Vincenti, Marco Vincent-Maloney, Nick Vinci, Victor Viner, Rosa	WOF pm 03:50

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Viner, Rosa		Vujaskovic, Zeljko				TP 486
Viner, Rosa		Vujaskovic, Zeljko				WP 226
Viner, Rosa	TP 625	Vukas, Christian		Wang,	Clay	WP 489
Viner, Rosa	MP 096	Vukelić, Željka	WP 368	Wang,	Daojing	MP 658
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Vinjamuri, Anita	TP 415	Vusurovic, Jovana	WP 560	Wang,	Dongdong	WP 640
Vinueza, Nelson	MP 223	Vyas, Samir	TP 172	Wang,	Dongxue	TP 367
Vinueza, Nelson	ThP 171	Vyatkina, Kira	TP 669	Wang,	Evelyn	TP 182
Violante, Sara	WP 432	Waas, Matthew	TP 564	Wang,	Evelyn	TP 107
Virag, Jitka	ThP 271	Waas, Matthew	TP 565	Wang,	EVELYN	WP 680
Visentin, Sonja	TP 332	Wachter, Franziska	ThP 224	Wang,	Feng	MP 565
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Vissers, Johannes	WP 084	Waelkens, Etienne	WP 280	Wang,	Guisong	WP 573
Vissers, Johannes	ThP 340	Waelkens, Etienne	WOF pm 02:30	Wang,	Guisong	MP 035
Vissers, Johannes	ThP 656	Waelkens, Etienne	WOD pm 03:50	Wang,	Guoxiao	TP 608
Vissers, Johannes	WP 410	Wagar, Lisa	ThP 669	Wang,	Haibo	TP 461
Vissers, Johannes	TP 378	Wager-Miller, James	MOF pm 02:50	Wang,	Hailin	TP 328
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Visswanathan, Ravi		Wagner, Anne				WOF am 09:50
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Vitek, Olga		Wagner, Cornelia				ThP 380
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Vitek, Olga		Wagner, Michel		•		TP 490
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Vizcaino, Juan Antonio		Wagner-Caruso, Kristine				TP 098
Vizeacoumar, Franco		Wagner-Golbs, Antje		•		WOE pm 02:50
Vizeacoumar, Frederick		Wagner-Rousset, Elsa		•		MP 399
Vladimirov, Gleb		Wahls, Wayne				ThP 291
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Vlahakis, Chris		Waidyanatha, Suramya		•		TP 199
Vlaskin, Mikhail		Wainhaus, Samuel		•		MP 252
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Voelger, Hans Rainer		Wajunj, Sujata				TP 486
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Voets, Olaf		Wakabayashi, Masaki		•	•	WP 463
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Voglmeir, Josef		Wales, Thomas		_	-	TP 126
Vogt, Annette		Wales, Thomas				ThP 547
Voinov, Valery		Wales, Thomas E				TOE am 10:10
Voinov, Valery		Walker, Douglas		•		MP 465
Voinov, Valery		Walker, Douglas				MP 155
Voinov, Valery	•	Walker, Douglas		•		MP 156
Volani, Chiara		Walker, Elisabeth				MP 157
Volejnik, Petra		Walker, Francine		•		ThP 459
Volkening, Jeremy		Walker, Gary		•	•	ThP 072
Volkin, David		Walker, Scott				TOE pm 03:50
Volland, Hervé		Walker, Tia		•		WP 169
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Wang Nen	Wang Nan	ThP 196	Wang 7he	TP 668	Wei Pingli	ThD 5/17
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White, Emma White, Emma White, Nicole White, Ruffin White V, Edward White V, Edward White V, Edward Whiteaker, Jeffery Whiteaker, Jeffery Whitehead, Shawn Whitehead, Shawn Whitelegge, Julian Whitelegge, Julian Whitelegy, Gordon Whiteley, Gordon Whiteley, Gordon Whiteson, Katrine Whitey, Maryann Whitman, Jeffrey Whitty, Adrian Whyte-Fagundes, Paige Wicha, Max Wichard, Thomas Wichems, Desmond Wichmann, Christoph	MP 708MP 101TP 022TP 299MP 357TP 284TP 692MP 278TP 291MP 278TP 291ThP 569 pm 03:30TP 563TP 670TP 619WP 403WP 699MP 718ThP 223MP 285ThP 024
