

- LaFranchi¹; James Zahardis¹; Giuseppe A. Petrucci¹;
¹University of Vermont, Burlington, VT
- WOF pm 04:20 **Studies of Oxidative Processing of Organic Aerosols Using Aerosol CIMS**; Geoffrey D. Smith¹; John D. Hearn¹; ¹University of Georgia, Athens, GA
- WOF pm 04:40 **Applications of Thermal Desorption Particle Beam Mass Spectrometry to Studies of Atmospheric Organic Aerosol Chemistry**; Paul J Ziemann¹;
¹University of California-Riverside, Riverside, CA

FUNDAMENTALS OF ION MOLECULE REACTIONS

Steven R. Kass, presiding

- WOG pm 03:00 **New Adventures in Gas Phase Organocuprate Chemistry: What Makes a Good Dummy Ligand?**; Richard A.J. O'Hair¹; Nicole Rijs¹; George N. Khairallah¹; Tom Waters¹; ¹University of Melbourne, Melbourne, Australia
- WOG pm 03:20 **Investigation of Gas-phase Reactions of Charged Phenyl Radicals with Peptides in a Fourier-Transform Ion Cyclotron Resonance Mass Spectrometer**; Sen Li¹; Hilka I. Kenttämää¹;
¹Purdue University, West Lafayette, IN
- WOG pm 03:40 **Controversies in the Reactions of Peroxides in Solution and *in vivo*: A Gas Phase Ion Chemistry Approach and Biological Implications**; Shuji Kato¹; Veronica M. Bierbaum¹; G. Barney Ellison¹; Stephen J. Blanksby²; ¹University of Colorado, Boulder, CO; ²University of Wollongong, Wollongong, Australia
- WOG pm 04:00 **Exploring the Roles of the Exchange Mechanism and Reaction Environment in the Hydrogen-Deuterium Exchange Reactions of Oligonucleotides**; Joseph E. Chipuk¹; Jennifer S. Brodbelt¹; ¹University of Texas, Austin, TX
- WOG pm 04:20 **Hydrogen Bonding and Steric Restriction in Gas Phase Chiral Recognition**; Nannan Fang¹; David V. Dearden¹; ¹Brigham Young University, Provo, UT
- WOG pm 04:40 **Negative Ion Chemistry of Simple Organogermanes and Gas-Phase Synthesis of Novel Oxy-Germanium Anions**; Jose M. Riveros¹; Luciano A. Xavier¹; Nelson H. Morgon²; ¹University of Sao Paulo, Sao Paulo, Brazil; ²University of Campinas, Campinas, Brazil

THURSDAY MORNING ORAL SESSIONS, JUNE 1

8:45 – 10:15am: POSTER SESSION AND EXHIBITS

10:15 am – 12:15 pm: PARALLEL SESSIONS

PROTEOMIC BIOMARKERS MOVING FROM DISCOVERY TO THE CLINIC

Nathan Yates, presiding

- ThOA am 10:15 **The Plasma Proteome: Challenges for Biomarker Discovery and Validation**; N. Leigh Anderson¹;
¹Plasma Proteome Institute, Washington, DC
- ThOA am 10:55 **Relative Quantification of Proteins in Plasma from Pancreatic Cancer Patients Using ¹⁸O/¹⁶O Labeling and 2-Dimensional Liquid Chromatography Tandem Mass Spectrometry**; Kenneth L. Johnson¹; Christopher J. Mason¹; Jeanette E. Eckel-Passow¹; Douglas W. Mahoney¹; Ann L. Oberg¹; Terry M. Therneau¹; Janet E. Olson¹; David C. Muddiman²; H. Robert Bergen, III¹; ¹Mayo Clinic College of Medicine, Rochester, MN; ²North Carolina State University, Raleigh, NC

