

250th OMICS International Conference

Scientific Program

4th International Conference and Exhibition on

Metabolomics & Systems Biology

April 27-29, 2015 Philadelphia, USA



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08:30-09:00 Registrations



International
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Independence Room-A

09:30-10:00

Opening Ceremony

Keynote Forum

10:00-10:05	Introduction
10:05-10:30	Mukesh Verma National Institutes of Health, USA
10:30-10:55	Jian Zhi Hu Pacific Northwest National Laboratory, USA

Group Photo

Networking & Refreshments Break 10:55-11:10 @ Independence Foyer

Track 1: Metabolomics and Cancer Research

Track 2: Analytical Techniques in Metabolomics

Track 3: Applications of Separation Sciences in Metabolomics

Track 4: Frontiers of Metabolomics Research

Session Chair: Mukesh Verma, NIH, USA

Session Co-Chair: Paola Marignani, Dalhousie University, Canada

Session Introduction

11:10-11:30	Using stable isotope resolved metabolomics to characterize glycolytic inhibition and to decode synthetic lethality in cancer Stefan Kempa, BIMSB, Germany
11:30-11:50	Metabolomic approaches in cancer epidemiology Mukesh Verma, NIH, USA
11:50-12:10	Non-, or minimally invasive intact biological objects using slow magic angle spinning Jian Zhi Hu, Pacific Northwest National Laboratory, USA
12:10-12:30	Targeting cancer metabolism to overcome treatment resistance in HER2-positive breast cancer Paola A Marignani, Dalhousie University, Canada
12:30-12:50	Evaluating the association of heme and heme metabolites with lung cancer energetics and progression Li Zhang, The University of Texas at Dallas, USA
12:50-13:10	Non-invasive biomarker candidates of interstitial cystitis Jayoung Kim, Cedars-Sinai Medical Center, USA

Lunch Break 13:10-14:10 @ Benjamin's

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

Session Co-Chair: Houkai Li, Shanghai University of Traditional Chinese Medicine, China

14:10-14:30	Metal Element on Non-alcoholic Fatty Liver Disease(NAFLD) Yongyu Zhang, Shanghai University of Traditional Chinese Medicine, China
14:30-14:50	Dynamic pattern and terminal switch of lipid metabolomics in HBV tumorigenesis Ih-Jen Su, National Health Research Institutes, Taiwan
14:50-15:10	BRMS1L suppresses breast cancer metastasis by inducing epigenetic silence of FZD10 Chang Gong, Sun Yat-Sen University, China

Networking & Refreshments Break 15:10-15:30 @ Benjamin's

15:30-15:50	Combined metabolomic and transcriptomic profiling revealed the time-dependent effects of metformin on LoVo cells Houkai Li, Shanghai University of Traditional Chinese Medicine, China
15:50-16:10	Metabolomics approach to understanding the metabolic regulatory effects on rats under several kinds of stresses Xiaoyan Wang, Shanghai Center for Systems Biomedicine, China
16:10-16:30	Mitochondrial DNA depletion in H1299 cells promotes radio-resistance and anti-apoptosis through activation of PI3K/Akt2 Fuxiang Zhou, Zhongnan Hospital of Wuhan University, China
16:30-16:50	Comparative metabolic profiling of halotolerant bacterial strains and identification of novel species-specific metabolites Jayaraman G, VIT University, India

Panel Discussion

Cocktails sponsored by Journal of Metabolomics: Open Access 18:15-19:15 @ Independence Foyer

