

196<sup>th</sup> OMICS Group Conference

# Scientific Program



## 5<sup>th</sup> International Conference and Exhibition on Analytical & Bioanalytical Techniques

August 18-20, 2014 DoubleTree by Hilton Beijing, China

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### OMICS Group Conferences

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## Ginkgo Tree



09:00-09:25

## Opening Ceremony

## Keynote Forum

09:25-09:30	<b>Introduction</b>
09:30-10:00	<b>Eduard Rogatsky</b> Albert Einstein College of Medicine of Yeshiva University, USA
10:00-10:25	<b>Yuri A Zolotov</b> Lomonosov Moscow State University, Russia
10:25-10:50	<b>Andrew C Benniston</b> Newcastle University, UK
10:50-11:15	<b>Sergei Shtykov</b> Saratov State University, Russia

Coffee Break 11:15-11:30 @ Foyer

Track 1: Novel Approaches to Analytical &amp; Bioanalytical Methods

Track 2: Analytical Methodology

Session Chair: Doo Soo Chung, Seoul National University, Korea

Session Co-Chair: L A Frank, Siberian Branch of the Russian Academy of Sciences, Russia

Session Introduction

11:30-11:50	<b>Chemiluminescent determination of hydrogen peroxide using FellI-TAML activator, a potent peroxidase mimicking enzyme</b> Marina M Vdovenko, Lomonosov Moscow State University, Russia
11:50-12:10	<b>Thin film microextraction of VOCs from biological samples using PDMS/ZSM-5 hybrid adsorbents</b> Seung-Woo Lee, The University of Kitakyushu, Japan
12:10-12:30	<b>Mapping single DNA molecules to the human genome in a nanofluidic device</b> Rodolphe Marie, Technical University of Denmark, Denmark
12:30-12:50	<b>Electrochemical determination of pyrogallol at conducting poly(3,4-ethylenedioxythiophene) film-modified screen-printed carbon electrodes</b> Shu-Hua Cheng, National Chi Nan University, Taiwan
12:50-13:10	<b>Coelenterazine-dependent bioluminescent proteins as effective reporters for <i>in vitro</i> assay</b> L A Frank, Russian Academy of Sciences, Russia

Lunch Break 13:10-14:00 @ Easy Kitchen

14:00-14:20	<b>Liquid extraction surface analysis coupled with capillary electrophoresis to determine organophosphorous pesticides on apple</b> Doo Soo Chung, Seoul National University, Korea
14:20-14:40	<b>Measuring viscosity on the nanoscale using fluorescent molecular rotors</b> Andrew C Benniston, Newcastle University, UK
14:40-15:00	<b>Supramolecular and nanobiomimetic approach to optimization of analytical reactions</b> Sergei Shtykov, Saratov State University, Russia
15:00-15:20	<b>Simultaneous determination of phthalate esters in a microfluidic device coupled with an electrochemical sensor</b> Yoon-Bo Shim, Pusan National University, South Korea
15:20-15:40	<b>Optical Si-based biosensors: First results</b> Sebania Libertino, Istituto per la Microelettronica e Microsistemi (CNR-IMM), Italy
15:40-16:00	<b>Some trends in analytical chemistry development</b> Yuri A Zolotov, Lomonosov Moscow State University, Russia

Coffee Break 16:00-16:15 @ Foyer

16:15-16:35	<b>Development and validation of HPTLC method for simultaneous estimation of olmesartan medoxomil and indapamide in tablet dosage form</b> Celina Nazareth, PES's Rajaram and Tarabai Bandekar College of Pharmacy, India
16:35-16:55	<b>Sampling gaseous compounds of heating essential oil using solid phase microextraction devices</b> Wen-Hsi Cheng, Fooyin University, Taiwan
16:55-17:15	<b>Using of short chain alkyl imidazolium ionic liquids in enhancing the sensitivity of capillary electrophoresis</b> Deia Abd El-Hady, King Abdulaziz University, Saudi Arabia
17:15-17:35	<b>Fluorescence switch for selectively sensing Copper (II) and L-Histidine <i>in vitro</i> and in living cells</b> Gaolin Liang, University of Science and Technology of China, China

17:35-17:55 **An in situ liquid cell TEM study on nanomaterial depositions and nano characterizations**  
Xin Chen, East China University of Science and Technology, China

17:55-18:15 **Design of nanoprobe for in situ analysis of cellular functional biomolecules**  
Huangxian Ju, Nanjing University, P. R. China

18:30-19:30 Cocktails sponsored by **Journal of Analytical & Bioanalytical Techniques @ Garden Terrace**

**Day 2 August 19, 2014**

**Ginkgo Tree**

**Keynote Forum**

09:30-09:55 **Graham Lawson**  
De Montfort University, UK

09:55-10:20 **Huangxian Ju**  
Nanjing University, P. R. China

**Track 3: Bioanalytical Methodology**

**Session Chair: Mitsumasa Iwamoto**, Tokyo Institute of Technology, Japan

**Session Co-Chair: Yuewu Xiao**, Merck Millipore, USA

**Session Introduction**

10:20-10:40 **Utilizing confocal Raman spectroscopy to understand monoclonal antibody purification by a strong cation exchanger**  
Yuewu Xiao, Merck Millipore, USA

10:40-11:00 **Identification of CTP-499 metabolites in human plasma and urine**  
Changfu Cheng, Concert Pharmaceuticals, Inc., USA

**Coffee Break 11:00-11:15 @ Foyer**

11:15-11:35 **A vinblastine fluorescent probe for pregnane X receptor in a time-resolved fluorescence resonance energy transfer assay**  
Wenwei Lin, St. Jude Children's Research Hospital, USA

