

Scientific Program

2nd International Conference on

Current Trends in Mass Spectrometry

July 20-22, 2016 Chicago, USA

Hosting Organization: Conference Series LLC

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Scientific Program

Day 1 July 20, 2016

08:00 - 09:00 Registrations

Vienna

conferenceseries.com 08:30 - 08:55 Opening Ceremony

Keynote Forum

08:55 - 09:00 Introduction

09:00 - 09:30 Title: New vistas in multisatge mass spectrometry for analysis of biodegradable polymers
Marek M. Kowalcuk, University of Wolverhampton, UK

09:30 - 10:00 Title: 25 Hydroxy vitamin D quantitative analysis by LC/MS – assay standardization
Eduard Rogatsky, Wadsworth Center, USA

10:00 - 10:30 Title: Heterocyclic aromatic amines and their contribution to the bacterial mutagenicity of the particulate phase of cigarette smoke
Regina Stabbert, Philip Morris International R&D, Switzerland

Networking and Refreshments @ Foyer 10:30 - 10:50

Sessions:

- Applications of Mass Spectrometry
- New Approaches in Mass Spectrometry
- Recent Advances and Development in Mass Spectrometry

Session Introduction

Session Chair: Claudia S. Maier, Oregon State University, USA

Session Co-Chair: Zhenhua GONG, Shanghai Jiaotong University, China

10:50 - 11:10 Title: How to make MS data work best for biological research
Iulia M. Lazar, Virginia Tech, Biological Sciences, USA

Title: Quantification of temozolomide in nonhuman primate fluids by Isocratic Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry to study brain tissue penetration following intranasal or intravenous delivery

Cody J. Peer, National Institutes of Health, USA

11:30 - 11:50 Title: Quantification of bilirubin on dry blood spot by tandem mass spectrometry
Zhenhua GONG, Shanghai Jiaotong University, China

11:50 - 12:10 Title: High frequency nano-optomechanical disk resonators in liquids
Eduardo Gil-Santos, Université Paris Diderot, France

Title: Coupling of micro-Electrochemical Reaction Cell to Electrospray MS (EC-ESI MS) for investigation of redox reaction products of cytotoxic metallocomplexes
Katarzyna Pawlak, Warsaw University of Technology, Poland

Title: Tandem mass spectrometry for the characterization of peptide adducts of electrophilic lipoxidation products
Claudia S. Maier, Oregon State University, USA

Lunch Break @ Athens 12:50 - 13:50

Sessions:

- Applications of Mass Spectrometry
- Recent Advances and Development in Mass Spectrometry
- Fundamentals of Mass Spectrometry

Session Introduction

Session Chair: Miral Dizdaroglu, National Institute of Standards and Technology, USA

Session Co-Chair: Jianjun Liu, Shenzhen Center for Disease Control and Prevention, China

13:50 - 14:10 Title: Adjustable combinatory ionization guns for multiple tasks of analytical MS
Yi Chen, Chinese Academy of Sciences, China

Title: Application of mass spectrometry in the discovery of small molecule inhibitors of DNA repair proteins as potential anticancer drugs

Miral Dizdaroglu, National Institute of Standards and Technology, USA

14:30 - 14:50 Title: Determination of mycotoxin contamination in traditional chinese medicines by LC-MS-MS
Hui Xu, Guangzhou University of Chinese Medicine, China

Title: Proteomic study of SET-mediated abnormal protein phosphorylation and histon modification in trichloroethylene-induced hepatic cytotoxicity

Jianjun Liu, Shenzhen Center for Disease Control and Prevention, China

15:10 - 15:30	Title: Assessment of BPA levels in urine by HPLC MS Youssef Mouneimne, American University of Beirut, Lebanon
15:30 - 15:50	Title: Magnetic derived perhydroxy-cucurbit[8]uril nanoparticles for solid-phase extraction to ultrasensitive determination of cytokinins in plant samples by UPLC-MS/MS Gongke Li, Sun Yat-sen University, China

Networking and Refreshments @ Foyer 15:50- 16:10

Sessions:

- Applications of Mass Spectrometry
- Recent Advances and Development in Mass Spectrometry
- Ionization Techniques

Session Introduction

Session Chair: Sherry A. Tanumihardjo, University of Wisconsin, USA

Session Co-Chair: Hui-Fen Wu, National Sun Yat-Sen University, Taiwan

Title: Development of liquid chromatography-tandem mass spectrometry methods for the quantitation of

16:10 - 16:30 anisakis simplex proteins in fish

Christiane Kruse Fæste, Norwegian Veterinary Institute, Norway

Title: Photo-reactivity assessment of perfusion drugs combining quantum chemical approach and

16:30 - 16:50 experimental studies.

