

ASMS NEWS & VIEWS

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ASMS News & Views
Edited by Gavin Reid

FOCUS ON IMAGING MASS SPECTROMETRY: EDITORIAL

847 – 849

Focus on Imaging Mass Spectrometry, Honoring Dr. Richard M. Caprioli,
Recipient of the 2014 ASMS Award for a Distinguished Contribution
in Mass Spectrometry
J.L. Norris and V.M. Bierbaum

FOCUS: IMAGING MASS SPECTROMETRY: ACCOUNT & PERSPECTIVE

850 – 852

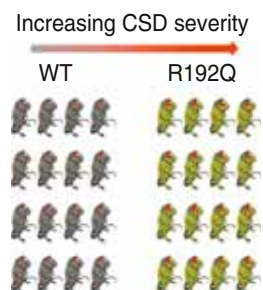
Imaging Mass Spectrometry: Enabling a New Age of Discovery in Biology
and Medicine Through Molecular Microscopy
R.M. Caprioli



FOCUS: IMAGING MASS SPECTROMETRY: RESEARCH ARTICLES

853 – 861

Large-Scale Mass Spectrometry Imaging Investigation of Consequences
of Cortical Spreading Depression in a Transgenic Mouse Model of Migraine
*R.J. Carreira, R. Shyti, B. Balluff, W.M. Abdelmoula, S.H. van Heiningen,
R.J. van Zeijl, J. Dijkstra, M.D. Ferrari, E.A. Tolner, L.A. McDonnell,
and A.M.J.M. van den Maagdenberg*



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862 – 872

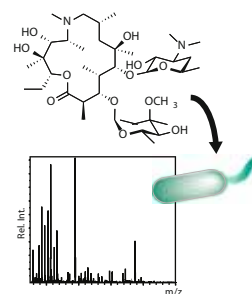
Alternative Surfactants for Improved Efficiency of In Situ Tryptic Proteolysis of Fingermarks

E. Patel, M.R. Clench, A. West, P.S. Marshall, N. Marshall, and S. Francese

**873 – 877**

Mass Spectrometry Analysis of *Pseudomonas aeruginosa* Treated with Azithromycin

V.V. Phelan, J. Fang, and P.C. Dorrestein

**878 – 886**

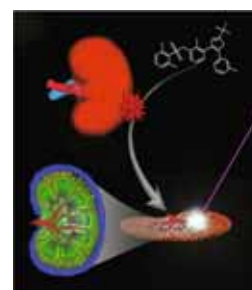
Development of Laser Desorption Imaging Mass Spectrometry Methods to Investigate the Molecular Composition of Latent Fingermarks

N. Lauzon, M. Dufresne, V. Chauhan, and P. Chaurand

**887 – 898**

Imaging MS in Toxicology: An Investigation of Juvenile Rat Nephrotoxicity Associated with Dabrafenib Administration

M.R. Groseclose, S.B. Laffan, K.S. Frazier, A. Hughes-Earle, and S. Castellino

**899 – 910**

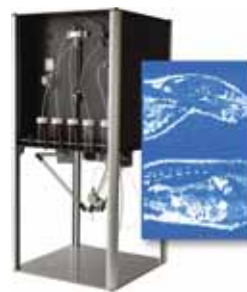
Influence of Desorption Conditions on Analyte Sensitivity and Internal Energy in Discrete Tissue or Whole Body Imaging by IR-MALDESI

E.P. Rosen, M.T. Bokhart, H.T. Ghashghaei, and D.C. Muddiman

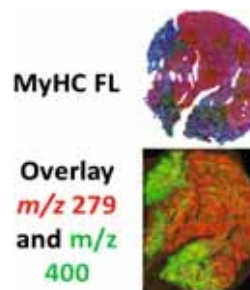


911 – 914

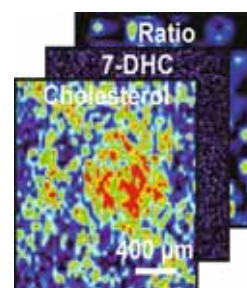
Reproducible Matrix Deposition for MALDI MSI Based on Open-Source Software and Hardware
M. Stoeckli and D. Staab

**915 – 923**

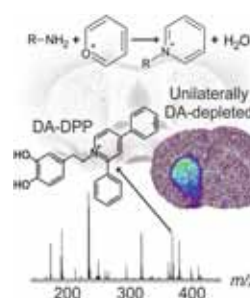
Metabolomic Analysis of Oxidative and Glycolytic Skeletal Muscles by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Imaging (MALDI MSI)
Y.-H. Tsai, T.J. Garrett, C.S. Carter, and R.A. Yost

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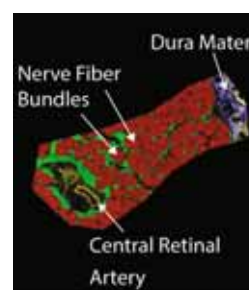
Profiling and Imaging Ion Mobility-Mass Spectrometry Analysis of Cholesterol and 7-Dehydrocholesterol in Cells Via Sputtered Silver MALDI
L. Xu, M. Kliman, J.G. Forsythe, Z. Korade, A.B. Hmelo, N.A. Porter, and J.A. McLean

