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**WATERS EXHIBIT BOOTH #113**
June 15, 7:30 pm to 9:30 pm
June 16 - 18, 9:00 am to 5:00 pm
June 19, 9:00 am to 2:30 pm
Baltimore Convention Center
1 West Pratt Street
Exhibit Hall C - G
Baltimore, MD

**WATERS POSTER PRESENTATIONS**
June 16–19, 10:30 am to 2:30 pm
Baltimore Convention Center
1 West Pratt Street
Poster/Exhibit Hall C - G
Baltimore, MD

**WATERS ORAL PRESENTATIONS**
June 17–19
Baltimore Convention Center
1 West Pratt Street
Baltimore, MD

**WATERS BREAKFAST SEMINARS**
June 16–18, 7:00 am to 8:00 am
Hilton Baltimore
401 West Pratt Street
Key Ballrooms 8, 11, 12
Baltimore, MD

Pre-registration is required. Space is limited. Speak with your Waters Sales representative today to reserve your seat.
MONDAY, JUNE 16

POSTERS: LOCATED IN EXHIBIT/POSTER HALL C - G

**MP 045 - Informatics: Workflow and Data Management**
Quality by Design Method Development with Mass Detection
Sean McCarthy; Margaret Maziarz
Waters Corporation, Milford, MA

**MP 046 - Informatics: Workflow and Data Management**
Tracking Chromatographic Peaks with Mass Detection During Method Development
Margaret Maziarz; Sean McCarthy
Waters Corporation, Milford, MA

**MP 181 - Intact Proteins: Covalent Interactions**
Advances in Native Mass Spectrometry-based Methods for the Analysis of Non-covalent Protein Complexes
Jonathan P. Williams; Malcolm Anderson; Lidia Jackson; Kevin Giles; Jeff Brown
Waters Corporation, Wilmslow, UK

**MP 265 - Systems Biology: General**
A Data Independent Strategy for a Multi-omic Approach to Investigate Obesity Treatment within a Mouse Model
Gertjan Kramer1; Nicholas Dekker1; Lee A. Gettings2; Victoria Lee1; Robert J. Begnon3; James I. Langridge3; Johannes P.C. Vissers3; Jan M.G. Aerts1
1Academic Medical Centre, University of Amsterdam, Amsterdam, Netherlands; 2Waters Corporation, Wilmslow, UK; 3University of Liverpool, Liverpool, UK

**MP 338 - Food Safety**
Advances in Screening Capability for the Detection of Residues and Contaminants in Complex Samples Using Accessible Mass Detection
Sara Stead1; Howard Read2; Kevin Cook; Eimear McCall1; Veronica Lattanzio1; Dominic Roberts2; Jennifer Burgess1; Ramesh Rao1; Mark Benvenuti2
1Waters Corporation, Milford, MA; 2Waters Corporation, Wilmslow, UK; 3Institute of Sciences of Food Production (ISPA), Bari, Italy

**MP 350 - Food Safety**
Rapid Analysis of Sudan and Other Prohibited Dyes in Chilli Powder Using Ultra Performance Liquid Chromatography and Tandem Mass Spectrometry
Dimple Shah; Evelyn Goh; Thomas C. Beatty
Waters Corporation, Milford, MA

**MP 404 - Instrumentation: New Concepts**
A Novel Atmospheric Interface for the Analysis of Tissue Using Rapid Evaporative Ionization Mass Spectrometry (REIMS)
Cristina Guallar-Hoyas1; Ottmar Goll1; Lajos Gödörházy2; Dániel Szalay2; Tamás Karancs3; Steven Pringle1; Mike Morris1; Zoltan Takats1
1Imperial College London, London, UK; 2Medimass, Budapest, Hungary; 3Waters Corporation, Wilmslow, UK

**MP 409 - Instrumentation: New Concepts**
In vitro Validation of Barley Endopeptidase B2 Specificity by the Degradation of Multiple Endogenous Substrates and Label Free Differential LC-MS
Joanne B. Connolly1; Hanne Damgaard Poulsen2; Jesper Christiansen1; Henrik Brinch-Pedersen2; Giuseppe Dionisio1
1Waters Corporation, Wilmnslow, UK; 2Aarhus University, Slagelse, Denmark; 3Aarhus University, Tjle, Denmark