Bernard Do, University of Paris-Sud, France

16:50 - 17:10 Title: Nanomaterial based mass spectrometry applied on pathogens, cancer study and single cell detection

Hui-Fen Wu, National Sun Yat-Sen University, Taiwan

Title: Study on free fatty acids metabolome using 2D nano LC-NSI-Q-TOF/MS, application to polycystic

17:10 - 17:30 ovarian syndrome in women

Guo-An Luo, Macau University of Science and Technology, China

Title: Natural abundance of 13C in serum retinol differentiates between dietary intake of C3 versus C4

17:30 - 17:50 plants

Sherry A. Tanumihardjo, University of Wisconsin, USA

17:50 - 18:10 Title: Gas phase fragmentation mechanisms of protonated testosterone as revealed by chemical dynamics simulations

Kihyung Song, Korea National University of Education, Republic of Korea

Workshop

18:10 - 18:30 Title: GC/MS fundamentals for operators

Matthew S. Klee, VP Market Development Dani Instruments, Inc. USA

Panel Discussion

Day 2 July 21, 2016

Vienna

Keynote Forum

09:00 - 09:30	Title: Euv laser mass spectrometry and photoelectron spectroscopy of mass selected neutral clusters and molecules Elliot R. Bernstein, Colorado State University, USA
09:30 - 10:00	Title: Quantitation of lipids in high throughput; the shotgun lipidomics profiling of NAFLD and steatohepatitis by ion mobility-MS data acquisition techniques Brigitte Simons, SCIEX, Canada
10:00 - 10:30	Title: Similarity of hierarchical structured clustering in human and neuronal interactions and on DNA: Structural and functional analogies Magnus S. Magnusson, University of Iceland, Iceland

Networking and Refreshments @ Foyer 10:30 - 10:50

Sessions:

- Applications of Mass Spectrometry
- New Approaches in Mass Spectrometry
- Mass spectrometry Imaging
- Ionization Techniques

Session Introduction

Session Chair: Elliot R Bernstein, Colorado State University, USA

Session Co-Chair: Ioana Nuta, Univ. Grenoble Alpes, SIMAP, France

Title: Development of laser ionization methods and its application in the investigation of chemical vapor deposition chemistry

Yujun Shi, University of Calgary, Canada

11:10 - 11:30 Title: Mass spectrometry imaging in flies, cells, and vesicles

Andrew Ewing, University of Gothenburg, Sweden

11:30 - 11:50	Title: Identification of lipid biomarkers of atopic skin by normal phase chromatography/high resolution mass spectrometry Libong Danielle, Paris South University, France
11:50 - 12:10	Title: Mass spectrometry with Knudsen cell applied to the investigation of organometallic precursors vapors Ioana NUTA, Univ. Grenoble Alpes, SIMAP, France
12:10 - 12:30	Title: Ultra-trace level speciated isotope dilution measurement of Cr(VI) using ion chromatography tandem mass spectrometry in environmental waters Stefanie Maedler, Ontario Ministry of the Environment and Climate Change, Canada
12:30 - 12:50	Title: Lipid imaging of invertebrate model systems by secondary ion mass spectrometry Nhu Phan, University of Gothenburg, Sweden

Lunch Break @ Athens 12:50 - 13:50

Sessions:	Session Introduction
<ul style="list-style-type: none"> • Applications of Mass Spectrometry • Recent Advances and Development in Mass Spectrometry • Mass Spectrometry Configurations and Techniques • NMR Spectroscopy and NMR in biomedicine 	

Session Chair: Lianming Wu, GlaxoSmithKline, USA	Session Introduction
Session Co-Chair: Medicharla V. Jagannadham, CSIR-Centre for Cellular and Molecular Biology, India	

