Scientific Program

International Summit on

Current Trends in Mass Spectrometry

July 13-15, 2015 New Orleans, USA



OMICS International Conferences
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Day 1 July 13, 2015

08:00-09:00 Registrations

Harry Lee B

OMICS International conferenceseries.com **08:30-08:55** **Opening Ceremony**

Keynote Forum

08:55-09:00 **Introduction**

09:00-09:25 **Marek M Kowalczuk**
University of Wolverhampton, UK

09:25-09:50 **Roger Webb**
University of Surrey, UK

Track 4: Applications of Mass Spectrometry

Session Chair: Marek M Kowalczuk, University of Wolverhampton, UK
Session Co-chair: Miral Dizdaroglu, National Institute of Standards and Technology, USA

Session Introduction

09:50-10:10 **Application of metabolomics and kinetic flux profiling to understand the metabolic function of aquatic microbial consortia**
Shawn R Campagna, University of Tennessee, USA

10:10-10:30 **Identification of alcohol binding residues in brain proteins using electrospray ionization mass spectrometry**
Joydip Das, University of Houston, USA

Networking & Refreshments 10:30-10:45 @ Foyer

10:45-11:05 **Mass spectrometry for forensic engineering of advanced polymer materials**
Marek M Kowalczuk, University of Wolverhampton, UK

11:05-11:25 **Measurement of DNA repair proteins in human tissues by liquid chromatography-tandem mass spectrometry with isotope-dilution**
Miral Dizdaroglu, National Institute of Standards and Technology, USA

11:25-11:45 **Utility of Mass Spectrometry in Drug Metabolism and Pharmacokinetics (DMPK): Discovery of Small Molecule Drugs**
Mehran F Moghaddam, Celgene Corporation, USA

11:45-12:05 **Measurement of oxidatively modified DNA bases and nucleosides by isotope-dilution mass spectrometry**
Pawel Jaruga, National Institute of Standards and Technology, USA

12:05-12:25 **Mass spectrometric methods to support vitamin A policies in Africa**
Sherry A Tanumihardjo, University of Wisconsin, USA

12:25-12:45 **Mass spectrometry in veterinary drug residue analysis**
Fernando Ramos, University of Coimbra, Portugal

Lunch Break 12:45-13:45 @ Restaurant

Symposium

13:45-14:15 **Laboratory testing for pain management**
Shie wang, Cleveland Clinic, USA

14:15-14:35 **The use of ion-mobility spectrometry-mass spectrometry to elucidate polymer architecture**
Scott M Grayson, Tulane University, USA

14:35-14:55 **Affinity Purification Mass Spectrometry (AP-MS)**
Steven J Bark, University of Houston, USA

14:55-15:15 **Determination of polycyclic aromatic hydrocarbons in sediments of rain drainage channels in urban zone (Pelotas - RS, Brazil)**
Pedro J Sanches Filho, Instituto Federal Sul-rio-grandense, Brazil

Networking & Refreshments 15:15-15:30 @ Foyer

Track 1: Fundamentals of Mass Spectrometry

Session Chair: Roger Webb, University of Surrey, UK
Session Co-chair: Christiane Auray-Blais, Université de Sherbrooke, Canada

Session Introduction

15:30-15:50 **Ménage-à-Trois: Single-atom Catalysis, Mass Spectrometry, and Computational Chemistry**
Helmut Schwarz, Technische Universität Berlin, Germany

15:50-16:10 **Mass spectrometry approaches for translational research: From biomarker discovery to clinical applications**
Christiane Auray-Blais, Université de Sherbrooke, Canada

16:10-16:30	**Multidimensional mass spectrometry methods for synthetic polymer analysis** **Chrys Wesdemiotis,** University of Akron, USA
16:30-16:50	**Ambient pressure molecular concentration mapping at surfaces using mev-secondary ion mass spectrometry (mev sims)** **Roger Webb,** University of Surrey, UK
16:50-17:10	**Sample preparation for mass spectrometry** **Sermin Tetik,** University of Marmara, Turkey

Panel Discussion

Day 2 July 14, 2015

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Keynote Forum

09:00-09:25	**Eduard Rogatsky** Albert Einstein College of Medicine, USA
09:25-09:50	**Michal Dadlaz** University of Warsaw, Poland

Track 5: New Approaches in Mass Spectrometry

Session Chair: Eduard Rogatsky, Albert Einstein College of Medicine, USA
Session Co-chair: Hans-Arno Synal, Swiss Federal Institute of Technology, Switzerland

Session Introduction

09:50-10:10	**Liquid chromatography- multi stage high resolution mass spectrometry to identify new anticoagulant major degradation pathways** **Bernard Do,** Université Paris-Saclay, France
10:10-10:30	**Latest developments in accelerator mass spectrometry** **Hans-Arno Synal,** Swiss Federal Institute of Technology, Switzerland
10:30-10:50	**Quantitative analysis of the mitochondrial proteome and phosphoproteome in the yeast Saccharomyces cerevisiae** **Lemaire Claire,** Université Paris-Sud, France
10:50-11:10	**Miniaturized solid phase extraction of flavanones from citrus fruits by ultrahigh-performance liquid chromatography coupled with quadrupole time-of-flight tandem mass spectrometry** **Jun Cao,** Hangzhou Normal University, China

