

ASMS 2012 Oral Session Topics

Accurate Mass Applications in Drug Discovery and Development
Advances in Nano-scale Separations for MS Analysis
Ambient Ionization: Instrumentation and Applications (co-chair, Japanese MS Society)
Antibodies and Antibody-Drug Conjugates
Biomarkers in Drug Discovery and Development
Biomolecular Structure Analysis by Covalent Labeling: Future Directions
Biotherapeutics and Biomarkers: New Developments in Quantitative Analysis
Biotherapeutics and their Impurities and Degradants: Structural Characterization and QC
Biomarkers of Drug Efficacy and Toxicity: Novel MS Approaches
Carbohydrates: New MS Approaches
Component Source Determination for Drugs, Pharmaceuticals, and Homeland Security Applications
Disease Biomarkers and Pathways
Distonic Radical Ions: Fundamentals and Applications (co-chair, Australia/New Zealand MS Society)
Drug and Metabolite Analysis: Novel Approaches for Dried Biological Samples
Environmental Chemistry and Toxicology
Environmental Contaminants: The Role of MS in the 21st Century
FAIMS and DMS: New Developments and Applications
Food "omics": MS Characterization of Food and Nutritional Supplements
Food Safety: Advances in MS for Characterization of Additives and Contaminants (co-chair, Taiwanese MS Society)
FTMS: New Developments in Instrumentation
Fundamentals of Ion Activation and Dissociation
Fundamentals of Peptide Fragmentation
Fundamentals: Ambient and Atmospheric Pressure Ionization
Fundamentals: Ion Spectroscopy
Gas-Phase Ions: Reactions and Dynamics
Glycoproteins: New MS Approaches
H/D Exchange: New Developments in Technology
H/D Exchange: Protein Structure/Function
Imaging MS: Biological Applications
Imaging MS: Instrumentation and Ionization Sources
Imaging MS: Pharmaceutical Applications
Informatics: Identification
Informatics: Quantification
Informatics: Validation
Instrumentation: New Developments in Ionization and Sampling
Intact Proteins
Integrated Qualitative and Quantitative LC-MS for Small Molecule Analysis
Ion Manipulation, Analysis and Detection: New Developments
Ion Mobility: Applications
Ion Mobility: Fundamentals
Ion Traps and Hybrid Instruments: New Developments
Lipids
Metabolomics/Lipidomics: New MS Technologies and Applications (co-chair, Japanese MS Society)
Metabolomics: Clinical Applications (co-chair, Korean MS Society)
Microorganisms: Identification and Characterization
Nucleic Acids
Overcoming Challenges in MS Analysis Through Improvements in Sample Preparation
Petroleum and Biofuel Research: Advances in MS Analyses
Phosphoproteomics

(ASMS 2012 Oral Session Topics, continued)

Plant "omics"

Polymer MS: Materials, Medical Devices, and Pharmaceuticals

Post-translational Modifications: Beyond Phosphorylation

Protein-Protein and Protein-Ligand Interactions: Characterization by Mass Spectrometry

PTMs: Advances in Isolation, Derivatization and Separation

PTMs: Comprehensive Analysis and Combinatorial Patterns (co-chair, Korean MS Society)

Quantification of Targeted Proteins and Post-translational Modifications (co-chair, Singapore MS Society)

Quantitative Analysis by MS in Drug Discovery and Development: Novel Approaches

Quantitative Proteomics

Radical-driven Peptide Fragmentation (co-chair, Hong Kong MS Society)

Regulated Bioanalysis and Diagnostics using High Resolution LC/MS: Headache or Opportunity?

Systems Biology/Cellular Pathways

Time-of-flight Mass Spectrometry: New Developments in Instrumentation and Applications (co-chair, Australia/New Zealand MS Society)

Traditional Chinese Medicine and Bioactive Natural Products: Advances in MS Analysis (co-chair, Chinese MS Society)

ASMS 2012 Poster Session Topics

Agriculture

Ambient Ionization: Applications

Ambient Ionization: Fundamentals

Ambient Ionization: Instrumentation

Antibodies and Antibody-Drug Conjugates

Biomarkers: Discovery

Biomarkers: Quantitative Analysis

Biomolecular Structure Analysis: Chemical Crosslinking

Biomolecular Structure Analysis: Covalent Labeling

Carbohydrates

Component Source Determination for Drugs, Pharmaceuticals, and Homeland Security Applications

