

Mass Spectrometry Virtual Users' Meeting

September 29 - October 2



Proteomics

<p>PLENARY Sept 29th, 11:30AM CDT</p> <p>Probing the Genomic Dark Matter for the Discovery of Targetable Tumor-specific Antigens <i>Pierre Thibault, Ph.D., Université de Montréal</i></p>	<p>Sept 29th, 12:30PM CDT</p> <p>Beyond Protein Identification: Redefining Versatility for Quantitative Proteomics Applications <i>Khatereh Motamedchabuki, Ph.D., Thermo Fisher Scientific</i></p>	<p>Sept 29th, 1:30PM CDT</p> <p>Increased confidence for proteomics data analysis using Proteome Discoverer Software 2.5 <i>David Horn, Ph.D., Thermo Fisher Scientific</i></p>	<p>Oct 1st, 11:30AM CDT</p> <p>Reimagining Fragment-based Chemical Proteomics for Cell-based Screening of Large Electrophile Libraries <i>Steve Gygi, Ph.D., Harvard Medical School</i></p>	<p>Oct 1st, 12:30PM CDT</p> <p>SureQuant pTyr: a platform for targeted profiling of tyrosine phosphorylation signaling dynamics in human tumors <i>Lauren Stopfer, MIT</i></p>	<p>Oct 1st, 1:30PM CDT</p> <p>Harnessing glycomics and glycoproteomics for cardiovascular precision medicine <i>Rebekah Gundry, Ph.D., University of Nebraska Medical Center</i></p>
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Metabolomics

<p>PLENARY Sept 29th, 10:30AM CDT</p> <p>Dose-Response Metabolomics for Polypharmacology <i>Gary Patti, Ph.D., Washington University</i></p>	<p>Sept 30th, 12:30PM CDT</p> <p>In vivo untargeted stable isotope tracing of T cells <i>Ryan Sheldon, Ph.D., Van Andel Institute</i></p>	<p>Sept 30th, 1:30PM CDT</p> <p>Bringing a spatial perspective to LC-MS/MS-based metabolomics: chemical cartography of host-microbe interactions to guide drug development <i>Laura Isobel McCall, Ph.D., University of Oklahoma</i></p>	<p>Oct 2nd, 10:30AM CDT</p> <p>Multi-platform Mass Spectrometry Methods for Sequencing the Human Exposome <i>Doug Walker, Ph.D., Mount Sinai</i></p>	<p>Oct 2nd, 12:30PM CDT</p> <p>Compound Discoverer 3.2 Software, the Ultimate Toolbox to Analyze Untargeted Metabolomics Data <i>Ralf Tautenhahn, Ph.D., Thermo Fisher Scientific</i></p>	<p>Oct 2nd, 1:30PM CDT</p> <p>Compound Discover 3.2 Software, New GC-Orbitrap Workflows <i>Xin Zheng, Ph.D., Thermo Fisher Scientific</i></p>
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Clinical research, Forensics and Toxicology

<p>PLENARY Sept 29th, 11:30AM CDT</p> <p>Harnessing High Resolution Mass Spectrometry as a Rapid Diagnostic Tool for Characterizing Infectious Diseases <i>Ian Lewis, Ph.D., University of Calgary</i></p>	<p>Sept 29th, 12:30PM CDT</p> <p>Detection of Lipogenesis at Very High Sensitivity Using Gas Chromatography Orbitrap High-Resolution Mass Spectrometry <i>Xiaorong Fu, Ph.D., UT Southwestern Medical Center</i></p>	<p>Oct 2nd, 10:30AM CDT</p> <p>Development and Validation of an LC-MS/MS Method for the Detection of 40 Benzodiazepines and Three Z-Drugs in Blood and Urine by Solid-Phase Extraction <i>Szabolcs Sofalvi., Cuyahoga County Regional Forensic Science Laboratory</i></p>	<p>Oct 2nd, 11:30AM CDT</p> <p>Comprehensive, robust LC-MS/MS toxicology platform and method for high-resolution, accurate mass (HRAM) detection, screening, and quantitation of drugs <i>Kristine Van Natta, Thermo Fisher Scientific</i></p>	<p>Oct 2nd, 12:30PM CDT</p> <p>Harm Reduction Drug Testing by Paper Spray Mass Spectrometry in the COVID-19 Era: Challenges, Changes and Opportunities <i>Chris Gill, Ph.D., Vancouver Island University</i></p>
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Food Safety and Environmental analysis

