

32nd MassSpec-Forum Vienna

Program Day 1 (Tuesday)

- 08:45-09:00 **Gunda Köllensperger, Christopher Gerner** University of Vienna
Welcome and Opening
- Session 1: Elemental Analysis**
- 09:00-09:35 **Karin Hain** University of Vienna
T1 *Production and Characterisation of an isotopic spike for the analysis of environmental ²³⁷Np by (A)MS*
- 09:35-10:10 **Johanna Irrgeher** Montanuniversität Leoben
T2 *Expanding the isotopic toolbox in support of the sustainable development goals*
- 10:10-10:30 **Andreas Limbeck** TU Wien
T3 *Analysis of trace elements in microplastics – release and uptake during environmental degradation*
- 10:30-10:45 **Anna Schöberl** University of Vienna
T4 *The Uptake of Metal-Based Anticancer Drugs in Macrophage Subtypes at the Single-Cell Level by LA-ICP-TOFMS Imaging*
- 10:45-11:25 Coffee Break and Company Exhibition (Second Floor)
- Session 2: Metabolomics I**
- 11:25-11:45 **André Müller** Thermo Fisher
T5 *Technological and Applicational Advances on the Orbitrap™ IQ-X™ Tribid™ Mass Spectrometer [...]*
- 11:45-12:00 **Anya Sherman** University of Vienna
T6 *Orbitrap Mass Spectrometry to Elucidate Plant Uptake and Metabolism of Tire Leachate Compounds*
- 12:00-12:15 **Samuele Zoratto** TU Wien
T7 *A systematic study of lipids – from ESI analysis to MALDI Imaging using a 7T FT-ICR instrument*
- 12:15-12:30 **Sarah Fleissner** TU Wien
T8 *Characterization of selected organometallic compounds monitored for catalytic activity*
- 12:30-13:30 Lunch Break and Company Exhibition (Second Floor)
- Session 3: Lipidomics**
- 13:30-14:05 **Dominik Schwudke** Forschungszentrum Borstel
T9 *Tuberculostearic acid (TSA)-containing phosphatidylinositols as molecular tool to study Tuberculosis*
- 14:05-14:25 **Michael Rothaupt** Agilent
T10 *GC-MS using hydrogen as carrier gas*
- 14:25-14:45 **Robert Ahrends** University of Vienna
T11 *Probing the Membrane Landscape and Identifying Key Lipids Critical for Platelet Activation by Lipidomics*
- 14:45-15:00 **Ernst Pittenauer** TU Wien
T12 *High-energy CID of diether phospholipids: parallels to diester phospholipids and undescribed new fragmentation pathways*
- 15:00-15:40 Coffee Break and Company Exhibition (Second Floor)
- Session 4: Honory Session for Günter Allmaier**
- 15:40-16:15 **Roman Zubarev** Karolinska Institutet Stockholm
T13 *From Plasma Desorption to blood plasma analysis - a personal proteomics journey*
- 16:15-16:50 **Karoly Vekey** Research Centre for Natural Sciences, Hungarian Academy of Sciences
T14 *Importance of CID energy dependence*
- 16:50-17:25 **Jasna Peter-Katalinic** Westfälische Wilhelms-Universität Münster
T15 *Guenter Allmaier: Contributions to molecular characterization of glycoconjugates by mass spectrometry*
- 17:25-17:45 **Marcella Frauscher** AC2T research GmbH
T16 *How mass spectrometry leads to better performance of lubricants and fuels*
- 17:45 Poster Session
- 19:00 Informal Get Together/Dinner

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Program Day 2 (Wednesday)

Session 5: Metabolomics II

- 09:00-09:35 **Noé Karl Brasier** ETH Zürich, University Hospital Basel
T17 *Translating clinical sweat analysis – A promising outlook with remaining challenges*
- 09:35-09:55 **Marcel Kwiatkowski** University of Innsbruck
T18 *Combined Metabolic and chemical (cometchem) labeling - a strategy to quantify site-specific reaction rates [...]*
- 09:55-10:15 **J. Thomas Hannich** CeMM Research Center for Molecular Medicine of the ÖAW
T19 *Targeted Metabolomics Pipeline to Deorphanize Solute Carrier Transporters (SLCs)*
- 10:15-10:55 Coffee Break and Company Exhibition (Second Floor)

Session 6: MS Fundamentals

- 10:55-11:30 **Gérard Hopfgartner** Université de Genève
T20 *Separations Sciences coupled to Mass Spectrometry: Where are we and where could we go?*
- 11:30-11:50 **Dev Sriranganadane** Waters
T21 *Cyclic IMS, a new tool for R&D*
- 11:50-12:10 **Younes Valadbeigi** University of Natural Resources and Life Sciences
T22 *Ionization Mechanism in an Atmospheric Pressure Chemical Ionization Ion Source*
- 12:10-12:30 **Dietmar Hammerschmid** King's College London
T23 *Targeting protein dynamics in membranes: Novel avenues for hydrogen/deuterium exchange mass spectrometry*
- 12:30-13:30 Lunch Break and Company Exhibition (Second Floor)

Session 7: Data Interpretation

- 13:30-14:05 **Tomáš Pluskal** IOCB Prague
T24 *MZmine 3 - a tool from and for the mass spectrometry community*
- 14:05-14:25 **Jan Bucek** Plasmion
T25 *SICRIT®- New Dimensions in Mass Spectrometry*
- 14:25-14:45 **Samuel Meier-Menches** University of Vienna
T26 *Causal inference to deconvolute metabolomics data from human plasma*
- 14:45-15:00 **Mathias Gotsmy** University of Vienna
T27 *Probabilistic quotient's work & pharmacokinetics' contribution: countering size effect in metabolic time series measurements*
- 15:00-15:40 Coffee Break and Company Exhibition (Second Floor)

Session 8: Proteomics

- 15:40-16:15 **Manuel Matzinger** IMP - Research Institute of Molecular Pathology
T28 *Reproducible, sensitive and automated one-pot sample preparation for high throughput single cell proteomics*
- 16:15-16:35 **Christoph Krisp** Bruker Daltonics
T29 *Diversifying the proteomics toolbox [...]*
- 16:35-16:55 **Djuro Josić** Brown University Providence RI, USA University of Pula
T30 *Changes in the proteome of extracellular vesicles shed by rat liver after sub-toxic exposure to acetaminophen*
- 16:55-17:15 **Michael Przybylski** AffyMSLifeChem Centre for Biochemistry & Biomedical Mass Spectrometry
T31 *Molecular determination of survival motor neuron protein (SMN) in Spinal Muscular Atrophy by affinity- mass spectrometry*
- 17:15 Awards & Closing Remarks