**MP 674 - Instrumentation: New Concepts**
Tandem Mass Spectrometry Using the Atmospheric Pressure-Electron Capture Dissociation (AP-ECD) Ion Source
Damon Robb1; Jeff Brown2; Mike Morris1
1University of British Columbia, Vancouver, Canada; 2Waters Corporation, Wilmnslow, UK

**MP 675 - Instrumentation: New Concepts**
Atmospheric Pressure Charge Stripping (AP-CS) for the ESI-MS Analysis of Polymeric Compounds
Damon Robb1; Jeff Brown2; Mike Morris1; Michael Blades1
1University of British Columbia, Vancouver, Canada; 2Waters Corporation, Wilmnslow, UK

**MP 695 - Instrumentation: New Concepts**
Atmospheric Pressure Charge Stripping (AP-CS) for the ESI-MS Analysis of Polymeric Compounds
Damon Robb1; Jeff Brown2; Mike Morris1; Michael Blades1
1University of British Columbia, Vancouver, Canada; 2Waters Corporation, Wilmnslow, UK

**MP 696 - Instrumentation: New Developments in Mass Analyzers**
An Investigation of the Space of Trajectories in a Novel oa-Tof Geometry
Keith Richardson; John B. Hoyes
Waters Corporation, Wilmnslow, UK

**MP 714 - LCMS: Instrumentation**
Applications of Supercritical Fluid Chromatography for Chiral Metabolite Separations in a DMPK Bioanalytical Laboratory
Hermes Licea Perez1; Dana Knecht1; Christopher Evans1; Mark Wrona2; Paul Rainville2
1Bioanalysis/GSK, King Of Prussia; 2Waters Corporation, Milford, MA

**MP 728 - LCMS Chromatography**
Combining Mass Spectra with UV Spectra for Orthogonal Chromatographic Detection and Peak Identification
Thomas E. Wheat1; Aparna Chavali1; Sean McCarthy1; Paula Hong1; Patricia McConville2
1Waters Corporation, Milford, MA; 2Waters Corporation, Milford, MA

**MP 729 - LCMS Chromatography**
Routine MS Detection Applied to USP Chromatographic Methods
Thomas E. Wheat1; Daniel Root1; Aparna Chavali1; Patricia McConville2
1Waters Corporation, Milford, MA; 2Waters Corporation, Milford, MA

**MP 745 - LCMS Chromatography**
Advancing Host Cell Protein Analyses through Improved Microscale Peptide Separations and 2D UHPLC Chromatography
Matthew Lauber; Catalin Doneanu; Stephan Koza; Weibin Chen; Kenneth Fountain
Waters Corporation, Milford, MA

**MP 750 - LCMS Chromatography**
Enhancing MS Sensitivity in Negative Electrospray Mode by Post-Column Addition of a Modifier
Angela Doneanu; James Murphy
Waters Corporation, Milford, MA

**MP 782 - LCMS Sample Preparation I (Drugs and Metabolites)**
A Simplified Load-Wash-Elute Solid Phase Extraction Protocol for the Oasis® HLB μElution Plate
Xin Zhang; Pamela Iraneta; Frank Marszalkowski
Waters Corporation, Milford, MA
POSTERS: LOCATED IN EXHIBIT/POSTER HALL C - G

TP 004 - Imaging MS: Method Development
Lipid Visualisation and Identification Through Collision Cross Section Aided Correlation of MALDI Imaging and MS/MS Fragmentation Data Sets
Mark Towers; Emmanuelle Claude; Johannes P.C. Vissers
Waters Corporation, Wilmslow, UK

