

MassSpec-Forum Vienna 2017

Lecture Program Thursday, February 16th, 2017

08:45-09:00 **Gunda Köllensperger, Christopher Gerner** University of Vienna, Vienna, Austria
Welcome and Opening

Session I: Proteomics

09:00-09:45 **Bernhard Küster** University of Technology, Munich, Germany
Chemical Proteomics Reveals the Target Space of Clinical Kinase Inhibitors

09:45-10:10 **André C. Müller** Thermo Fisher Scientific, Vienna, Austria
Beyond DDA and SRM: Applying Data Independent Acquisition (DIA) and Parallel Reaction Monitoring (PRM) on Q Exactive Instruments

10:10-10:30 **Michael Przybylski** Steinbeis Centre for Biopolymer Analysis and Biomedical Mass Spectrometry, Rüsselsheim, Germany
New Approaches for Enzyme Replacement Therapy: Mass Spectrometric Characterization of Antibody Epitopes of Immunoreactive Enzymes in Lysosomal Diseases

10:30-10:50 **M. Marchetti-Deschmann** Vienna University of Technology, Vienna, Austria
High Mass and Spatial Resolution Imaging MS to Characterize Colon Structures and Immune Cell Infiltrates on the Protein Level

10:50-11:30 **Coffee Break and Company Exhibition (Second Floor)**

Session 2: MS Imaging

11:30-12:15 **Malcolm R Clench** Sheffield Hallam University, Sheffield, United Kingdom
Mass Spectrometry Imaging of 3D Living Skin Equivalent Models and Tumour Spheroids

12:15-12:40 **Ann-Christin Niehoff** Shimadzu, Europe GmbH, Duisburg, Germany
Mass Spectrometry Imaging of Human Brain Tumors Resected by Fluorescence-Guided Surgery

12:40-13:00 **Matthias Holzlechner** Vienna University of Technology, Vienna, Austria
Visualizing Fungal Metabolites during Mycoparasitic Interaction by MALDI MSI

13:00-14:00 **Lunch Break and Company Exhibition (Second Floor)**

Session 3: Metabolomics and Lipidomics

14:00-14:45 **Michael Grössl** University Hospital Bern, Bern, Switzerland
Modern Approaches for the Detection of Isomers in Clinical and Biological Samples

14:45-15:10 **Holger Stalz** Agilent Technologies, Basel, Switzerland
Extend Your Metabolomics Insight by Stable Isotope Label Tracing

15:10-15:30 **Michael Urban** University of Natural Resources and Life Sciences, Vienna, Austria
Comparing d-SPE Sorbents of the QuEChERS Extraction Method and EMR-Lipid for the Determination of Polycyclic Aromatic Hydrocarbons (PAH4) in Food of Animal and Plant Origin

Session 4: Structural Elucidation Strategies

15:30-15:50 **Alexander Triebel** Medical University Graz, Graz, Austria
Deciphering Lipid Structures Based on Platform-Independent Decision Rule Sets

15:50-16:30 **Coffee Break and Company Exhibition (Second Floor)**

16:30-16:55 **Arnd Ingendoh** Bruker Daltonics, Bremen, Germany
A Novel Approach to Ion Mobility Spectrometry: TIMS

16:55-17:15 **Anikó Kilár** University of Pécs, Hungary
Novel Structure Elucidation Strategy of Bacterial Endotoxins Applying HPLC-MS/MS

17:15-17:40 **Matthew Kennedy** Waters Corporation, Wilmslow, UK
Enhancing MS Capabilities and Performance with Novel Ionisation Techniques

17:40 **Posters & Drinks**

19:00 **Informal Get Together/Dinner (Ground Floor)**

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Lecture Program Friday, February 17th, 2017

Session 5: Chromatography and MS Hyphenation

- 09:00-09:45 **Michal Holcapek** University of Pardubice, Pardubice, Czech Republic
Ultrahigh-Performance Supercritical Fluid Chromatography-Mass Spectrometry (UHPSFC/MS): Novel Approach for High-Throughput and High-Efficient Bioanalyses
- 09:45-10:10 **Christian Baumann** AWS Biologics, Sciex Germany
Introducing the Brand New Sciex X-Series QTOF Systems
- 10:10-10:30 **Wolfgang Stöggli** University of Innsbruck, Innsbruck, Austria
Analysis of Distinct Metabolic Transitions during Seed Germination and Seedling Establishment in Brassica oleracea by GC-MS and LC-MS
- 10:30-10:50 **Djuro Josic** University of Rijeka, Rijeka, Croatia
Diverse Chromatographic Behaviour of Glycosylated Invertases from S. cerevisiae. Whom to Blame, Proteins or Glycans?

10:50-11:30 Coffee Break and Company Exhibition (Second Floor)

11:30-11:45 **Laudatio Erich Schmid**

Session 6: Advances in MS of Carbohydrates

- 11:45-12:05 **Clemens Grünwald-Gruber** University of Natural Resources and Life Sciences, Vienna, Austria
Determination of True Ratios of Different N-Glycan Structures in Electrospray Ionization-Mass Spectrometry
- 12:05-12:25 **Alina D. Zamfir** National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania
Novel Developments in High Performance Electrospray Ionization Mass Spectrometry of Glycosaminoglycans
- 12:25-12:45 **Ernst Pittenauer** Vienna University of Technology, Vienna, Austria
Structurally Diagnostic Cross-Ring Cleavages of Sodiated Oligosaccharide Precursor Ions: Low- Versus High-Energy CID

12:45-14:00 Lunch Break and Company Exhibition (Second Floor)

Session 7: Novel Tools for Bioanalytical Research

- 14:00-14:45 **Dmitry R. Bandura** Fluidigm Canada, Markham, Ontario, Canada
Recent Advances in Multiparameter Imaging Mass Cytometry
- 14:45-15:10 **Andreas Wiesner** Advion Ltd., Harlow, UK
A Multi-Purpose Mass Detector for the Analysis of Dissolved, Solid, Air Sensitive, Volatile, TLC- as well as LC-separated compounds
- 15:10- 15:30 **Michael Sulyok** University of Natural Resources and Life Sciences, Vienna, Austria
LC-MS/MS Based "Dilute and Shoot" Approaches for Multi-Mycotoxin Analysis – Are Matrix Effects Under Control?
- 15:30-15:50 **Gerrit Hermann** University of Vienna, Vienna, Austria
Absolute Quantification of Amino Acids in Human Plasma Exploiting ¹³C-Labeled Yeast Extracts as Source for Metabolites

15:50-16:30 Poster Award & Closing Remarks