White, Emma White, Emma White, Nicole White, Ruffin White V, Edward White V, Edward White V, Edward Whiteaker, Jeffery Whiteaker, Jeffery Whitehead, Shawn Whitehead, Shawn Whitelegge, Julian Whitelegge, Julian Whitelegy, Gordon Whiteley, Gordon Whiteson, Katrine Whitley, Maryann Whitman, Jeffrey Whitty, Adrian Whyte-Fagundes, Paige Wicha, Max Wichard, Thomas Wichems, Desmond Wichems, Desmond Wicher, Alison	MP 708MP 101TP 022TP 299MP 357TP 284TP 692MP 278TP 291ThP 291ThP 569 pm 03:30TP 563TP 670TP 619WP 403WP 699MP 718ThP 223MP 285ThP 024WP 326TP 287
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White, Emma White, Ricole White, Nicole White, Ruffin White V, Edward White V, Edward White V, Edward Whiteaker, Jeffery Whiteaker, Jeffery Whitehead, Shawn Whitehead, Shawn Whitelegge, Julian Whitelegge, Julian Whiteley, Gordon Whiteley, Maryann Whiten White, Maryann Whiten, Paige Wicha, Max Wichard, Thomas Wichems, Desmond Wichemann, Christoph Wicker, Alison Wickramasekara, Samanthi I Wickramasekara, Samanthi I Wickramasekara, Samanthi I	MP 708MP 101TP 022ThP 299MP 357TP 284TP 692MP 703 pm 03:50MP 278ThP 569 pm 03:30TP 563TP 670TP 619WP 403WP 699MP 718ThP 223MP 285TP 287TP 140WP 326TP 140MP 119MP 666TP 19024MP 119MP 666TP 19024MP 119MP 666TP 19020TP 501
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	ThP 602
Wigmore, CassandraThOB	am 10:10
Wijeisnghe, Dayanjan	ThP 015
Wijeratne, Aruna	IP 633
Wijeratne, Neloni Wijeratne, Neloni	TD 397
Wijeratne, Neloni	ThP 307
Wijesinghe, Dayanjan	ThP 125
Wijesinghe. Davanjan	WP 335
Wijesinghe, Dayanjan Wijeweera Patabandige, Milani	WP 251
Wikswo, John	ThP 514
Wilcox, Bruce	MP 623
Wilcox, Bruce	
Wild, Peter	
Wild, Siegfried	MP 130
Wilde, Maurice	IP 229
Wildgoose, Jason Wildgoose, Jason	IVIP 371
Wildgoose, Jason	
Wildgoose, Jason	
Wildgoose, Jason	TP 385
Wildgoose, Jason	TP 391
Wildgoose, JasonWOA	am 09:50
Wildsmith, Kristin	MP 637
Wildsmith, Kristin	WP 320
Wiley, H. Steven	MP 537
Wiley, JoshuaWOG	am 09:10
Wiley, Steven	
Wilharm, ThomasThOH	IVIP 162
Wilhelm, Mathias	MD 604
Wilhelm, Mathias	MP 523
Wilhelm, Mathias	MP 526
Wilhelm, Mathias	TP 367
Wilhelm, Mathias	MP 323
Wilhelm, Mathias	MP 611
Wilhelm, MathiasTOA	am 08:30
Wilhide, Joshua	
Wilhide, Joshua	WP 343
Wilkins, Christopher Wilkins, Christopher	ThP 326
wiikins. Christopher	
Wilkins Christopher	TD 37/
Wilkins, Christopher	TP 374
Wilkins, Christopher Willcox, Dale	TP 374 TP 699
Wilkins, Christopher Willcox, Dale Willems, Sander	TP 374 TP 699 WP 153
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske	TP 374 TP 699 WP 153 WP 156
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske	TP 374 TP 699 WP 153 WP 156
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony TOD Williams, Brad	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10 WP 234
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony TOD Williams, Brad Williams, Brad	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10 WP 234 ThP 584
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Williams, Antony TOD Williams, Brad Williams, Brad Williams, Cody	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10 WP 234 TP 584
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 584TP 083
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony Williams, Brad Williams, Brad Williams, Cody Williams, Evan Williams, Evan	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10 WP 234 ThP 584 TP 083 MP 012
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad Williams, Brad Williams, Cody. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan.	TP 374 TP 699 WP 153 WP 156 WP 566 WP 369 am 10:10 WP 234 TP 584 TP 083 TP 083 TP 252 am 09:30
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willests, Matt. Williams, Antony. Williams, Brad Williams, Brad Williams, Cody. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. TOG Williams, Evan TOG Williams, Evan R	TP 374 TP 699 WP 153 WP 566 WP 369 am 10:10 WP 234 TP 584 TP 083 TP 252 am 09:30 am 09:30