TP 061 - Imaging MS: Disease Markers
Tracking Cholesterol Distribution Following Plaque Formation in a Mouse Model of Atherosclerosis Using Dietary D6-cholesterol and MALDI Imaging Mass Spectrometry
Nathan Hatcher1; Jose Castro-Perez1; Vivienne Mendoza2; Nana Kofi Karikari1; Karen Gagen1; Henry Shion1; Alan Millar1; John Shockcor1; David McLaren1; Vinit Shah1; Stephen Previs1; Karen Akinsanya2; Michele Cleary1; Thomas P. Roddy2; Douglas G. Johns2; Sheng-Ping Wang1
1Merck Research Labs, West Point, PA; 2Merck Research Labs, Kenilworth, NJ; 3Waters Corporation, Milford, MA

TP 156 - Protein Therapeutics: Structural Characterization
Quantitative Profiling Glycans of Therapeutic mAb Using Orthogonal Techniques: Comparison of Subunit 1/2Fc Analysis with the Released Glycan Assay
Henry Shion1; Mark Hilliard2; Ying-Qing Yu1; Weibin Chen1; Nioboh McLaughlin1; Pauline Rudd2
1Waters Corporation, Milford, MA; 2NBRT, Dublin, Ireland

TP 157 - Protein Therapeutics: Structural Characterization
Increasing the Confidence of Sequence Variant Identification by the Development of Integrated Mass Spectrometric and Informatics Workflow
Stephane Houell1; Scott Geromanos2; Andrew Tudor2; Barry Dyson1; Ying Qing Yu1; Weibin Chen1
1Waters Corporation, Milford, MA; 2Waters Corporation, Wilmslow, UK

TP 158 - Protein Therapeutics: Structural Characterization
Automating Characterization of mAb Charge Variants Isolated by Cation Exchange Chromatography Using Integrated LCMS Peptide Mapping and Informatics Workflow
Vera Ivleva1; Robert Birdsall1; Ying Qing Yu1; Weibin Chen1
1Waters Corporation, Milford, MA

TP 215 - Microorganisms: Identification and Characterization
Recycling Old Software – Microbe Identification Using REIMS and Microblynx
Nicole Strittmatter1; Steven Pringle1; Keith Richardson1; Julia Balog1; Laurence Firth1; Zoltan Takats2; Lida Cammack1; Mike Morris1
1Waters Corporation, Wilmslow, UK; 2Imperial College London, London, UK; 3Medimass ltd, Budapest

TP 235 - Antibodies and Antibody: Drug Conjugates
Evaluation of an LC/MS Microfluidic Platform for Quantification of Intact Monoclonal Antibodies
Catalin Doneanu1; Brad Williams1; Paul Rainville1; Weibin Chen1
1Waters Corporation, Milford, MA

TP 236 - Antibodies and Antibody: Drug Conjugates
Development of Integrated Informatics Workflows for the Automated Assessment of Comparability for Antibody Drug Conjugates (ADCs) Using LC/UV and LC/UV/MS
Robert Birdsall1; Henry Shion1; Frank Kotch1; April Xu1; Thomas Porter1; Weibin Chen1
1Waters Corporation, Milford, MA; 2Pfizer Bioprocess Research and Development, Pearl River, NY; 3Pfizer Analytical Research and Development, Pearl River, NY; 4Pfizer Analytical Research and Development, Andover, MA

TP 265 - Biosimilars
Comprehensive Assessment of the Biosimilarity of Protein Biotherapeutics Based on Ion Signal Statistics in LC/MS Peptide Mapping Data
Stephane Houell; Mark Bennett1; Ying Qing Yu1; Weibin Chen1
1Waters Corporation, Milford, MA; 2Nonlinear Dynamics Ltd, Newcastle, UK

TP 392 - Ambient Ionization: Applications
Utilization of Atmospheric Pressure Ionization Coupled to Triple Quadrupole Mass Spectrometry for the Analysis of Mixed-Halo Planar Compounds
Kari Organtini1; Eric Reiner2; Karl Jobst1; Anne Myers1; Adam Ladak1; Douglas Stevens1; Frank Dorman1
1Penn State University, University Park, PA; 2Ontario Ministry of the Environment, Toronto, ON; 3University of Toronto, Toronto, Canada; 4Waters Corporation, Beverly, MA

