International Conference and Exhibition on

Metabolomics & Systems Biology

20-22 February 2012   San Francisco Airport Marriott Waterfront, USA

Scientific Program

Conference Secretariat

5716 Corsa Ave., Suite 110, Westlake, Los Angeles, CA 91362-7354, USA
Phone: +1- 650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Email: metabolomics2012@omicsonline.org
http://omicsonline.org/metabolomics2012
Opening Ceremony

Keynote Forum

09:30-09:35 Introduction
09:35-10:00 Prof. Michael Snyder
Stanford University, USA
10:00-10:25 Dr. Russel J. Reiter
University of Texas Health Science Center, USA
10:25-10:40 Coffee Break at Grand Ballroom Registration Desk Foyer
10:40-11:05 Dr. Mukesh Verma
National Cancer Institute, USA
11:05-11:30 Dr. Chryssostomos Chatgilialoglu
National Research Council, Italy
11:30-11:55 Dr. Zhongming Zhao
Vanderbilt University School of Medicine, USA
11:55-12:20 Dr. Babu Guda
University of Nebraska Medical Center, USA

Salons A - D

Track 1-1: Gene Expression and Metabolomic Profiling

13:00-13:20 Title: Metabolic profile of endocrine resistance
Dr. Robert Clarke, Georgetown University Medical Center, USA
13:20-13:40 Title: Gene expression profiling of the cancer chemotherapeutic agent, cisplatin, compared with its ineffective isomer, transplatin.
Prof. Vincent Murray, University of New South Wales, Australia
13:40-14:00 Title: Gene expression profiling of differentiating hematopoietic stem cells identifies transcriptional dysregulation in haematological malignancies
Prof. Wolf-Karsten Hofmann, University Hospital Mannheim, Germany
14:00-14:20 Title: Transcriptional module discovery based on heterogeneous information
Dr. Gaelle Lelandais, Univ Paris Diderot, France
14:20-14:40 Title: Transcriptional reprogramming in cancer cells triggered by glucose or glutamine starvation
Dr. Nianli Sang, Drexel University College of Arts & Sciences, USA
14:40-15:00 Title: Comparison of Transcription Profiles in Lung Tissues between PRRSV Resistant and Susceptible Pigs
Dr. Yunliang Jiang, Shandong Agricultural University, China

15:00-15:20 Title: Metabolomics of glioblastoma: Discovery of differentially regulated metabolites encoding tumorigenicity and treatment resistance in cell culture models
Dr. Thirumoorthy Krishnan, The Ohio State University Medical Center, USA

15:20-15:40 Title: Using time-course metabolomics to characterize the early interchange of substrates and putative signals during the establishment of the Populus-Laccaria symbiosis
Dr. Timothy Tschaplinski, Oak Ridge National Laboratory, USA

Coffee Break at Grand Ballroom Registration Desk Foyer 15:40-15:50

15:50-16:10 Title: Structural and functional characterization of microcin C resistance peptidase MccF from Bacillus anthracis
Dr. Andrzej Joachimiak, Argonne National Laboratory, USA

16:10-16:30 Title: MicroRNA expression profiles and lipids and non-lipids responses to statins treatment among patients with primary hypercholesterolemia and treated with pitavastatin and atorvastatin in a paralleled randomized controlled trial study
Dr. Kuo-Liong Chien, National Taiwan University, Taiwan

16:30-16:50 Title: Stage evolution of lipidomics and gene expressions associated with metabolic syndrome in HBx transgenic tumorigenesis
Prof. Ih-Jen Su, National Health Research Institutes, Taiwan

16:50-17:10 Title: Oncogenomic investigation in the field of colon cancer carcinogenesis
Dr. Peter Pocza, Hungary

17:10-17:30 IDO1 (indoleamine 2,3-dioxygenase 1) has a role in the Psychiatric manifestations of Latent Toxoplasmosis?
Dr. Baharak Khabazghazvini, University of Maryland, USA