- ThOA am 11:15 **ITRAQ Analysis Facilitates Discovery of Biomarkers from Clinical Samples**; Leroi V. DeSouza¹; Shaun Ghanny¹; Valerie Dube²; Alexander D. Romaschin³; Terence J. Colgan²; K. W. Michael Siu¹; ¹York University, Toronto, Canada; ²Mt. Sinai Hospital, Toronto, Canada; ³Hospital for Sick Children, Toronto, Canada
- ThOA am 11:35 **Validated CNS Lymphoma Biomarkers Discovered in Cerebrospinal Fluid by DeepLook™ Mass Spectrometry**; Sushmita Mimi Roy¹; Christopher H. Becker¹; Howard Schulman¹; James Rubenstein²; ¹Biomarker Discovery Sciences, PPD, Menlo Park, CA; ²University of California, San Francisco, San Francisco, CA
- ThOA am 11:55 **High Resolution Differential Mass Spectrometry (dMS) Reveals Markers of Alzheimer's Disease in Humans**; Ronald C Hendrickson¹; Cloud P Paweletz¹; Matthew C Wiener¹; Anita Lee¹; Li Jenny¹; Robert E Settlage¹; Jeffrey R Sachs¹; Xuemei Zhao¹; Fanyu Meng¹; Ekaterina G Deyanova¹; Jayshree Mistry¹; Gary J Romano¹; Seeburger Jeff¹; Mark S Shearman¹; Adam J Simon¹; Omar Laterza¹; Jeff Zhang¹; Matthew T Mazur¹; Vijay Modur¹; Elizabeth King²; Catharine Joachim²; David A Smith²; Alan B Sachs¹; Nathan A Yates¹; ¹Merck Research Laboratories, Rahway, NJ; ²OPTIMA, University of Oxford, Oxford, UK

PROTEIN NETWORKS AND THEIR REGULATION

Natalie Ahn, presiding

- ThOB am 10:15 **Investigation of Protein Interaction Network of Macromolecular Protein Complex Using a Newly Developed Proteomic Approach-QTAX**; Lan Huang¹; Cortnie Guerrero¹; Xiaorong Wang¹; Christian Tagwerker¹; Peter Kaiser¹; ¹University of California, Irvine, Irvine, CA
- ThOB am 10:35 **An Interaction Map of the Lid of the 19S Proteasome from MS of Intact Complexes**; Michal Sharon¹; Xavier I. Ambroggio²; Raymond J. Deshaies²; Carol V. Robinson¹; ¹University of Cambridge, Cambridge, United Kingdom; ²California Institute of Technology, Pasadena, CA, USA
- ThOB am 10:55 **Regulation of PPAR/RXR/Co-Activator Complex by Partial Agonists**; Patrick R. Griffin¹; Swati Prasad¹; Scott A Busby¹; Michael J. Chalmers¹; ¹The Scripps Research Institute, Jupiter, Florida
- ThOB am 11:15 **Discovering Protein-Protein Interactions Using MuDPIT**; James Wohlschlegel¹; Lani C. Keller²; Edwin P. Romijn¹; Ivan Zamora²; Wallace F. Marshall²; John R. Yates¹; ¹The Scripps Research Institute, LaJolla, CA; ²University of California San Francisco, San Francisco, CA
- ThOB am 11:35 **Probing Non-Covalent Interactions and Post-Translational Modifications in the Heterogeneous Yeast Exosome Protein Complex**; Silvia A. Synowsky¹; Robert H. H. van den Heuvel¹; Shabaz Mohammed¹; Pim W. W. M. Pijnappel¹; Albert J. R. Heck¹; ¹Utrecht University, Utrecht, The Netherlands
- ThOB am 11:55 **Assembling Protein Interactions Networks from Shotgun Proteomics Datasets**; Mihaela E. Sardiū¹; Laurence Florens¹; Ronald C. Conaway¹; Joan Weliky Conaway¹; Michael P. Washburn¹; ¹Stowers Institute for Medical Research, Kansas City, MO