TP 541 - H/D Exchange, Hardware, Software, and Methodology
Probing Site-Specific Interactions Between Epidermal Growth Factor Receptor and an Adnectin Using HDX-ETD MS Approach
Jing Fang1; Stephane Houell1; Ying-Qing Yu1; Hui Wei1; Jingjie Mo1; Daniel Cohen1; Danlin Xie2; Zheng Lin3; Paul Morris1; Michael Doyle1; Adrienne Tymia1; Weibin Chen1; Guodong Chen1
1Waters Corporation, Milford, MA; 2Bristol-Myers Squibb Company, Princeton, NJ

TP 573 - Environmental Analysis: Pharmaceuticals and Pesticides
Glyphosate and AMPA Analysis in Drinking Water Using Two-Dimensional Liquid Chromatography Mass Spectrometry (2D LC/MS/MS)
Claude Mallet
Waters Corporation, Milford, MA

TP 618 - Drug Metabolism: Qualitative Analysis
Characterisation of Metabolites by Utilising Collision Cross Section Measurements in Conjunction with an Integrated Microfluidic Device
Richard T. Gallagher1; Christine Pattison1; Kathryn Pickup1; Kristin Samuels2; Mike McCullagh3; David S. Douce1
1AstraZeneca, Macclesfield, UK; 2Waters Corporation, Wilmslow, UK

TP 629 - Drug Metabolism: Qualitative Analysis
Utilizing Ion Mobility Drift Times to Correlate and Track Metabolites Across Changing Chromatographic Methods and Modes Including SFC and UHPLC
Hernando Olivos1; Adam Ladak1; Andrew Baker4; Steven Lai1; Yun Alelyunas2; Paul Rainville1; Mark Wrona1
1Waters Corporation, Beverly, MA; 2Waters Corporation, Milford, MA; 3Waters Corporation, Pleasanton, CA

TP 643 - Metabolomics: Untargeted Metabolite Profiling
Metabolomics Profiling Using Atmospheric Pressure Gas Chromatography-MS
Vladimir Shulav2; Ghaste Manoj1; Steven Lai1; Carolina Salazar1; Nobuhiro Suzuki1; Janna Crossley1; Ron Mittler1; James Langridge1; Giuseppe Astarita1; Fulvio Mattivi1
1Waters Corporation, Milford, MA; 2University of North Texas, Denton, TX; 3Fondazione Edmund Mach, San Michele all’Adige, Italy
TP 693 - Approaches to Quantitation
Achieving Maximal Sensitivity Gain When Scaling a Protein Immunocapture Assay from Traditional to Low Micro-Flow LC-MS/MS
Eugene F. Cicimaro1; Bogdan Slezka1; John T. Mehl1; Lorell Discenza1; Asoka Ranasinghe1; Celia D’Arienzo1; Jim Murphy1; Brad Coopersmith1; Paul Rainville1; Catalin Doneanu1; Timothy Olah1
1Bristol-Myers Squibb, Princeton, NJ; 1Waters Corporation, Richboro, PA; 1Waters Corporation, Milford, MA

TP 722 - Instrumentation: New Concepts
Novel Operating Modes of an Ion Mobility Quadrupole Time of Flight Hybrid Instrument
Jason L. Wildgoose; Kevin Giles; Steven Pringle; Keith Richardson
Waters Corporation, Wilmslow, UK

TP 723 - Instrumentation: New Concepts
Design and Utility of a Multi-Pass Cyclic Ion Mobility Separator
Kevin Giles; Jason L. Wildgoose; Steven Pringle; John Garside; Peter Carney; Peter Nixon; David Langridge
Waters Corporation, Wilmslow, UK

TP 724 - Instrumentation: New Concepts
The Extraction of Maximum Information from Individual Ion Arrivals and to Application to Extending the Dynamic Range of IMS-oaTof-MS Data
Martin Green; Garry Scott; Darrell Williams; Tony Gilbert; Keith Richardson; Martin Palmer; Nick Tomczyk
Waters Corporation, Wilmslow, UK