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willests, Matt. Williams, Antony. Williams, Brad Williams, Brad Williams, Cody. Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan TOG Williams, Evan TOG Williams, Evan R	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30MP 440
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30MP 440TP 544
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30MP 440TP 501MP 440WP 084
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt. Williams, Antony Williams, Brad Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Gavin Williams, Gavin Williams, Jason Williams, Jonathan Williams, Jonathan	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30MP 440TP 501MP 440TP 040
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 584TP 584TP 983MP 012 am 09:30 am 09:30MP 440TP 501MP 440TP 502TP 029
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad. Williams, Brad. Williams, Cody. Williams, Evan. Williams, Evan. Williams, Evan. TOG Williams, Evan. ThOH Williams, Jason. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan	TP 374TP 699WP 156WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30MP 440TP 501MP 440TP 501MP 084TP 295ThP 595ThP 656
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30MP 440TP 081MP 440WP 084TP 029ThP 595ThP 656MP 275
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 884TP 083MP 012TP 252 am 09:30 am 09:30MP 440TP 084TP 085TP 556TP 555ThP 565TP 565
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt. Williams, Antony. Williams, Brad Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Jonathan Williams, Kaye	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30MP 440TP 595TP 595ThP 565ThP 485ThP 447
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt. Williams, Antony Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Gavin Williams, Gavin Williams, Jonathan Williams, Kaye Williams, Kaye Williams, Kaye Williams, Kaye Williams, Kevin	TP 374TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 234TP 081MP 013MP 013MP 013MP 013MP 440TP 501MP 440TP 029TP 595ThP 656MP 275ThP 487TP 447MP 214
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony Williams, Brad Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan TOG Williams, Evan TOG Williams, Evan Williams, Jonathan Williams, Kaye Williams, Kaye Williams, Kaye Williams, Kevin Williams, Lee	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30MP 440TP 501MP 440TP 501MP 244TP 029ThP 595ThP 656MP 275ThP 485ThP 447MP 214MP 391
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad. Williams, Brad. Williams, Evan. Williams, Evan. Williams, Evan. TOG Williams, Evan. TOG Williams, Evan. Williams, Evan. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Kaye. Williams, Kevin Williams, Lee Williams, Lee	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 883MP 012TP 252 am 09:30 am 09:30 am 09:30MP 440TP 501MP 440TP 505ThP 555ThP 555ThP 485ThP 447MP 214MP 214MP 214MP 343
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt Williams, Antony Williams, Brad Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan TOG Williams, Evan TOG Williams, Evan Williams, Jonathan Williams, Kaye Williams, Kaye Williams, Kaye Williams, Kevin Williams, Lee	TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 884TP 083MP 012TP 252 am 09:30MP 440WP 084TP 029TP 551TP 655ThP 485TP 447MP 214MP 343TP 445