<p>PLENARY Sept 29th, 9:30AM CDT</p> <p>Use of LC-HRMS in the Analysis of Contaminants in Foods, Feeds, and Environmental Samples <i>Brian Eitzer, Ph.D., The Connecticut Agricultural Experiment Station</i></p>	<p>Sept 29th, 10:30AM CDT</p> <p>Is Dioxin Analysis Still "Rocket Science"? <i>Paul Jones, Ph.D., University of Saskatchewan</i></p>	<p>Sept 29th, 11:30AM CDT</p> <p>Utilizing High-Resolution Orbitrap Mass Spectrometry and Non-Targeted Analysis to Investigate the Chemical Make-Up of Various Complex Mixtures: From Sri Lankan Waters to the Indoor Environment <i>Jake Ulrich and Kirsten Overdahl, Duke University</i></p>	<p>Sept 30th, 9:30AM CDT</p> <p>Non-targeted screening of food packaging chemicals by GC-Orbitrap MS <i>Yelena Sapozhnikova, Ph.D., United States Department of Agriculture</i></p>	<p>Sept 30th, 10:30AM CDT</p> <p>Identification of bioactive contaminants associated with wastewater using a receptor pull-down assay and high-resolution mass spectrometry <i>Brett Blackwell, Ph.D., U.S. EPA Great Lakes</i></p>
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Pharma and BioPharma

<p>PLENARY Sep 29th, 10:30am CDT</p> <p>Orbitrap Exploris 240 Mass Spectrometer with Advanced Data Acquisition Features Enables Confident Metabolite Identification and Structure Elucidation <i>Min (Ben) Jiang,</i> <i>Amgen</i></p>	<p>Sept 29th 11:30am CDT</p> <p>Using the Thermo Scientific Tribrid Fusion MS for Analysis of Nucleosides and Nucleotides <i>Ron Aoyama, Ph.D.,</i> <i>Gilead Sciences</i></p>	<p>Sept 30th 10:30am CDT</p> <p>Reliable quantitation of nitrosamine impurities using high resolution accurate mass Thermo Scientific Orbitrap Exploris 120 MS <i>Hao (Mark) Yang, Ph.D.,</i> <i>Thermo Fisher Scientific</i></p>	<p>Sept 30th 11:30am CDT</p> <p>Compound Discoverer as a Tool for Comparative Evaluation of Drug Metabolism in In-vitro Systems <i>Igor Mezine, Ph.D.,</i> <i>Absorption Systems</i></p>	<p>Oct 1st 10:30am CDT</p> <p>Sensitive, accurate and quantitative characterization of protein biotherapeutics, targets and biomarkers in pharmaceutical matrices <i>Jun Qu, Ph.D.,</i> <i>State University of New York</i></p>

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Hot Topics Panel Discussions

Sept 30th, 10:30am-12:00PM CDT

Overcoming Challenges in Translational Research

Join a panel of translational researchers who will discuss key elements of standardized workflows, from throughput to data processing and share their experience on overcoming challenges of bringing molecular knowledge to the clinic. Come prepare to ask questions about your own challenges and experience and participate in an engaging panel discussion.

Panelists:

Nicholas Seysried, Ph.D., Emory School of Medicine
Thomas Kislinger, Ph.D., University of Toronto
Ventzi Hristova, Ph.D., AstraZeneca

Moderator:

Emily Chen, Ph.D., Thermo Fisher Scientific

Oct 1st, 10:30am-12:00PM CDT

FAIMS Pro Interface Digital Townhall

This is a special technology-focused session featuring applications where differential ion mobility increases selectivity, signal-to-noise, and provides orthogonal separation to help researchers answer interesting biological questions. Multiple end users will present high-level lighting talks focused on how the FAIMS Pro interface has been incorporated into their work and what research challenges it has helped to overcome. The session will be opened to attendees' questions for a highly interactive session promoting a strong learning opportunity.

Panelists:

Oliver Hale, Ph.D., University of Birmingham
Fan Liu, Ph.D., Leibniz-Forschungsinstitut for Molecular Pharmacology
Devin K. Shweppe, Ph.D., University of Washington
Steve Sweet, Ph.D., AstraZeneca
Jay S. Johnson, M.S., Pfizer Worldwide R&D

Moderator:

Aaron Robitaille, Ph.D., Thermo Fisher Scientific

Oct 2nd, 10:30am-11:30am CDT

BioPharma Characterization Host Cell Protein

In this panel discussion, the advantages, requirements and current state for HCP detection and quantification by LC-MSMS is discussed by industry leaders and Thermo Fisher scientific experts. You will have an opportunity to ask questions and engage on a very interactive session.

Panelists:

Jiao Ma, Ph.D., GSK
Andy Mahan, Ph.D., J&J-Janssen
Andrew Williamson, Thermo Fisher Scientific

Moderator:

Lori Stansberry, Thermo Fisher Scientific