TP 751 - GCMS: Instrumentation and Applications
Methods for Improving the Reproducibility of an Atmospheric Pressure Chemical Ionisation Source for Gas Chromatography Analysis
Gareth Rhys Jones1; David S. Douce2
1Waters Corporation, Wilmslow, UK; 1Waters Corporation, Wilmslow, UK

TP 777 - Polymers
Rapid, Simplified Analysis and Data Interpretation of Biodegradable Polymer Mixtures Using MALDI-IMS
Kirsten Craven
Waters Corporation, Wilmslow, UK

WEDNESDAY, JUNE 18

ORALS: LOCATIONS AND TIMES VARY

Time: 2:30 pm, Wednesday, Exhibit Hall AB
Oral: WOC pm - Ecological and Human Health Environmental Chemistr and Toxicology
Comprehensive Characterization of Mixed-Halogen Dioxins and Furans Generated in Fire Debris Using GCxGC-Tof MS and APGC-TQS
Kari Organtini1; Anne Myers2; Karl Jobst3; Eric Reiner3; Jack Cochran4; Adam Ladak5; Douglas Stevens5; Frank Dormain1
1Penn State University, University Park, PA; 2University of Toronto, Toronto, Canada; 3Ontario Ministry of the Environment, Toronto, ON; 4Restek Corporation, Bellefonte, PA; 5Waters Corporation, Beverly, MA

POSTERS: LOCATED IN EXHIBIT/ POSTER HALL C - G

WP 022 - Informatics: Profile Analysis
The Use of Fragment Ion and Collision Cross Section Calculation in Glucose Units
Mass Measurement with a Calibrated Retention Time
Ying-Qing Yu1; Weibin Chen2; Mark Hilliard2; Niaobh McLoughlin1; Pauline Rudd1
1Waters Corporation, Milford, MA; 1NIBRT, Dublin, Ireland

WP 023 - Informatics: Profile Analysis
Automated Glycan Assignment Using Accurate Mass Measurement with a Calibrated Retention Time in Glucose Units
Ying-Qing Yu1; Weibin Chen2; Mark Hilliard2; Niaobh McLoughlin1; Pauline Rudd1
1Waters Corporation, Milford, MA; 1NIBRT, Dublin, Ireland

WP 123 - Peptides: Quantitative Analysis (Advances in Sample Preparation and Workflow)
A High Sensitivity SPE LC/MS/MS Method for the Quantitation of Bradykinin in Human Plasma Using Novel Integrated Microscale LC/MS Technology
Mary Lame; Erin Chambers; Kenneth Fountain
Waters Corporation, Milford, MA

WP 125 - Peptides: Quantitative Analysis (Advances in Sample Preparation and Workflow)
Novel Integrated Microfluidics Increase Sensitivity and Reduce Sample Volume in a Quantitative LC/MS Assay for rhPTH (Teriparatide) in Human Plasma
Erin E. Chambers1, 2; Mary Lame1; Kenneth Fountain1
1Waters Corporation, Milford, MA; 2King’s College London, London, England

WP 126 - Peptides: Quantitative Analysis (Advances in Sample Preparation and Workflow)
Performance Investigation of a Novel Integrated Microfluidics Platform in High Throughput LC-MS MRM Disease Protein Marker Verification
Chris Hughes; Johannes P.C. Vissers; Lee A. Gethings; James Langridge
Waters Corporation, Wilmslow, UK