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Pyrylium Salts as Reactive Matrices for MALDI-MS Imaging of Biologically Active Primary Amines
M. Shariatgorji, A. Nilsson, P. Källback, O. Karlsson, X. Zhang, P. Svenningsson, and P.E. Andren

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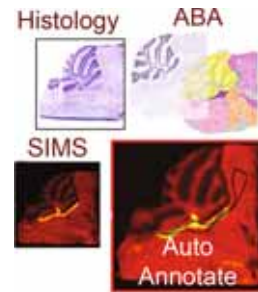
High Spatial Resolution Imaging Mass Spectrometry of Human Optic Nerve Lipids and Proteins
D.M.G. Anderson, J.M. Spraggins, K.L. Rose, and K.L. Schey



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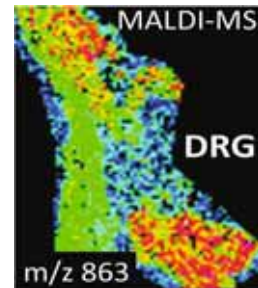
Precise Anatomic Localization of Accumulated Lipids in *Mfp2* Deficient Murine Brains Through Automated Registration of SIMS Images to the Allen Brain Atlas

K. Škrášková, A. Khmelinskii, W.M. Abdelmoula, S. De Munter, M. Baes, L. McDonnell, J. Dijkstra, and R.M.A. Heeren

**958 – 966**

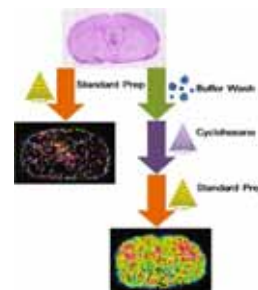
Mass Spectrometry Imaging and GC-MS Profiling of the Mammalian Peripheral Sensory-Motor Circuit

S.S. Rubakhin, A. Ulanov, and J.V. Sweedler

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Imaging MALDI MS of Dosed Brain Tissues Utilizing an Alternative Analyte Pre-extraction Approach

C.M. Quiason and S.K. Shahidi-Latham

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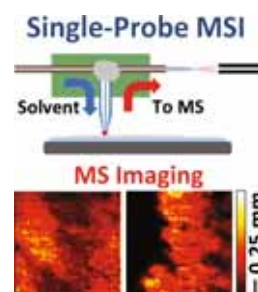
MALDI FTICR IMS of Intact Proteins: Using Mass Accuracy to Link Protein Images with Proteomics Data

J.M. Spraggins, D.G. Rizzo, J.L. Moore, K.L. Rose, N.D. Hammer, E.P. Skaar, and R.M. Caprioli

**RESEARCH ARTICLES****986 – 993**

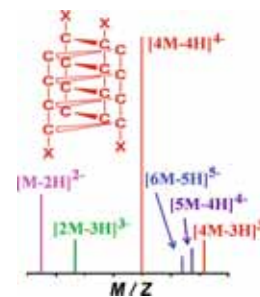
High Resolution Tissue Imaging Using the Single-probe Mass Spectrometry under Ambient Conditions

W. Rao, N. Pan, and Z. Yang



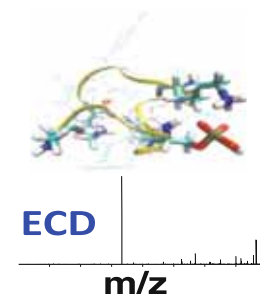
994 – 1003

Formation and Dissociation of the Interstrand i-Motif by the Sequences $d(X_n C_4 Y_m)$ Monitored with Electrospray Ionization Mass Spectrometry
 Y. Cao, Y. Qin, M. Bruist, S. Gao, B. Wang, H. Wang, and X. Guo



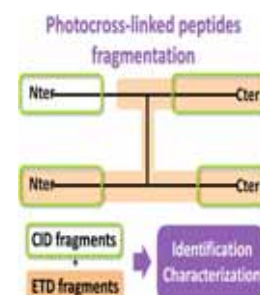
1004 – 1013

Probing the Electron Capture Dissociation Mass Spectrometry of Phosphopeptides with Traveling Wave Ion Mobility Spectrometry and Molecular Dynamics Simulations
 D. Kim, P.-J. Pai, A.J. Creese, A.W. Jones, D.H. Russell, and H.J. Cooper



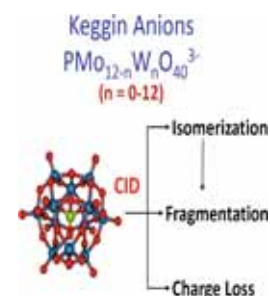
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Photocross-Linked Peptide–Protein Complexes Analysis: A Comparative Study of CID and ETD Fragmentation Modes
 S. Clavier, G. Bolbach, and E. Sachon



1027 – 1035

Gas-Phase Fragmentation Pathways of Mixed Addenda Keggin Anions: $PMo_{12-n}W_nO_{40}^{3-}$ ($n = 0-12$)
 K.D.D. Gunaratne, V. Prabhakaran, G.E. Johnson, and J. Laskin



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Ionization of EPA Contaminants in Direct and Dopant-Assisted Atmospheric Pressure Photoionization and Atmospheric Pressure Laser Ionization
 T.J. Kauppila, H. Kersten, and T. Benter