Diagnostic Clinical Chemistry

Drug and Metabolite Analysis: Novel Approaches for Dried Biological Samples

Drug Metabolism: High Throughput Analysis

Drug Metabolism: Qualitative Analysis

Drug Metabolism: Quantitative Analysis

Elemental Analysis

Energy: Biofuels and Algae

Energy: Hydrocarbon and Petrochemical

Environmental Analysis: General

Environmental Analysis: Hydrocarbons and DOM

Environmental Analysis: Pharmaceuticals and Pesticides

FAIMS and DMS

Food "omics": MS Characterization of Food and Nutritional Supplements

Food Safety

Forensics

GCMS: Instrumentation and Applications

Geochemistry

(ASMS 2012 Poster Session Topics, continued)

Glycoproteins

H/D Exchange: Hardware, Software and Methodology

H/D Exchange: Protein Structure/Function

High Mass Accuracy/High Performance MS: Applications

High Mass Accuracy/High Performance MS: Instrumentation

High Throughput Analysis/Robotics

Homeland Security

Imaging MS: Disease Markers

Imaging MS: Instrumentation

Imaging MS: Large Molecules

Imaging MS: Method Development

Imaging MS: Pharmaceutical Applications

Imaging MS: Quantitative Analysis

Imaging MS: Small Molecules

Imaging MS: Software

Immunology

Informatics: Crosslinking and Structure Analysis

Informatics: General

Informatics: Intact Proteins

Informatics: Pathway Analysis

Informatics: Peptide Identification and Characterization

Informatics: Post-Translational Modifications

Informatics: Profile Analysis

Informatics: Quantification/Validation

Informatics: Small Molecule Identification and Characterization

Informatics: Systems Biology

Informatics: Workflow and Data Management

Instrumentation: General

Instrumentation: New Concepts

Instrumentation: New Developments in Ionization and Sampling

Instrumentation: New Developments in Mass Analyzers

Intact Proteins: Non-covalent Interactions

Intact Proteins: PTM Discovery

Intact Proteins: Quantitative Analysis

Intact Proteins: Sequence Analysis

Ion Activation/Dissociation

Ion Mobility: Applications

Ion Mobility: Fundamentals

Ion Spectroscopy

Ion Structure/Energetics

Ion/Molecule, Ion/Ion, Ion/Electron Interactions

Ionization Mechanisms

Isotope Ratio MS

LC-MS: Chromatography

LC-MS: Instrumentation

LC-MS: Sample Preparation

LC-MS: Software

Lipids: General

Lipids: Identification and Structural Analysis

(ASMS 2012 Poster Session Topics, continued)

Lipids: Profile Analysis
Lipids: Quantitative Analysis
MALDI: Sample Preparation
Metabolomics: General
Metabolomics: Identification of Unknown Metabolites
Metabolomics: Quantitative Analysis
Metabolomics: Sample Preparation
Metabolomics: Untargeted Metabolite Profiling
Metabolomics: Clinical Applications
Microorganisms: Identification and Characterization
Nanomaterials
Natural Products
Nucleic Acids
Peptides: Fragmentation Mechanisms
Peptides: General
Peptides: Ion Activation/Dissociation Strategies
Peptides: PTM Identification
Peptides: Quantitative Analysis
Peptides: Sequence Analysis
Peptidomics
Phosphopeptides: Enrichment Methods
Phosphopeptides: Quantitative Analysis
Phosphopeptides: Sequence Analysis
Plant "omics"
Polymers
Protein Therapeutics: Quantitative Analysis
Protein Therapeutics: Structural Characterization
Proteins: Aggregation
Proteins: Complexes
Proteins: Conformation Analysis
Proteins: Covalent Labeling
Proteins: General
Proteins: Membrane
Proteins: Non-covalent Interactions
Proteins: Phosphoproteins
Proteomics: Clinical Applications
Proteomics: New Approaches
Proteomics: Plasma
Proteomics: Tissue
Small Molecules: Qualitative Analysis
Small Molecules: Quantitative Analysis
Systems Biology
Toxicology
Traditional Chinese Medicine