



Colloquium on Emerging Metabolomics

July 25 - 27, 2016 • Las Vegas, NV, USA

EVENT LOCATION

Hampton Inn Tropicana and Event Center
4975 Dean Martin Drive
Las Vegas, NV 89118,
United States
Phone: +1 702-948-8119

09:00-09:30 Registrations

09:30-09:40 CEM-2016 Introduction

Keynote Session

Salon B Room

Chairs: Robert H. Weiss, University of California, Davis, USA
Henry M. Sobell, University of Rochester, USA

09:40-10:20 **Metabolomics in Kidney Cancer: From Biofluids to New Therapeutic Targets**
Robert H. Weiss, University of California, Davis, USA

10:20-11:00 **Premeltons in DNA**
Henry M. Sobell, University of Rochester, USA

11:00-11:30 **Coffee Break** **Foyer Area**

11:30-12:10 **Potential Role of Global Metabolomics in Precision Medicine**
Mike Milburn, Metabolon, USA

12:10-12:50 **Metabolic Implications of UBIAD1 Prenyltransferase Activity**
Michael L. Nickerson, National Institute of Health, USA

12:50-14:00 **Lunch** **Coral A and B**

14:00-14:40 **NMR-Computational Approaches in the Assignment of Stereochemistry of Complex Polyketides**
Mark T. Hamann, University of South Carolina, USA

14:40-15:20 **Pharmacometabolomics: Emerging Experimental Approaches and Computational Tools**
Gus R. Rosania, University of Michigan, USA

15:20-15:50 **CA215, A New Pan Cancer Biomarker and its Clinical Applications**
Gregory Lee, University of British Columbia, Canada

15:50-16:10 **Coffee Break** **Foyer Area**

16:10-17:10 **Poster Session (See Annexure)**

Salon B Room

18:00-19:00 **Welcome Reception**

Foyer Area

Featured Presentations

Salon B Room

Cancer & Analytical Metabolomics

Chair: Leo L. Cheng, Harvard Medical School, USA

Salon B Room

- 09:00-09:20 **NMR Based Metabolomics for Predicting Cancer Aggressiveness**
Leo L. Cheng, Harvard Medical School, USA
- 09:20-09:40 **Acyl CoA Synthetase 5 (ACSL5) Ablation in Mice Increases Energy Expenditure and Insulin Sensitivity and Delays Fat Absorption**
Thomas A. Bowman, Grand Canyon University, USA
- 09:40-10:00 **Multi-omics Tools for the Elucidation of Rare Neurological Disease**
Thomas Luke Simmons, University of Zurich Children's Hospital, Switzerland
- 10:00-10:20 **Metabolomics in Colorectal Cancer Research - from Cancer Prevention Studies to NIH Consortia**
Jennifer Ose, University of Utah, USA
- 10:20-10:40 **The Study of the Conformational Conversion Mechanism of the Prion Protein by Incorporating the Wenxiang Diagrams into NMR Spectroscopy**
Guo-Ping Zhou, Gordon Life Sciences Institute, USA
- 10:40-11:00 **Coffee Break** **Foyer Area**
- 11:00-11:20 **Non or Minimally Invasive High Resolution 1H NMR Metabolomics on Intact Biological Objects Using Slow Magic Angle Spinning**
Jian Zhi Hu, Pacific Northwest National Laboratory, USA
- 11:20-11:40 **Resolving the Complexity of the Lipidome Using Differential Ion Mobility Separations**
Brigitte Simons, SCIEX, Canada
- 11:40-12:00 **Challenges in Metabolomics Data Interpretation and the Role in FATP1 on Metabolic Reprogramming**
Doug Lee, Omic Insight, USA
- 12:00-12:20 **Metabolomics Causal Network in Observational Studies Using Data Integration in Large Scales**
Azam M. Yazdani, Human Genomic Center, Houston, USA
- 12:20-12:40 **Transketolase-like 1 Ectopic Expression is Associated with DNA Hypomethylation and Induces the Warburg Effect in Cancer Cells**
Aparna Jayachandran, University of Queensland, Australia
- 12:40-13:00 **Reprogramming Cancer Cell Metabolism, Reversing Oncogenic Properties and Inducing Differentiation in Glioblastoma**
Yakov Krelin, Soroka University Medical Center, Israel
- 13:00-14:00 **Lunch** **Coral A and B**

Pharmacometabolomics

Chairs: Eileen K. Jaffe, Fox Chase Cancer Center-TUHS, USA
Petras Dzeja, Mayo Clinic, USA

Salon B Room

- 14:00-14:20** **Structures of Phenylalanine Hydroxylase Reveal Mechanism for Maintenance of Safe Blood Phe Levels**
Eileen K. Jaffe, Fox Chase Cancer Center-TUHS, USA
- 14:20-14:40** **Metabolomics Approaches to Predicting Preterm Birth-Prospects and Challenges**
Dilly Anumba, The University of Sheffield, UK
- 14:40-15:00** **Stable Isotope 18O-Assisted Dynamic Metabolomics**
Petras Dzeja, Mayo Clinic, USA
- 15:00-15:20** **Lipidomic Changes in *C. elegans* in Response to Attenuation of the Insulin/IGF-1 or TGFbeta Signaling Pathways**
Jeevan K. Prasain, University of Alabama at Birmingham, USA
- 15:20-15:40** **Coffee Break** **Foyer Area**
- 15:40-16:00** **A Methodology to Enhanced Sensitivity of Urinary Metabolomics for Assessment of Kidney Function**
Isaie Sibomana, Wright State University, USA
- 16:00-16:20** **Drug Metabolism and Beyond: The Role of Human Flavin Containing Monooxygenase 3 in Personalized Medicine**
Gianluca Catucci, University of Torino, Italy
- 16:20-16:40** **Emerging Potential of White Tea as an Alternative or Complementary Strategy to Conventional Pharmacological Agents used Against (Pre)Diabetes**
Branca M. Silva, University of Beira Interior, Portugal
- 16:40-17:00** **Diagnosis and Treatment of Late-onset Pompe Disease in the Middle East and North Africa Region: Consensus Recommendations from an Expert Group**
Fatimah Alqarni, King Abdullah University Hospital, Saudi Arabia