WP 274 - Antibodies and Antibody: Drug Conjugates
Characterization of Isomers of Cysteine-Conjugated Antibody Drug Conjugates (ADCs) Using On-line 2D-LC/ MS
Frank Koch1; Robert Birdsell2; Henry Shion1; April Xu2; Thomas Porter1; Weibin Chen1; Pfizer, Pearl River, NY
1Waters Corporation, Milford, MA; 2Pfizer, Andover, MA
WP 280 - Metabolomics: General
Ion Mobility-derived Collision Cross-sections for Metabolomics and Lipidomics
Giuseppe Paglia1; Jonathan P. Williams2; Locharan Menikacarachi3; J. Will Thompson4; Hernando Olivos5; Steven Lai6; Richard Tyldesley-Worster7; Arthur Moseley2; David Grant2; James Langridge6; Bernhard O. Patsson1; Giuseppe Astarita1
1Center for Systems Biology, University of Iceland, Reykjavik, Iceland; 2Waters Corporation, Wilmslow, UK; 3University of Connecticut, Storrs, CT; 4Waters Corporation, Milford, MA; 5Duke University School of Medicine, Durham, NC; 6Waters Corporation, Milford, MA; 7Duke University School of Medicine, Durham, NC; 8Systems Biology Research Group, UCSO, San Diego, CA

WP 586 - Metabolomics: General
A Validated High-throughput Assay for the Quantification of Amino Acids in Metabolic Phenotyping Studies
Nicola Gray1; Robert Plumb2; Ian Wilson1; Jeremy Nicholson1
1Imperial College London, London, London, UK; 2Waters Corporation, Milford, MA

WP 637 - Drug Metabolism: Quantitative Analysis
Metabolism and Bioanalytical Workflows: Achieving Maximum Sensitivity for Drug Metabolism
Jeremy Nicholson1; Robert Plumb2; Ian Wilson1; Jeremy Nicholson1
1Imperial College London, London, London, UK; 2Waters Corporation, Milford, MA

WP 665 - Drug and Metabolite Analysis: Dried Biological Samples
Ion Mobility Mass Spectrometry: A New Approach to Authentication and Routine Screening of Ginsenoside Isomers in Functional Food Products
Michael McCullagh1; David Douce2; Robert Lewis2
1Waters Corporation, Wilmslow, UK; 2Waters Corporation, Wilmslow, UK

WP 666 - Ion Mobility Applications
Discovery of Pesticide Protomers Using Routine Ion Mobility Screening
Michael McCullagh1; Jeff Goshawk1; Severine Goscinny2; Vincent Hanot2; Kieran Neeson1; David Eatough1; Chris Carver1
1Waters Corporation, Wilmslow, UK; 2Institut Scientifique de Santé Publique, Brussels, Belgium

WP 281 - Lipids: Profile Analysis
Analysis of Lipids in Serum Using Continuous Tandem Spectra Acquisition and Customized Instrument Control Software
Joseph A. Hankin1; Robert M. Barkley1; Jeff Brown2; Mike Morris3; Emmy Hoyes1; Richard Chapman1; Robert Murphy1
1University of Colorado Denver, Aurora, CO; 2Waters Corporation, Wilmslow, UK

WP 347 - Food Safety: Pesticides
Rapid Detection of Pesticide Residues in Okra Using Ultra Performance Liquid Chromatography and Tandem Mass Spectrometry
Dimple Shah1; Mark Benvenuti1; Kendon Graham1;PMN Rajesh1; Antonietta Gledhill3; Jennifer Burgess1
1Waters Corporation, Milford, MA; 2Waters Corporation, India, Bangalore, India; 3Waters Corporation, Wilmslow, UK

WP 348 - Food Safety: Pesticides
Quantitative Analysis of Pesticides in QuEChERs Extracts Using APGC/MS/MS
Douglas Stevens; Dominic P. T. Roberts2; Ramesh Rao2
1Waters Corporation, Milford, MA; 2Waters Corporation, Wilsom, UK

WP 349 - Food Safety: Pesticides
Pesticide Screening of Food Samples Using a Prototype Microfluidic Device
Gregory Roman; Lauren Mullin; Gareth Cleland; Dimple Shah; Jennifer Burgess
Waters Corporation, Wilmslow, MA

WP 466 - Food Safety: Pesticides
Correction of Precursor and Product Ion Abundances in Order to Standardize CID Spectra and Improve EcomSO Accuracy for Non-Targeted Metabolomics
Ritvik Dubey1; David Grant1; Dennis Hill1; Steven Lai1; Chen Ming Hui1
1University of Connecticut School of Pharmacy, Storrs, CT; 2Waters Corporation, Beverly, MA; 3University of Connecticut, Dept. of Statistics, Storrs, CT

