

5<sup>th</sup> International Conference on

# CURRENT TRENDS IN

# MASS SPECTROMETRY & CHROMATOGRAPHY

September 25-26, 2017 | Atlanta, USA

## Moderator

Thank You for supporting Mass Spectrometry 2017



**Shobini Jayaraman**

Boston University School of Medicine  
USA



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Piedmont II

conference**series.com** 09:30-9:45

# Opening Ceremony

## Keynote Forum

- 09:45-10:25 **Title: The Use of Mass Spectrometry to Study the Human Pituitary: The Future of Neuroendocrinology**  
Dominic M. Desiderio, University of Tennessee Health Science Center, USA
- 10:25-11:05 **Title: The Hope of Greatly Reducing Cancer Fatality is Getting to be Realized**  
Mostafa el Sayed, Georgia Institute of Technology, USA

## Panel Discussion

Group Photo & Networking & Refreshment Break 11:05-11:30 @ Piedmont Prefunction

Sessions: Applications of Mass Spectrometry | Mass Spectrometry in Proteomics | Innovations in Mass Spectrometry | Ionization Techniques

Session Chair: Mostafa el Sayed, Georgia Institute of Technology, USA

Session CO-chair: Luigi Silvestro, 3S-Pharmacological Consultation & Res, Germany

## Session Introduction

- 11:30-12:00 **Title: The assessment of the exposure levels to mycotoxins among dairy cattle in the two South African provinces using HPLC (ESI)-MS/MSn**  
Makhapa Makhafola, Research & Development, Mintek, South Africa
- 12:00-12:30 **Title: Validation of methodologies for the determination of Pesticides and Veterinary drugs in foods of animal origin by HPLC-QqQ/MS and GC-MS**  
Lucia Pareja, Universidad de la República, Uruguay
- 12:30-13:00 **Title: Current Practices and New Developments in Metabolite Identification using LC-MS**  
Shuguang Ma, Genentech Inc, USA
- 13:00-13:30 **Title: Toxicant exposure marker discovery using different mass spectrometry-based metabolomics data processing methods**  
Pao-Chi Liao, National Cheng-Kung University, Taiwan

## Panel Discussion

Lunch Break 13:30-14:20 @ Willow

Sessions: Recent Advances and Development in Mass Spectrometry | Innovations in Mass Spectrometry | Ionization Techniques | Applications of Mass Spectrometry

Session Chair: Magnus Magnusson, University of Iceland, Iceland

Session CO-chair: Pao-Chi Liao, National Cheng-Kung University, Taiwan

- 14:20-14:50 **Title: Chemoproteomic Characterization of Covalent Kinase Inhibitors**  
Jarrod Marto, Dana-Farber Cancer Institute, USA
- 14:50-15:20 **Title: Group-DIA: A software tool for untargeted analysis of multiple data-independent acquisition (DIA) mass spectrometry files**  
Chuan-Qi Zhong, Xiamen University, China

## Panel Discussion

Networking & Refreshment Break 15:20-15:40 @ Piedmont Prefunction

15:40-16:10 **Title: The challenge of identifying tuberculosis proteins in ancient biological samples**  
Kai Y. Teoh, University of York, UK

16:10-16:40 **Title: The method efficiency evaluation study on non-target detection of over 1000 pesticides and chemical contaminants in fruits and vegetables by GC-Q-TOF/MS and LC-Q-TOF/MS**  
Guo-Fang Pang, Chinese Academy of Inspection and Quarantine, China

### Panel Discussion

Day 2 September 26, 2017

### Piedmont II

### Keynote Forum

9:45-10:25 **Title: Mass Spectrometry-Based Novel Chemical and Enzymatic Methods to Globally and Site-Specifically Analyze Glycoproteins**

Rhongu wu, Georgia Institute of Technology, USA

10:25-11:05 **Title: T-patterns from DNA to protein and human mass-societies: self-similarity across billions of years and orders of magnitude**

Magnus Magnusson, University of Iceland, Iceland

### Panel Discussion

Networking & Refreshment Break @ 11:05-11:30 @ Piedmont Prefunction

Sessions: Chromatography and High Performance Liquid Chromatography (HPLC) | Applications of Mass Spectrometry | Mass Spectrometry Configurations and Sample Preparation Techniques | Applications of Chromatography

Session Chair: Rhongu wu, Georgia Institute of Technology, USA

Session Co-chair: Jarrod Marto, Dana-Farber Cancer Institute, USA

### Session Introduction

11:30-12:00 **Title: Development of an Immunoaffinity-HPLC-MS/MS Diagnostic Test for Measuring Exposure to Organophosphate Pesticides using Agarose Beads**  
Jennifer Knaack, Mercer University, USA

12:00-12:30 **Title: Matrix and LC-MS: It is invariably a source of problems or can we get relevant information evaluating its composition in individual samples?**  
Luigi Silvestro, 3S-Pharmacological Consultation & Res, Germany

12:30-13:00 **Title: Root causes of LC/MS data variability**  
Eduard Rogatsky, Albert Einstein College of Medicine, USA

13:00-13:30 **Title: Evaluating and Comparing Antifungal Constituents From Annona senegalensis Methanol Extract Using LC-MS and Fitness Test Techniques**  
Ochieng Anthony, Sumait University, Tanzania

### Panel Discussions

Lunch Break 13:30-14:20 @ Willow

Sessions: Mass Spectrometry in Proteomics | Applications of Mass Spectrometry | Innovations in Mass Spectrometry | Ionization Techniques

Session Chair: Eduard Rogatsky, Albert Einstein College of Medicine, USA

Session Co-chair: Makhapa Makhafola, Research & Development, Mintek, South Africa

14:20-14:50 **Title: Immunomagnetic separation method for diagnosing organophosphate pesticides exposure in humans: A new application**  
Amruta Indapurkar, Mercer University, USA

14:50-15:20 **Title: Development and molecular understanding of plasmonic photothermal therapy in combating cancer**  
Moustafa R K Ali, Georgia Institute of Technology, USA

### Panel Discussion

**Networking & Refreshment Break 15:20-15:40 @ Piedmont Prefunction**

**15:40-16:10** **Title: GC-MS analysis of semiochemicals produced by cowpea plant in response to herbivory attack**  
**Jonathan Osei Owusu**, KNUST-Ghana, West Africa

**16:10-16:40** **Title: Mass Spectrometry for Understanding Bio-Nano Interaction**  
**Yue wu**, Georgia Institute of Technology, USA

**16:40-17:10** **Title: Xylene exposure assessment from tobacco smoke and diet: Analysis of NHANES 2005-2006 and 2011-2012**  
**Daniel Milan**, Mercer University, USA

**Poster Presentations @ 17:10-17:30**

**CTMSC 001** **Title: Nectar metabolomics reveals taxonomic classification of brassica Species**  
**Kirthi Narayanaswami**, W.M. Keck Metabolomics Research Laboratory, USA

**CTMSC 002** **Title: The Role of metabolite identification in lead optimization of fibrodysplasia ossificans progressiva compounds**  
**Elias Padilha**, The National Center for Advancing Translational Sciences, USA

**CTMSC 003** **Title: Mass Spectrometric determination of peptides in Butyrylcholinesterase (BuChE) digests**  
**Jihee Stephanie Yeh**, Mercer University, USA

**CTMSC 004** **Title: Development of a solid phase extraction method for measuring gonyautoxins 1-4 in Human Urine**  
**Mani Deepika Vakkalanka**, Mercer University, USA

**Panel Discussion**

**Award and Closing Ceremony**