Day 2	April 28, 2015
Independence Room-A	
Keynote Forum	
09:00-09:25	Asha R Kallianpur Cleveland Clinic Lerner College of Medicine, USA
09:25-09:50	Sam F Y Li National University of Singapore, Singapore
09:50-10:15	Vladimir Tolstikov BERG, USA (Video Presentation)
Networking & Refreshments Break 10:15-10:30 @ Independence Foyer	
Track 1: Metabolomics and Cancer Research	
Track 4: Frontiers of Metabolomics Research	
Track 5: Metabolic Syndrome	
Session Chair: Deliang Guo, The Ohio State University, USA	
Session Co-Chair: Scott J Tebbutt, University of British Columbia, Canada	
Session Introduction	
10:30-10:50	Preferential sequestration of a vanadyl chelate by cancer tissue facilitates 2-(fluorine-18)-2-deoxyglucose (FDG) uptake for Positron emission tomography (PET) imaging Marvin W Mäkinen, The University of Chicago, USA
10:50-11:10	Integrated metabolite and RNA biomarker signatures of the late phase asthmatic response Scott J Tebbutt, University of British Columbia, Canada
11:10-11:30	Mass spectrometry based metabolic profiles of brain cancer Khalid Al-Qahtani, University of Oxford, UK
11:30-11:50	Use of electricity to direct microbial metabolite production John M Pisciotta, West Chester University, USA
11:50-12:10	Lipid metabolism in cancer Deliang Guo, The Ohio State University, USA
12:10-12:30	An metabolomic approaches to identify the endogenous substrate of OCT1 Ligong Chen, Tsinghua University School of Medicine, China
Lunch Break 12:30-13:30 @ Benjamin's	
13:30-14:30 Poster Presentations	
Poster Judge: Sam F Y Li, National University of Singapore, Singapore	
Workshop	
14:30-15:30	Metabolomics research using bioelectrochemical systems John M Pisciotta, West Chester University, USA
Track 6: Metabolic Modelling	
Track 7: Systems Biology and Computational Biology	
Track 8: Bioinformatics and Advancements	
Track 9: Data Analysis and Interpretation	
Session Chair: John M Pisciotta, West Chester University, USA	
Session Co-Chair: Giulia Guerriero, University of Naples Federico II, Italy	
Session Introduction	
15:30-15:50	In silico identification of gene targets for bioethanol production from lignocellulosic hydrolysates using E. coli Shireesh Srivastava, ICGEB, India
15:50-16:10	Metabolomics of xylose-fermenting yeast for increasing efficiency in the production of second generation ethanol Patricia Verardi Abdelnur, Embrapa Agroenergy, Brazil
16:10-16:30	Frontiers in comparative endocrinology: Challenges and opportunities of the "Program of Relevant National Interest" Giulia Guerriero, University of Naples Federico II, Italy
Networking & Refreshments Break 16:30-16:50 @ Independence Foyer	
16:50-17:10	Assessment of reproductive hormones and gynaecomastia in male CML patients with imatinib therapy Veena Singh Ghalaut, PGIMS ROHTAK, India
17:10-17:30	Tryptase – new diagnostic and prognostic marker for AML AND CML P S Ghalaut, PGIMS Rohtak, India
17:30-17:50	Isolation, identification and evaluation of highly cellulases producing trichoderma isolates from Egypt A I Fahmi, Menoufia University, Egypt
Cocktails sponsored by Journal of Computer Science and Systems Biology 18:15-19:15 @ Independence Foyer	

Day 3

April 29, 2015

Independence Room-A

Track 10: Proteomics and Genomics

Track 11: Clinical Metabolomics and Lipidomics

Track 12: Analytical Platforms Employed in Metabolomics

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

Session Co-Chair: P K Ragunath, Sri Ramachandra University, India

09:30-09:50 Total lipid extraction for lipidomics made easy – the BUME method
Lars Lofgren, AstraZeneca R&D, Sweden

09:50-10:10 Relevance of Machine Learning Approach in Analysing Metabolomic Data to gain insights on Comorbidity issues in COPD & Asthma
P K Ragunath, Sri Ramachandra University, India

10:10-10:30 SimMet: Informatics tool for automating LC-MS and MS/MS based large metabolomic data processing and analysis
Ningombam Sanjib Meitei, Premier Biosoft, USA

10:30-10:50 Application of metabolomics for toxicity assessment of solid waste re-utilization
Sam F Y Li, National University of Singapore, Singapore

Networking & Refreshments Break 10:50-11:00 @ Independence Foyer

Young Researchers Forum

11:00-11:20 Dissecting the distinct functions of mitochondria
Inmaculada Martinez-Reyes, Northwestern University, USA

11:20-11:40 Quantifying metabolic fluxes in cancer and stem cells
Christin Zasada, BIMSB, Germany

11:40-12:00 De-differentiation: A critical malignant phenotype in glioblastoma
Narinderbir Singh, Deakin University, Australia

Panel Discussion

Lunch Break 12:30-13:30 @ Benjamin's

Bookmark your dates

5th International Conference and Exhibition on

Metabolomics & Systems Biology

May 30-June 01, 2016 Osaka, Japan

Website: www.metabolomicsconference.com

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