11:35-11:55 **Multifunctional SERS active silver-hybrid nanocomposites in (bio)analytics**  
Inez M Weidinger, Technical University of Berlin, Berlin

11:55-12:15 **Visualization of carrier motion and dielectric polarization in organic thin layers by Optical second harmonic generation measurement and Maxwell-displacement current measurement**  
Mitsumasa Iwamoto, Tokyo Institute of Technology, Japan

12:15-12:35 **Evaluation of affinity capillary electrophoresis for ligand binding assays**  
Deia Abd El-Hady, King Abdulaziz University, Saudi Arabia

12:35-12:55 **Aptamer-functionalized nanoporous gold for directly electrochemical detection of bisphenol A**  
Ye Zhu, Shandong University, China

12:55-13:15 **Raman Mapping-A powerful analytical tool for detection/quantification of API physical form and its form impurities as presented in solid samples to support R&D, QbD, license application and fighting against counterfeit medicine products and patent infringement**  
Jianping Wu, Pharmaterials, Ltd., UK

13:15-13:35 **Immobilization of DAAO on magnetic nanoparticles modified by reactive polymer for screening enzyme inhibitors with chiral ligand exchange capillary electrophoresis method**  
Li Qi, Chinese Academy of Sciences, China

**Lunch Break 13:35-14:30 @ Easy Kitchen**

**Track 4: Analytical Techniques in Pharmacogenomics**

**Track 5: NMR & Analysis of Small Organic Molecules**

**Track 6: Advances in Chromatography and Mass Spectrometry**

**Session Chair: Karol Jackowski**, University of Warsaw, Poland

**Session Co-Chair: Sangeeta Tanna**, De Montfort University, UK

**Session Introduction**

14:30-14:50 **NMR analysis of chemical compounds in the gas phase**  
Karol Jackowski, University of Warsaw, Poland

14:50-15:10 **Adherence to medication assessed using dried blood spot analysis**  
Sangeeta Tanna, De Montfort University, UK

15:10-15:30 **Spectrofluorimetry: A critical review on factors that influence fluorescent intensity in the analysis of diverse chemical substances**  
Ahmad Uba, Usmanu Danfodiyo University, Nigeria

15:30-15:50 **Determination of phosphatidylserine in milk based nutritional products using online derivatization HPLC**  
Qi Lin, Abbott Nutrition R&D, Singapore

**Coffee Break 15:50-16:05 @ Foyer**

16:05-16:25 **Analysis of small molecules in vivo by MALDI-TOF MS**  
Zongxiu Nie, Chinese Academy of Sciences, China

16:25-16:45 **Extraction and analysis of fatty acids from cyanobacteria using GC x GC-TOFMS**  
Titus A M Msagati, University of Johannesburg, South Africa

16:00-17:30 **Poster Presentations @ Maple Tree**

Track 7: Analytical Techniques in Immuno Chemistry  
 Track 9: Applications of Analytical and Bioanalytical Methods  
 Track 10: Diagnostic Assays and Test Kits  
 Track 11: New Instrumentation and Equipment  
 Track 12: Regulatory Issues and Biosafety Challenges in Bioanalysis

Session Chair: Ming Li, Biogen Idec, USA

Session Co-Chair: Zhenxin Wang, Chinese Academy of Sciences, China

## Session Introduction

- 09:00-09:20 **Novel phenothiazine enhancers in chemiluminescent enzyme immunoassay**  
 Ivan Yu Sakharov, Lomonosov Moscow State University, Russia
- 09:20-09:40 **Automated small molecule bioanalytical sample preparation method development**  
 Ming Li, Biogen Idec, USA
- 09:40-10:00 **Biosensor for detection of organophosphate pesticide residues by screen printed carbon electrode (SPCE)-chitosan base**  
 Ani Mulyasuryani, University of Brawijaya, Indonesia
- 10:00-10:20 **Development of bioanalytical methods for environmental monitoring of toxic chemicals**  
 Yalavarthy Prameela Devi, Kakatiya University, India
- 10:20-10:40 **Simple and fast analyses using GC-FID for detection of a potential genotoxins (isopropyl para-toluenesulfonate) in palm oil based esters a common ingredient used in cosmetic and personal care products**  
 Bonnie Yen Ping Tay, Malaysian Palm Oil Board, Malaysia

## Coffee Break 10:40-10:55 @ Foyer

- 10:55-11:15 **Air quality challenges in Wesselton township, South Africa**  
 Shadung Moja, University of South Africa, South Africa
- 11:15-11:35 **Food analysis to check quality, safety and authenticity by full-automated <sup>1</sup>H-NMR**  
 Lu Shan, Bruker BioSpin GmbH, China
- 11:35-11:55 **Bioanalytical applications of gold nanoparticle probes**  
 Zhenxin Wang, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China
- 11:55-12:15 **A crystalline self-assembly from nanorods: Superparticles**  
 Tie Wang, Chinese Academy of Sciences, China
- 12:15-12:35 **The fate and transformation of pharmaceuticals in wetland mesocosms planted with *Scirpus validus***  
 Dongqing Zhang, Nanyang Technological University, Singapore
- 12:35-12:55 **Selection of phage displayed peptides for the detection of insecticide imidacloprid in soil and water**  
 Ting Xu, China Agricultural University, China

## 12:55-13:15 Award Presentations

## Lunch Break 13:15-14:00 @ Easy Kitchen

## Bookmark your dates

6<sup>th</sup> International Conference and Exhibition on

## Analytical &amp; Bioanalytical Techniques

August 24-26, 2015 Valencia, Spain

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