Track 1-4: Mass Spectrometry in Metabolomics

Session Introduction

17:30-17:50 Title: The golm metabolome database between metabolite substructure prediction and reporting of metabolomic data Sets for the scientific community
Dr. Joachim Kopka, Max Planck Institute of Molecular Plant Physiology, Germany

17:50-18:10 Title: Amino Index technology A Plasma Free Amino Acid (PFAA) profile-based screening indices for various cancers
Dr. Akira Imaizumi, Ajinomoto, CO., Inc., Japan

18:10-18:30 Title: Metabolite profiling and dynamic 13C metabolomics of methane assimilation pathways in methanotrophic bacteria
Dr. Song Yang, University of Washington, USA

18:30-18:50 Title: The GCMS-based metabolomic study in Mice with colitis induced by dextran sulfate sodium
Dr. Masaru Yoshida, Kobe University Graduate School of Medicine, Japan

18:50-19:10 Title: Identification of metabolites as predictive biomarkers for dementia
Dr. Malahat Mousavi, Umeå University, Sweden

19:10-19:30 Title: Metabolic profiling by UHR-Q-TOF analysis of dansylated metabolite extracts to study yeast Arginine synthesis mutants
Dr. Aiko Barsch, Bruker Daltonik GmbH, Germany

19:30-19:50 Title: From hyperphagic rodents to diabetic complications - targeted metabolomics in preclinical and clinical diabetology
Dr. Alexandra C. Gruber, Biocrates Life Sciences AG, Austria

19:50-20:10 Title: C60 derivatives as novel matrices for analysis of small molecules by MALDI-TOF MS
Dr. Shaoxiang Xiong, Chinese Academy of Sciences, China
Title: Analysis of molecular mechanisms associated to the adaptation of NS0 myeloma cell line to protein-free medium
Dr. de la Luz K. Rashida, Center of Molecular Immunology, Havana, Cuba

Title: Metabolomics fingerprinting in clinical study of multiple sclerosis disease
Ms. Agnieska Smolinska, Radboud University Nijmegen, The Netherlands

Salons G & H

Track 1-2: NMR Spectroscopy in Metabolomics
Track 1-3: Microarray Technology and Data Analysis
Track 1-5: Metabolomics and Toxicology

13:00-13:20 Title: Metabolite analysis of biological mixtures using adaptable-shape modeling of an online NMR spectral database
Dr. Roger Chylla, National Magnetic Resonance Facility at Madison, USA

13:20-13:40 Title: NMR metabolomics and drug discovery
Dr. Robert Powers, University of Nebraska-Lincoln, USA

13:40-14:00 Title: Comparison of targeted and untargeted Stable Isotope Resolved Metabolomics (SIRM)
Dr. Jeffrey Macdonald, University of North Carolina, USA

14:00-14:20 Title: Systems biology approach to cancer metabolomics: Dynamic data analysis through phylogenetics
Dr. Hakima Amri, Georgetown University Medical Center, USA

14:20-14:40 Title: Streptomyces strain improvement using interspecies DNA microarray system
Prof. Eung-Soo Kim, Inha University, Korea

14:40-15:00 Title: Metabolomics and transcriptomics analyses of Acetaminophen- and Carbon Tetrachloride induced hepatotoxicity
Dr. Laura K. Schnackenberg, Food and Drug Administration, USA

15:00-15:20 Title: SIRT1 in metabolism and metabolic diseases
Dr. Xiaoling Li, National Institute of Environmental Health Sciences, NIH, USA

15:20-15:40 Title: NMR based metabolomics in clinical and epidemiology screening
Dr. Manfred Spraul, BrukerBioSpin GmbH, Germany

Coffee Break at Grand Ballroom Registration Desk Foyer 15:40-15:50

15:50-16:10 Title: 1H NMR metabolomics combined with gene expression analysis for the determination of major metabolic differences between cancer cell lines
Dr. Miroslava Cuperlovic-Culf, National Research Council of Canada, Canada