Wilkins, Christopher Willcox, Dale Willems, Sander Willems, Sander Willerslev, Eske Willetts, Matt. Williams, Antony Williams, Brad Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Evan Williams, Jason Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye Williams, Kaye Williams, Kaye Williams, Kevin Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee	TP 374TP 379TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 584TP 083MP 012TP 252 am 09:30 am 09:30 am 09:30MP 440TP 501MP 084TP 029ThP 595ThP 565ThP 455ThP 485ThP 447MP 214MP 391TP 443TP 443TP 4445TP 4449TP 4449TP 4464
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad Williams, Brad Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee	TP 374TP 374TP 699WP 156WP 156WP 566WP 369 am 10:10WP 234Th 584TP 083MP 012TP 252 am 09:30MP 440TP 501MP 440TP 501MP 214MP 275ThP 485ThP 485ThP 447MP 391TP 443TP 444TP 449TP 444
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad. Williams, Brad. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. TOG Williams, Evan. Williams, Evan. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Kevin Williams, Lee	TP 374TP 374TP 699WP 156WP 156WP 369 am 10:10WP 234ThP 584TP 083MP 012TP 252 am 09:30 am 09:30 am 09:30MP 440TP 501MP 440TP 505ThP 565ThP 447MP 214MP 214MP 391TP 443TP 444TP 054 bpm 03:30
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Kaye. Williams, Lee Williams, Peggy. TOH Williams, Robert	TP 374TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 883MP 012TP 252 am 09:30 am 09:30MP 440TP 501MP 440TP 505ThP 555ThP 565ThP 447MP 214MP 343TP 444TP 449TP 654
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan R Williams, Evan R Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Lee Williams, Peggy. TOH Williams, Robert.	TP 374TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234TP 884TP 083MP 012TP 252 am 09:30MP 440TP 031MP 440TP 054TP 551ThP 455ThP 455ThP 447MP 214MP 343TP 445TP 449TP 449TP 449 m 03:30TP 952 pm 03:50
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan R. Williams, Evan R. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Kevin. Williams, Lee Williams, Robert Williams, Robert Williams, Robert Williams, Rosemary. TOE Williams, Todd	TP 374TP 374TP 699WP 153WP 156WP 566WP 369 am 10:10WP 234ThP 584TP 983MP 012TP 252 am 09:30 am 09:30MP 440TP 501TP 501TP 501TP 505ThP 656MP 275ThP 485ThP 447MP 214MP 214MP 214MP 391TP 449TP 449TP 449TP 449TP 449TP 449TP 449TP 449TP 464TP 054TP 082TP 082TP 082TP 083TP 084TP 054TP 054TP 085TP 085TP 085TP 085TP 085TP 085TP 085
Wilkins, Christopher Willcox, Dale. Willems, Sander. Willems, Sander. Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad. Williams, Brad. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan. Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Lee Williams, Rosemary. Williams, Rosemary. TOE Williams, Todd Williams, Todd Williams, Tyler	TP 374TP 374TP 699WP 156WP 156WP 369 am 10:10WP 234Th 584TP 083MP 012TP 252 am 09:30MP 440TP 501MP 440TP 501MP 244TP 029ThP 585ThP 485ThP 487TP 447MP 214MP 391TP 443TP 449TP 054 pm 03:30TP 082 pm 03:50TP 082 pm 03:50MP 646MP 646
Wilkins, Christopher Willcox, Dale. Willems, Sander Willems, Sander Willerslev, Eske. Willetts, Matt. Williams, Antony. Williams, Brad Williams, Evan. Williams, Evan. Williams, Evan. Williams, Evan R Williams, Evan R Williams, Jonathan Williams, Jonathan Williams, Jonathan Williams, Kaye. Williams, Kaye. Williams, Lee Williams, Peggy. TOH Williams, Robert.	TP 374TP 374TP 699WP 156WP 156WP 566WP 369 am 10:10WP 234TP 983MP 012TP 252 am 09:30MP 440TP 501MP 440TP 501TP 455ThP 485ThP 487TP 449TP 449TP 449TP 449TP 449TP 459TP 466TP 466

Williamson, Robert	M/D 244