WP 548 - Small Molecule Quantitation
A Highly Specific Pre-Charged Triphenylphosphine-Based Derivatization Agent for Trace Level Detection of Ethylenelestradiol
Lucie Loukotkova1; Priyanka Chitravathy1; Gordon Surratt2; Goncalo Gamboa da Costa1
1FDA/NCIIR, Jefferson, AR; 2Waters Corporation, Wilmslow, MA
THURSDAY, JUNE 19

ORALS: LOCATIONS AND TIMES VARY

Time: 3:50 pm, Thursday, Room 307-308
Oral: Th08b pm – Instrumentation: Time-Of-Flight Mass Spectrometry

Perfect Timing: Fragment Ion Mobility Based Performance Increase on a QToF Instrument
Dominic Helm1; Christopher J. Hughes2; Johannes P.C. Vissers4; Benjamin Ruprecht3; Hannes Hahne1; Isabelle Becher1; Markus Bantschff1; James I. Langridge1; Bernhard Kuster1
1Technische Universität München, Freising, Germany; 2Waters Corporation, Wilmslow, UK; 3Cellzome, Heidelberg, Germany

POSTERS: LOCATED IN EXHIBIT/ POSTER HALL C - G

ThP 001 - Imaging MS: Instrumentation
Optimization of the MALDI Imaging Laser Repetition Rates Using an Orthogonal MALDI Mass Spectrometer
Emmanuelle Claude; Mark Towers; James Langridge
Waters Corporation, Wilmslow, UK

ThP 036 - Informatics: Quantitation/Validation
Evaluation of Progenesis QI for Proteomics and Progenesis Post-Processor (PPP) as a Simplified Workflow for Ion-Mobility Enabled Data-Independent SILAC Studies
Joanne B. Connolly1; Lee A. Gehings2; Kelly McMahon1; Robert Tonge1; Johannes P.C. Vissers1; Anthony D. Whetton1; Andrew R. Jones3; James Langridge1
1Waters Corporation, Wilmslow, UK; 2University of Manchester, Manchester, UK; 3University of Liverpool, Liverpool, UK

ThP 274 - Proteomics: Clinical Applications
Exploring Resistance to Targeted Therapies Through Pathway-level Proteomics
Lauren C. Keilich1; Andrew J. Phillips2; Katerina Polit1; Xiaoling Song1; Brad J. Williams1; Scott J. Geromanos1; Dustin Yaworsky2; Stuart Welling3
1Department of Chemistry, Yale University, New Haven, CT; 2Department of Pathology, Yale Medical School, New Haven, CT; 3Waters Corporation, Milford, MA

ThP 392 - Lipids: Profile Analysis
Comparative Metabolomics Analysis of Prostate Cancer Cells with Different Ethnic Backgrounds
Julius Nyalwidhe1; Tanya Burch1; Joanh Rhim2; James Langridge4; Andy Baker3; Giorgis Isaac1
1Eastern Virginia Medical School, Norfolk, VA; 2Center for Prostate Disease Research, Bethesda, MD; 3Waters Corporation, Milford, MA; 4Waters Corporation, Wilmslow, UK

ThP 393 - Lipids: Profile Analysis
Lipidomic Analysis of Different Cotton Seed Oil Genotypes Using Novel Analytical and Informatics Tools
Vladimir Shulaev1; Michael Jones2; Drew Sturtevant3; Patrick Horn1; Jenna Crossley1; Kent Chapman1; James Langridge2; Giorgis Isaac1
1University of North Texas, Denton, TX; 2Waters Corporation, Milford, MA; 3Waters Corporation, Wilmslow, UK

ThP 417 - Ambient Ionization: Applications
Metabolomics Study of Arabidopsis Mutants Using Atmospheric Pressure GC-MS1 Approach and Multivariate Statistical Analysis
Carolina Salazar1; Giorgis Isaac2; Steven Lai2; Nobuhiro Suzuki1; Jenna Crossley1; James Langridge1; Ron Mittler1; Giuseppe Asratia1; Vladimir Shulaev1
1University of North Texas, Denton, TX; 2Waters Corporation, Milford, MA