Networking & Refreshments 11:10-11:25 @ Foyer

11:25-11:45	**The effects of dietary unsaturated fatty acids on prostate cancer – A proteomic approach** **Mu Wang,** Indiana University, USA
11:45-12:05	**Determination of the specialty status of different types of coffees by proton transfer reaction-mass spectrometry** **Yannick Weesepoel,** Institute of Food Safety, The Netherlands
12:05-12:25	**Ion mobility separation coupled with ms reveals alternative structural forms of alzheimer's disease a peptide** **Michal Dadlaz,** University of Warsaw, Poland
12:25-12:45	**High-resolution MCsn+ - SIMS: An innovative mass spectrometric technique for compositional analysis of quantum structures without 'standards'** **Purushottam Chakraborty,** Saha Institute of Nuclear Physics, India
12:45-13:05	**Untargeted direct mass spectrometry for obtaining base-line fingerprints of authentic herbs and spices** **Isabelle Silvis,** Institute of Food Safety, The Netherlands

Lunch Break 13:05-14:05 @ Restaurant

Track 2: Mass Spectrometry Configurations and Techniques

Session Chair: Paul G Wenthold, Purdue University, USA
Session Co-chair: Friso H W Van Amerom, SRI International, USA

Session Introduction

14:05-14:25	**Intact-cell mass spectrometry for mammalian cell identification and authentication** **Petr Vaňhara,** Masaryk University, Czech Republic
14:25-14:45	**Mass spectrometric investigation of the decomposition of canonical structures of α-amino acids** **Paul G Wenthold,** Purdue University, USA
14:45-15:05	**Effect of intake of butter with different level of medium chain fatty acids and different types of milk proteins on the observed metabolites in human biofluids - Assessed by an untargeted metabolomics approach using LC and GCQ-ToF** **Trine K Dalsgaard,** Aarhus University, Denmark
15:05-15:25	**Deep discovery of biomarkers in proximal fluid of liver cancer patient-derived-xenograft models** **Hon-chiu Eastwood Leung,** Baylor College of Medicine, USA

Networking & Refreshments 15:25-15:40 @ Foyer

15:40-16:00	**Quantitation of 14C-GDC-0032 (14C-taselisib) in human plasma by UPLC-accelerator mass spectrometry for the determination of absolute bioavailability of GDC-0032 in human** **Xiao Ding,** Department of Drug Metabolism and Pharmacokinetics in Genentech, USA
16:00-16:20	**Experimental evaluation of micro-ion trap mass spectrometer geometries** **Friso H W Van Amerom,** SRI International, USA
16:20-16:40	**Overview of Mass Spectrometry** **Sermin Tetik,** University of Marmara, Turkey
16:40-17:00	**History of mass measurements with time-of-flight mass analyzers** **Hermann Wollnik,** New Mexico State University, USA
17:00-17:20	**Determination of additives, contaminants and byproducts in insulating liquids with desorption electrospary mass spectrometry** **Shubhen Kapila,** Missouri University of Science and Technology, USA
17:20-17:40	**Oxidation of benzylalcohols in presence of Ni/Bi2WO6 nanoparticles synthesized by simple hydrothermal method** **Rahmatollah Rahimi,** Iran University of Science and Technology, Iran

Poster Presentations 15:00 - 16:00 @ Foyer

Day 3 July 15, 2015

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Track 3: Ionization Techniques
Track 8: Mass spectrometry Imaging

Session Chair: Huan-Tsung Chang, National Taiwan University, Taiwan
Session Co-chair: Wenjie F Cao, SABIC Technology Center, Saudi Arabia

Session Introduction

10:00-10:20	**Analyzing the thermal- and thermo-oxidative degradation of polymers by a combination of thermal solid-phase extraction and thermal desorption (TED-GC-MS)** **Erik Duemichen,** BAM Federal Institute of Material Research and Testing, Germany
10:20-10:40	**Gas-phase fragmentation chemistry of protonated ions: Models, structures, energetics and dynamics** **Benjamin J Bythell,** University of Missouri-St. Louis, USA
10:40-11:00	**Peptide hormones: The sensitivity quest and sensitivity questions** **Eduard Rogatsky,** Albert Einstein College of Medicine, USA

Networking & Refreshments 11:00-11:15 @ Foyer

11:15-11:35	**Analysis of biomolecules through nanomaterials based mass spectrometry** **Huan-Tsung Chang,** National Taiwan University, Taiwan
11:35-11:55	**Complications of adduct ions on mrm at different lc-ms/ms ionization techniques** **Wenjie Cao,** SABIC Technology Center, Saudi Arabia
11:55-12:15	**Simple and efficient oxidation of thiols to disulfides using SnO_2 nanostructures** **Rahmatollah Rahimi,** Iran University of Science and Technology, Iran
12:15-12:35	**Mass spectrometry imaging and localized omics studies** **Olivier Laprévote,** Paris Descartes University, France

Lunch Break 12:35-13:35 @ Restaurant

13:35-13:55	**Highly selective oxidation of benzyl alcohol to benzaldehyde catalyzed by Zn-Fe_2O_4@ZnO core-shell nanostructures** **Rahmatollah Rahimi,** Iran University of Science and Technology, Iran
13:55-14:15	**On the role of quasi-free electrons in photoionization of atomic and molecular clusters using nanosecond laser pulses** **Rajesh K Vatsa,** Bhabha Atomic Research Centre, India
14:15-14:35	**Oxidation of benzyl alcohols in presence of sulfur/graphene** **Rahmatollah Rahimi,** Iran University of Science and Technology, Iran

Panel Discussion

Award Ceremony

Bookmark your dates

2nd International Conference on

Current Trends in Mass Spectrometry

May 09-11, 2016 Chicago, USA

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