MS IMAGING OF SMALL MOLECULES

Michelle Reyzer, presiding

- ThOC am 10:15 **Direct Visualization of First-Pass Drug Metabolism by Imaging Mass Spectrometry**; Jiwen Chen¹; Walter Korfmacher¹; ¹Schering-Plough Research Institute, kenilworth, nj
- ThOC am 10:35 **Utility of Multistage Mass Spectrometric Imaging by MALDI Ion-Trap MS in the Analysis of Drugs and Metabolites in Biological Tissues**; Dieter Drexler¹; Timothy J. Garrett²; Joseph Cantone¹; Richard Deters³; James Mitroka⁴; Maria Prieto Conaway⁵; Stephen Adams¹; Richard A. Yost²; Mark Sanders⁴; ¹Bristol-Myers Squibb Company, Wallingford, CT; ²University of Florida, Gainesville, FL; ³Bristol-Myers Squibb Company, Syracuse, NY; ⁴Bristol-Myers Squibb Company, Princeton, NJ; ⁵ThermoElectron Finnigan, San Jose, CA
- ThOC am 10:55 **Tissue Imaging of Small Molecules by High Mass Accuracy MALDI**; Catherine Stacey¹; Taeman Kim¹; Melvin Park¹; ¹Bruker Daltonics Inc, Billerica, MA
- ThOC am 11:15 **Imaging Phospholipids in Brain Tissue by Intermediate-Pressure MALDI/MSⁿ on a Linear Ion Trap**; Timothy J. Garrett¹; Richard A. Yost¹; ¹University of Florida, Gainesville, FL
- ThOC am 11:35 **Sampling and Imaging of Tissue Sections Using a Surface Sampling Probe Electrospray Ionization Mass Spectrometry System**; Gary J. Van Berkel¹; Vilmos Kertesz¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN
- ThOC am 11:55 **Biological Cluster-TOF-SIMS Imaging**; David Touboul¹; Alain Brunelle¹; Olivier Lapr v te¹; ¹ICSN-CNRS, Gif-sur-Yvette, France

LIPIDOMICS

Richard B. Cole, presiding

- ThOD am 10:15 **In Situ Structural Characterization of Lipids in Brain Tissue Using MALDI-MS/MS**; Amina S. Woods¹; Hay-Yan J. Wang¹; Mark Little¹; Shelley N. Jackson¹; ¹NIDA IRP, NIH, Baltimore, MD
- ThOD am 10:35 **Nano-LC-MS/MS/MS for the Characterisation of Cholesteriols and Cholestenolones in Rat Brain**; William Griffiths¹; Kersti Karu¹; John Turton¹; Yuqin Wang¹; ¹University of London, London, UK
- ThOD am 10:55 **Taking Advantage of the High Resolving Power of MALDI FTMS for Analyzing Phospholipid Profiles from Mouse Tissues**; Sabine Borgmann¹; Jeffrey J. Jones¹; Charles L. Wilkins¹; Richard M. O'Brien²; ¹University of Arkansas, Fayetteville, AR; ²Vanderbilt University, Nashville, TN
- ThOD am 11:15 **Profiling and Identification of Lipids Associated with M. Tuberculosis Hypervirulence Using FT-MS and FAAT: A New Lipid Analysis Algorithm**; Michael D. Leavell¹; Sally Cantrell²; Lee W. Riley²; Julie A. Leary¹; ¹University of California, Davis, CA; ²University of California, Berkeley, CA
- ThOD am 11:35 **Towards the Accurate Lipidome: Profiling by High Mass Accuracy Measurements**; Dominik Schwudke¹; J. Thomas Hannich¹; Teymuraz Kurzchalia¹; Thomas Moehring³; Jeffrey Oegema²; Andrej Shevchenko¹; ¹Max Planck Institute of Molecular Cell Biology, Dresden, Germany; ²Scionics Computer Innovation GmbH, Dresden, Germany; ³Thermo Electron GmbH, Bremen, Germany
- ThOD am 11:55 **Hyphenated Lipidomics: Characterization of Sphingomyelins in Lipid Extracts**; Jan Willmann¹; Kerstin Mahlstedt¹; Manfred Spraul³; Herbert Thiele²; Dieter Leibfritz¹; ¹University of Bremen, Bremen, Germany;