16:10-16:30 Title: Interaction of fatty acid with myoglobin
Mr. Lifan Shih, University of California, USA

16:30-16:50 Title: Ultrasensitive allosteric regulation of glycolytic efflux
Mr. Yifan Xu, Joshua Rabinowitz Lab, Princeton University, USA

16:50-17:10 Title: Microarray-based cytogenomics, gene expression and epigenomics in colorectal carcinoma
Dr. Muhammad G. Kibriya, University of Chicago, USA

17:10-17:30 Title: Brain metabolomics identifies different mild therapeutic hypothermia treatments in an Oxygen-Glucose deprivation rodent model of neonatal Asphyxia
Dr. Lawrence Litt, The University of California San Francisco, USA

17:30-17:50 Title: Metabolomic variation of Brassica rapa (var. raapstelen) and Raphanus sativus L. at different developmental stages
Dr. Muhammad Jahangir Awan, Hazara University, Pakistan

17:50-18:10 Title: The developmental neurotoxicity of lead in rat primary aggregating brain cell cultures using transcriptomics and metabolomics approaches
Dr. Helena Hogberg, The Johns Hopkins University, USA
18:10-18:30 Title: Metabolomics for understanding adverse drug effects  
Dr. Fozia Noor, Saarland University, Germany

18:30-18:50 Title: Diabesity: Diabetes from a Surgical perspective  
Dr. Haydar A Nasser, Lebanese University, Lebanon

Salons I & J

Track 2: Proteomics & Genomics

13:00-13:20 Title: Adaptation of organisms by resonance of RNA transcription with the cellular redox cycle  
Dr. Viktor Stolc, NASA Ames Research Center Moffett Field, USA

13:20-13:40 Title: Novel human-associated uncultured bacterial pathogens, environmental models, and what metagenomics data tell us  
Dr. Cleber Ouerney, San Jose State University, USA

13:40-14:00 Title: Genomic and Proteomic evidences of BPA involvement in Breast Cancer  
Dr. Mihi Yang, Sookmyung Women’s University College of Pharmacy, South Korea

14:00-14:20 Title: Repertoire of variants recruited by the environmental cues that occur during asexual reproduction  
Dr. Alain Robichon, University Nice Sophia Antipolis, France

14:20-14:40 Title: Network based analysis of genome wide association data provides novel candidate genes for lipoprotein traits  
Dr. Amitabh Sharma, Northeastern University, USA

14:40-15:00 Title: New insights into the early steps of adipocyte generation unveiled by transcriptomics  
Dr. Miguel Monteiro, Université de Nice Sophia-Antipolis, France

15:00-15:20 Title: Profiling trait anxiety: Transcriptome analysis reveals Cathepsin B (Ctsb) as a novel candidate gene for emotionality in mice  
Dr. Ludwig Czibere, Max Planck Institute of Psychiatry, Munich, Germany

15:20-15:40 Title: Collective fluctuations guiding global biological responses  
Prof. Masa Tsuchiya, Keio University, Japan

Coffee Break at Grand Ballroom Registration Desk Foyer 15:40-15:50

15:50-16:10 Title: In vitro biotinylation and proteomics identification of endothelial cell surface proteins post radiation in pursuit of vascular targets  
Dr. Margaret Simonian, Macquarie University, Australia

16:10-16:30 Title: Effect of sea cucumber collagen diet on learning and memory in mice and molecular correlates  
Dr. Xiurong Su, Ningbo University, China

16:30-16:50 Title: “OMICS” analysis of cadmium-induced lung cell transformation  
Prof. Yanming Xu, Shantou University Medical College, China

Track 3: Glycomics & Lipidomics

16:50-17:10 Title: Metabolomic approaches to delineating fatty acid biosynthesis in the apicomplexan parasite Toxoplasma gondii  
Dr. James Ian MacRae, University of Melbourne, Australia