Environmental & Plant Metabolomics

Chair: **Richard Phipps, University of Rochester, USA**

Salon B Room

08:30-08:50 Environmental Obesogenic Chemicals: Mechanisms of Action through Thy1 (CD90)
Richard Phipps, University of Rochester, USA

08:50-09:10 Novel Metabolites of Food Contaminant Phthalates Revealed by HRMS and their Implications in Quantitating Urinary Toxicant Exposure Markers
Pao-Chi Liao, National Cheng Kung University, Taiwan

09:10-09:30 Effect of Sequential Extraction on the GC-MS and LC-MS Metabolic Profiles of Black Bean, Black Cohosh and Soybean
Devanand Luthria, U.S. Department of Agriculture, USA

09:30-09:50 CA125 in Non-Hodgkin's Lymphoma
V. S. Ghalaut, Post Graduate Institute of Medical Sciences, India

09:50-10:10 Early Bone Marrow Response in Pediatric Acute Lymphoblastic Leukemia with Unfavorable and Favorable Presenting Features
P. S. Ghalaut, Post Graduate Institute of Medical Sciences, India

10:10-10:30 Coffee Break

Foyer Area

Animal Metabolomics

Chair: **Michel Aliani, University of Manitoba, Canada**

Salon B Room

10:30-10:50 Attenuation of Blood Pressure with Lentil Consumption in Spontaneously Hypertensive Rats (SHR)
Michel Aliani, University of Manitoba, Canada

10:50-11:10 Use of Stable Isotope Labeled Tracers and LC/MS/MS Metabolite Profiling to Track Lipid Digestion, Absorption and Metabolism in Rodents
Wensheng Lang, Janssen Research & Development, USA

11:10-11:30 Effect of Excess Iodine on Oxidative Stress Markers, Steroidogenic Enzyme Activities, Testicular Morphology and Functions in Adult Male Rats
Amar K Chandra, University of Calcutta, India

11:30-11:50 Role of Secondary Metabolites in Plant Growth Promotion and Biological Control
Samina Mehnaz, Forman Christian College, Pakistan

11:50-12:10 Metabolomic Study of a Wine Yeast *Saccharomyces cerevisiae* Flor Strain Under Different Wine Conditions through a Proteome-Metabolome Approach: Steps towards Yeast Immobilization Applications.
Jaime Moreno Garcia, University of California, USA

12:10-12:30 Using Reprogramming Metabolomics to Prevent Infection with Pathogens and Enhance Host Immunity against Pathogens
Xuanxian Peng, Sun Yat-Sen University, China

- 12:30-12:50** **Metabolomics Analysis for *Penicillium citrinum* Growth and Antifungal Activity Promoted by Fructose**
Hui Li, Sun Yat-Sen University, China
- 12:50-13:10** **Exogenous Alanine or/and Glucose Potentiate Kanamycin to kill Multidrug-Resistant Pathogens**
Bo Peng, Sun Yat-Sen University, China
- 13:10** **Lunch** **Coral A and B**

Departures

Poster Session

Salon B Room

- P-01** **Measuring Phosphoinositide Molecular Species using LC/MS/MS**
Takehiko Sasaki, Akita University, Japan
- P-02** **INPP4B Suppresses Thyroid Tumorigenesis by Dephosphorylating PI(3,4,5)P3**
Junko Sasaki, Akita University, Japan
- P-03** **A Metabolomic Approach to Understanding the Pathogen-Vector-Host Interactions in Citrus Huanglongbing**
Nabil Killiny, University of Florida, USA
- P-04** **The Structural and Functional Coordination of Glycolytic Enzymes in Muscle: Evidence of a Metabolon?**
Lynda Menard, University of Vermont, USA
- P-05** **Human Sperm-Egg Protein Interaction Network**
Soudabeh Sabetian, Universiti Teknologi Malaysia, Malaysia
- P-06** **Plasma Metabonomic Analysis on Rat Models with Different Diseases Based on the Disease Homology Theory of Traditional Uyghur Medicine**
Batur Mamtimin, Xinjiang Medical University, China
- P-07** **Targeting Cancer Initiating Cells in Hepatocellular Carcinoma**
Aparna Jayachandran, University of Queensland, Australia
- P-08** **Metabolomic Regulation Molecular Markers Related to HPV Infection and Cervical Squamous Cell Carcinoma**
Axiangu Hasimu, Xinjiang Medical University, China
- P-09** **Urine Metabonomics Study on Diabetes Patients by UPLC/Q-TOF MS**
Xiao Li Ma, Xinjiang Medical University, China

*We wish to meet you again
at
CEM- 2017*



UNITED Scientific
Group

2088 B2 Walsh Avenue, Santa Clara, CA 95050, USA

Ph: +1-408-426-4832, +1-408-426-4833; Toll Free: +1-844-395-4102; Fax: +1-408-426-4869

Email: secretary@cemetabolomics.com; contact@cemetabolomics.com

Web: www.cemetabolomics.com