Germany; ²Bruker Daltonik GmbH, Bremen, Germany; ³Bruker BioSpin GmbH, Karlsruhe, Germany

NANOSPRAY LC/MS OF SMALL MOLECULES

Paul Vourros, presiding

- ThOE am 10:15 **Correlation between Spraying Modes and Ion Chemistry in Electrosprays**; Peter Nemes¹; Akos Vertes¹; ¹George Washington University, Washington, DC
- ThOE am 10:35 **Extending the Benefits of Nanoelectrospray to High-Flow Chromatography Using Multiple Nozzle Arrays to Improve Spray Stability and Mass Sensitivity**; Gary A. Schultz¹; Ellen Pace¹; Christopher Alpha¹; Jack Henion¹; ¹Advion BioSystems, 22 Thornwood Drive, Ithaca, NY
- ThOE am 10:55 **An Integrated Method for Quantification and Identification of Radiolabeled Metabolites: Application of Chip-based Nanoelectrospray and Mass Defect Filter Techniques**; Weiping Zhao¹; Haiying Zhang¹; Mingshe Zhu¹; Bethanne Warrack¹; Li Ma¹; W. Griffith Humphreys¹; Mark Sanders¹; ¹Bristol-Myers Squibb, Princeton, NJ
- ThOE am 11:15 **Carbon Nanotube Liquid Chromatography-FT-ICR: Novel Chromatography in a Microfluidic Chip Coupled to FT-ICR, Fundamental Studies and Applications**; Nicolas L. Young³; Micheal Stadermann¹; Bryan Dick¹; Carlito B. Lebrilla²; Alexandr Noy¹; Olga Bakajin¹; ¹Lawrence Livermore National Laboratory, Livermore, CA; ²University of California, Davis, Davis, CA; ³Both LLNL & UC Davis, Livermore/Davis, CA
- ThOE am 11:35 **Nanospray Ionization Combined with Nanobore Column Switching Chromatography for the Quantitative Analysis of Paclitaxel in Plasma**; Dan J. Magiera¹; Adam A. Peralta²; Gary A. Valaskovic²; Mike S. Lee³; ¹Spherics, Inc., Lincoln, RI; ²New Objective Inc., Woburn, MA; ³Milestone Development Services Inc., New Town, PA
- ThOE am 11:55 **Assessment of Human Exposure to Chemical Agents by High Throughput Chip-Based Nanoelectrospray Mass Spectrometry**; Douglas B. Mawhinney¹; Elizabeth I. Hamelin²; Robert J. Kobelski¹; ¹U.S. Centers for Disease Control and Prevention, Atlanta, GA; ²Battelle/U.S. Centers for Disease Control, Atlanta, GA

SPECTROSCOPY OF IONS

Robert C. Dunbar, presiding

- ThOF am 10:15 **Collision-Induced Dissociation and H/D Exchange Elucidated by Infrared Photodissociation Spectroscopy**; Jos Oomens¹; Nick C. Polfer¹; Bela Paizs²; Robert C. Dunbar³; ¹FOM Institute for Plasma Physics, Nieuwegein, Netherlands; ²German Cancer Research Center, Heidelberg, Germany; ³Case Western Reserve University, Cleveland, OH
- ThOF am 10:35 **Probing the Structures of Simple Ion Complexes Using Infrared Spectroscopy**; Evan J. Bieske¹; ¹University of Melbourne, Melbourne, Australia
- ThOF am 10:55 **IRMPD Studies of Actinide Ligand Complexes**; Michael J. Van Stipdonk¹; Winnie Chien¹; Gary S. Groenewold²; Anita K. Gianotto²; Jos Oomens³; Nick Polfer³; David T. Moore³; Wibe A. de Jong⁴; Lucas Visscher⁵; ¹Wichita State University, Wichita, KS; ²Idaho National Laboratory, Idaho Falls, ID; ³FOM Institute for Plasma Physics, Nieuwegein, The Netherlands; ⁴Pacific Northwest National Laboratory,

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