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Williamson, Sam	
Williamson, Seth	MP 085
Willis, lan	WP 460
Willis, Peter	
Wilmanowski, Robert	
Wilmanowski, Robert	
Wilmarth, Phillip	
Wilmott, James	
Wilpan, Rob	
Wilson, Abbey WOC	
Wilson, Christopher MOE	nm 04:10
Wilson, lan	
Wilson, Kevin	
Wilson, Landon	
Wilson, Margret	
Wilson, Steve	
Wilson, Steven	INP 426
Winchell, Andrea	
Windisch, Vincent	
Wing, Casey	TP 663
Wing, CaseyThOC	
Wingfield, Jonathan	
Wingfield, Jonathan	
Wingfield, Jonathan	MP 421
Wingfield, Jonathan	ThP 453
Winkler, PaulThOE	3 am 09:10
Winkler, Paul C	
Winkler, Paul CWOE	
Winkler, Stephan	
Winnike, Jason	
Winograd, Nicholas	
Winograd, Nicholas	
Winter, Dominic	
	ThD 536
Winzer, Klaus	MP 492
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Xu, Bin		Yamane, Hisakazu		Yang, Runmin	
Xu , Bin		Yamashita, Toshiyuki		Yang, Shih-Chieh	
Xu, Chongfeng		Yamashita, Toshiyuki		Yang, Shih-Chieh	
Xu, Chongsheng		Yamauchi, Shosei		Yang, Shuang	
Xu, Gege		Yamauchi, SHOSEI		Yang, Shuli	
Xu, Gege		Yamauchi, Yoshio		Yang, Shuming	
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		Yamauchi, Yoshio		Yang, Shuying	
Xu, Gege		Yamazaki, Yuzo		Yang, Sichun	
Xu, Jiaquan		Yamazaki, Yuzo		Yang, Tang	
Xu, Jiaquan		Yamazaki, Yuzo		Yang, Ti	
Xu, Jiaquan		Yamazaki, Yuzo		Yang, Tsuey-Ching	
Xu, Jie		Yammine, Kathryn	•	Yang, Wei	
Xu, Keyang		Yan , Bin		Yang, Weiming	
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Xu, Wei		Yang, Bo		Yang, Zhibo	'
Xu, Wei		Yang, Charles		Yang, Zhiyong	
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Xue, Changhu		Yang, Jing		Yates III, John	
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Yen, Ten-Yang		Yost, Richard		Yu , Zaikuan	
Yeo, Samuel		Yost, Richard		Yu, Zaikuan	
Yeo, Samuel		Yost, Richard		Yu, Zaikuan	
Yeo, Tsin		Yost, Richard		Yu, Zaikuan	
Yeong, Crystal		Yost, Richard		Yu, Zhihao	
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Yi, Xinpei		Young, Rebeccah		Yun, Ki Na	
Yi, Zhannaina		Young, Reuben	'	Yun, Nayoung	
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Yin, Haidi		Yu, Cheng-Han		Zabrouskov, Vlad	
Yin, Hongfeng		Yu, Chuan-Yih		Zabrouskov, Vlad	
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Yong Woon, Shin		Yu, Qing		Zaia, Joseph	
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Yoo, Hyun Ju		Yu, Qing		Zaidi, Asifa	
Yoo, Jong		Yu, Qinying		Zaidi, Tanweer	
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Yoo, Jong Yoo, Jong Shin		Yu, Sean Yu, Shang-Fan		Zaitsu, KeiZaitsu, Kei	
Yoo, Tag Keun		Yu, Wendong		Zakharova, Natalia	
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Yoon, Sohee Yoon, Sung Hwan		Yu, WendongYu, Wendong		Zamarbide, Marta	
Yoon, Sung Hwan		Yu, Xiang		Zambrzycki, Stephen	
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Yoshida, Masaru		Yu , Yang		Zamfir, Alina	
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Yoshizawa, Akiyasu		Yu , Yi-Kuo	·	Zamora, Ismael	
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Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 323MP 611TOA am 08:30ThP 648TP 169TP 169TP 100WP 179TP 010WP 185WP 024TP 534
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205TP 686MP 285MP 523MP 323MP 611TOA am 08:30ThP 648TP 169ThOF pm 03:30WP 179TP 010WP 185WP 024TP 354MP 469TP 357
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30ThP 648TP 169ThOF pm 03:30WP 179TP 010WP 179TP 010WP 185WP 185WP 024TP 534MP 469TP 354TP 354TP 354TP 354
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30ThP 648TP 169ThOF pm 03:30WP 179TP 010WP 179TP 010WP 185WP 185WP 024TP 534MP 469TP 354TP 354TP 354TP 354