ThP 469 - Ion Mobility: Fundamentals
UVPD and IMS-MS: Photodissociation of Ions Selected by Drift-Time Separation and/or m/z Ratio
Jeff Brown1; Bruno Bellina2; Kevin Giles3; Mike Morris1; Isabelle Compagnon1; Perdita Barran2
1Waters Corporation, Wilmslow, UK; 2Université Lyon, Lyon, France; 3The University of Manchester, Manchester, UK

ThP 498 - Ion Mobility: Applications
Comprehensive Two-Dimensional Separation of Alcohol Ethoxylates Coupling Ion Mobility-Mass Spectrometry and Hydrophilic Interaction Chromatography Using a Customized sub-2 μm Column
Qiang Ma1; Xi Chen2; Hua Bai3; Chao Wang4
1Chinese Academy of Inspection and Quarantine, Beijing, China; 2Purdue University, West Lafayette, IN; 3Waters China, Shanghai, China

ThP 529 - Traditional Chinese Medicine
Identify Chemical and Herbal Components of an Unknown TCM Product Using LC/MS Coupled with a Novel Informatics Platform
Lirui Qiao1; Jing Huang1; Diane Diehl1; Kate Yu2
1Waters China, Shanghai, China; 2Waters Corporation, Milford, MA

ThP 544 - High Mass Accuracy/High Performance MS: Applications
Detection of Persistent Organic Pollutants Using Atmospheric Pressure Gas Chromatography and a Novel Acquisition Mode for Quadrupole Time-of-Flight MS
Lauren Mullin1; Adam Ladak2; Kendon Graham1; Ingrid Ericson Jostgen1; Gareth Cleland1; Bert van Bavel2
1Waters Corporation, Milford, MA; 2Waters Corporation, Beverly, MA; 3MIM Research Centre, Örebro University, Örebro, Sweden

ThP 551 - Environmental Analysis: General
Rapid Separation of Hexabromocyclododecane Diastereomers and Enantiomers Using a Novel Method Combining Supercritical Fluid Chromatography and MS/MS Detection
Lauren Mullin1; Ingrid Ericson Jostgen1; Jennifer Burgess1; Andy Aubin1; Dawei Geng1; Kendon Graham1; Bert van Bavel2
1Waters Corporation, Milford, MA; 2Waters Corporation, Wilmslow, UK; 3MIM Research Centre, Örebro University, Örebro, Sweden

ThP 656 - Environmental Analysis: General
Metabolomics Analysis Reveals Dietary Components in Nipple Aspirate Fluid
Jessica A. Miller1; Patricia A. Thompson1; Andrew Baker2; H-H Sherry Chow3
1University of Arizona Cancer Center, Tucson, AZ; 2Waters Corporation, Milford, MA

ThP 661 - Environmental Analysis: General
Lipidomics of Alzheimer’s Disease Using an Integrated Microfluidic-ion Mobility-MS Device
Steven Lai; Angela Doneau1; James Murphy1; James Langridge1; Giuseppe Asratia1
Waters Corporation, Wilford, MA

ThP 747 - Instrumentation: General
3D Simulation of Quadrupole Mass Filters with Offset and Tilted Rods
David Langridge
Waters Corporation, Wilmslow, UK

ThP 748 - Instrumentation: General
Extending the Linear Dynamic Range of Quadrupole Detectors
Richard Moulds; Daniel J. Kennig; Kenneth Worthington; Steven Pringle
Waters Corporation, Wilmslow, UK

ThP 749 - Instrumentation: General
Design and Performance of a Highly Compact Single Quadrupole Mass Spectrometer
Daniel J. Kennig; Dave Gordon; Richard Moulds; Kate Wyatt; Marcus Dawber; Ian Trivett; Howard Read
Waters Corporation, Wilmslow, UK

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