13:50 - 14:10	Title: High-throughput metabolic stability assays using rapid fire and accurate-mass spectrometry Paul Lee, Discovery Technologies, Amgen Inc., USA
14:10 - 14:30	Title: Ambient mass Spectrometry: New directions in pharmaceutical analysis Lianming Wu, GlaxoSmithKline, USA
14:30 - 14:50	Title: PDAS-MSD- LC MS- Prescriptive drug analysis study in rat plasma for multiple sclerosis disease by LC-ESI/MS Suneetha Achanti, Hindu College of Pharmacy, India
14:50 - 15:10	Title: Mass spectrometry technology for biomarker discovery Sermin Tetik, University of Marmara, Turkey
15:10 - 15:30	Title: Improving reproducibility and resolution in Imaging Mass Spectrometry (IMS) through the application of low cost manual sample preparation techniques Matthew B. O'Rourke, University of Technology Sydney, Australia
15:30 - 15:50	Title: Chemical modification of peptides followed by mass spectrometry: Implications in proteomics Medicharla V. Jagannadham, CSIR-Centre for Cellular and Molecular Biology, India
15:50 - 16:10	Title: Snake venomics and antivenomics of the nose-horned viper, <i>vipera ammodytes ammodytes</i> Adrijana Leonardi, Jozef Stefan Institute and biomedical sciences, Slovenia

Networking and Refreshments @ Foyer 16:10 - 16:30

Workshop

16:30 - 16:50	Title: Charge-site location and structure elucidation of gaseous ions Athula B. Attygalle, Center for Mass Spectrometry, Stevens Institute of Technology, USA
Poster Presentations @ Athens 16:50 - 17:5	

MS001	Title: Introduction of liquid samples into high-vacuum plasma ion source for low-cost quantification of inorganic elements Tatsuya Urabe, Nishina center for Accelerator-Based Science, Japan
MS002	Title: Development and validation of bioanalytical method for estimation of methoxsalen in human plasma Sejal K. Patel, Ganpat University, India
MS003	Title: Short term exposure to some airborne trace elements and its potential cancer risk Heba M Adly, Umm Al-Qura University, Saudi Arabia
MS004	Title: Secondary metabolites from soft coral <i>sarcophyton trocheliophorum</i> and <i>sinularia sp</i> Chang-Yih Duh, National Sun Yat-sen University, Taiwan
MS005	Title: Further insights on the carotenoid profile of <i>tagetes patula</i> flowers Daniele B. Rodrigues, University of Campinas, Brazil
MS006	Title: Determination of mycotoxin contamination in traditional chinese medicines by LC-MS-MS Ruoting Zhan, Guangzhou University of Chinese Medicine, China

MS007

Title: UPLC-Q-TOF/MS-based screening and identification of the main alkaloids and their metabolites in rat plasma, urine and feces after oral administration of *Zanthoxylum nitidum* decoction

Weiwen Chen, Guangzhou University of Chinese Medicine, China

Day 3 July 22, 2016

Vienna

Sessions:

- Applications of Mass Spectrometry
- Advances in Sample Preparation Techniques
- Advances in Chromatography

Session Introduction

Session Chair: Sam F.Y. Li, National University of Singapore, Singapore

Session Co-Chair: Kalluru Seshaiyah, Sri Venkateswara University, India

Title: A rugged bio-analytical method for determination of hydralazine in human plasma using gas chromatography coupled with tandem mass spectrometry

10:00 - 10:20 Kalluru Seshaiyah, Sri Venkateswara University, India

Title: NMR and MS-based metabolomics of *microcystis* spp. unravel the involvement of microcystin in thylakoid membrane stabilization and photoinhibition resistance

10:20 - 10:50 Sam F.Y. Li, National University of Singapore, Singapore

Networking and Refreshments @ Foyer 10:50 - 11:10

11:10 - 11:30 Title: Carotenoids and carotenoid esters from fruits: strategies for identification by LC-MS

Lilian Regina Barros Mariutti, University of Campinas, Brazil

11:30 - 11:50 Title: Advancements in mass spectrometry

Lokesh Kumar Gupta, Teva API India Pvt. Limited, India

Title: Comparative assessment of glycosylation of a recombinant human FSH and a highly purified FSH extracted from human urine

11:50 - 12:10 Hong Wang, Shanghai Institute for Food and Drug Control, China

12:10 - 12:30 Title: Mass spectrometry regiospecific analysis of neutral triacylglycerols

Mahmoud A. Saleh, Texas Southern University, USA

Title: An alternative diabetic retinopathy therapy: A laser triggered microsystem for controlled release of Resveratrol

12:30 - 12:50 Oana Teodora Marisca, Babes Bolyai University, Romania

12:50 - 13:10 Title: Application of LC-MSn molecular fingerprinting in the rapid elucidation of drug impurities

Min Li, Huahai Pharmaceutical Co., Ltd, China

Title: Determination of heavy metal contents in Indian foods using ICP-MS after closed vessel microwave digestion

13:10 - 13:30 Sreenivasa RJ, National Institute of Nutrition, India

Lunch Break @ Athens 13:30-14:30

Panel Discussion & Award Ceremony

Bookmark Your Dates

4th International Conference on

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