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30ThP 648TP 169ThOF pm 03:30WP 179TP 010WP 185WP 024TP 534MP 469TP 354TP 357 ThOG pm 02:30 .ThOC pm 04:10
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 323MP 323MP 611TOA am 08:30ThP 648TP 169 .ThOF pm 03:30WP 179TP 010WP 185WP 024TP 534MP 469TP 354MP 469TP 357 ThOG pm 02:30 .ThOC pm 02:30 .ThOC pm 02:10TOA am 09:50
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30ThP 648TP 169 .ThOF pm 03:30WP 179TP 010WP 185WP 024TP 534MP 469TP 357 ThOG pm 02:30 .ThOG pm 04:10 .TOA am 09:50TP 332
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205TP 686MP 285MP 523MP 323MP 611TOA am 08:30ThP 648TP 169TP 169TP 010WP 179TP 010WP 185WP 024TP 534MP 469TP 357 ThOG pm 02:30 .ThOC pm 04:10TOA am 09:50TP 332TP 332
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30TP 169ThOF pm 03:30MP 179TP 010WP 179TP 010WP 185WP 185WP 185TP 354TP 359TP 359ThOG pm 02:30ThOG pm 03:50TP 332ThP 290MOH am 08:30
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30TP 169TP 169TP 010WP 179TP 010WP 179TP 010WP 185WP 179TP 314MP 469TP 354TP 359TP 359TP 350TP 350
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 323MP 611TOA am 08:30TP 169TP 169TP 169TP 100WP 179TP 010WP 185WP 024TP 354MP 469TP 354TP 357 ThOG pm 02:30TP 357 ThOG pm 09:50TP 332ThOA am 09:50TP 332ThP 290MP 519MP 519
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 323MP 611TOA am 08:30TP 169TP 169TP 169TP 100WP 179TP 010WP 185WP 024TP 354MP 469TP 354TP 357 ThOG pm 02:30TP 357 ThOG pm 09:50TP 332ThOA am 09:50TP 332ThP 290MP 519MP 519
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 323MP 323MP 611TOA am 08:30TP 169TP 169TP 169TP 170TP 170TP 170TP 170TP 170TP 170TP 170TP 354TP 354TP 357TP 352TP 352TP 352TP 352TP 352TP 353TP 353TP 353
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205TP 086MP 285MP 523MP 523MP 611TOA am 08:30MP 611TOA am 08:30WP 179TP 169TP 169WP 179TP 314WP 185WP 024TP 534MP 469TP 357 ThOG pm 02:30ThOC pm 04:10TOA am 09:50TP 332ThP 290MOH am 08:30MP 519ThP 438MOA pm 02:30ThP 150
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205TP 1049TP 285MP 285MP 523MP 523MP 611TOA am 08:30TP 169TP 169TP 169TP 010WP 179TP 010WP 185WP 179TP 010WP 185WP 185TP 354TP 354TP 354TP 354TP 354TP 354TP 357 ThOG pm 02:30ThO pm 04:10TOA am 09:50TP 290MOH am 08:30MP 519MOA pm 02:30ThP 150ThP 150ThP 150ThP 150
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30TP 169TP 169TP 010WP 179TP 010WP 179TP 010WP 185WP 185WP 185WP 185TP 354MP 469TP 354TP 357 ThOG pm 02:30ThP 290MO am 09:50TP 332ThP 290MO am 08:30MP 519ThP 438MOA pm 02:30ThP 150ThP 150ThP 150
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 523MP 611TOA am 08:30TP 169TP 169TP 010WP 179TP 010WP 179TP 010WP 185WP 185WP 185WP 185TP 354MP 469TP 354TP 357 ThOG pm 02:30ThP 290MO am 09:50TP 332ThP 290MO am 08:30MP 519ThP 438MOA pm 02:30ThP 150ThP 150ThP 150
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205ThP 686MP 285MP 523MP 323MP 611TOA am 08:30TP 169TP 169TP 169TP 100WP 179TP 010WP 179TP 344TP 354MP 469TP 354MP 469TP 357 ThOG pm 02:30ThOA am 09:50TP 332ThP 290MP 519MP 519MP 519MP 519MP 519ThP 438MOA pm 02:30ThP 150MOD pm 03:30TP 150MOD pm 03:30TP 249TP 249TP 249TP 249TP 255TOH am 09:50
Zlotnick, Adam	ThP 614TOE am 10:10TP 044TP 205TP 086MP 285MP 523MP 523MP 611TOA am 08:30MP 648TP 169TP 169TP 010WP 179TP 010WP 179TP 314MP 469TP 357 ThOG pm 02:30TP 357 ThOG pm 02:30TP 357 ThOG pm 08:30TP 359TP 359MP 519TP 438MOD pm 03:30TP 249TP 253TP 253TP 249TP 253TP 253TP 253TP 253TP 253TP 253TP 150TP 253TP 260TP 2753TP 2753TP 2753TP 2753TP 2753TP 2753TP 2753TP 2753