17:10-17:30 Title: Metabolomics-based investigation of the lipid-lowering mechanism of Schisandrin B in nonalcoholic steatohepatitis  
Dr. Hiu Yee Anna KWAN, School of Chinese Medicine, Hong Kong, China

17:30-17:50 Title: Glyconectin proteoglycans: The self assembling molecular velcro mediating self non self recognition and adhesion implicated in evolution of multicellularity  
Dr. Gradimir Misevic, Gimmune GmbH, Switzerland

17:50-18:10 Title: MicroRNAco-regulation of TET2 associated genes  
Dr. Lawrence Wing Chi CHAN, Hong Kong Polytechnic University, China
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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| 18:10-18:30 | **Title: Combinatorial gene expression correlates to Neuronal Arbor Diversity**  
Dr. Badea, National Eye Institute/NIH, USA | 18:30-18:50  
**Title: Use of molecular probes and mass spectrometry for tracing metabolites of specific lipids**  
Dr. Naomichi Baba, Okayama University, Japan |
| 18:50-19:10 | **Title: Metabolomics study of the effect of omega-3 and vegetables on patients with type 2 diabetes reveals the metabolic alteration in plasma-phospholipids and ceramides**  
Dr. Ali Ata Moazzami, Swedish University of Agricultural Sciences, Sweden | 19:10-19:30  
**Title: Cytomimetic glycan microarray for profiling glycan-protein interactions**  
Dr. Xue-Long Sun, Cleveland State University, USA |
| 19:30-19:50 | **Title: New nano array technologies for single cell omic analysis: Why and how?**  
Dr. Gerard BenAssayag, CEMES/CNRS, France | 20:30-21:00  
Day 2     21 February 2012  
Salons A & B  
Breakfast at Salon E 08:00-08:30  
Track 4: Computational Systems Biology: Tools and Technologies  
Session Introduction  
08:40-09:00  
**Title: Further developments in systems biology: Virtual scanning**  
Mr. Graham Wilfred Ewing, Montague Healthcare, England |
| 10:30-10:50 | **Title: Systems biology warehousing: A benchmark of frameworks for effective data integration**  
Dr. Thomas Triplet, Concordia University, Canada | 10:30-10:50  
**Title: Assaying the multiple energy-producing pathways of mammalian cells using biolog’s PMM/OmniLog cell-based assay platform**  
Mr. John Z. Pietrzyk, Biolog Inc., USA |
| 11:00-11:20 | **Title: Detection of developmental stages from DNA microarray time series and robust modeling of gene expression evolution in Drosophila**  
Prof. Rooman Marianne, Université Libre de Bruxelles, Belgium | 11:00-11:20  
**Title: Automated reconstruction of tissue specific human metabolic networks and its potential impact on personalized medicine**  
Dr. Adil Mardinoglu, Chalmers University of Technology, Sweden |
| 12:10-12:40 | Lunch Break at Salon E |
12:40-13:00 Title: Automated metabolic pathway reconstruction based on structural grammars
Dr. Rajat De, Indian Statistical Institute, India

13:00-13:20 Title: A new computational approach to analysis the variability and regulation processes in drug metabolic systems based on iterative combinations of metabolic profiles
Dr. Nabil Semmar, ISSBAT, Tunisia

Track 5-1: Systems Biology: Medical Applications of Human Diseases
Track 5-3: Plant and Animal Biotechnology

13:20-13:40 Title: Adventures in personal genomics and whole omics profiling
Prof. Michael Snyder, Stanford University, USA

13:40-14:00 Title: The mevalonate pathway: An integrated view of apoptosis control to abrogate cancer cell growth
Dr. Laurent Corcos, University of West Brittany, France

14:00-14:20 Title: The systems biology of aspen wood development
Dr. Torgeir R Hvidsten, Umeå University, Sweden

14:20-14:40 Title: Multi-scale data integration of biological complexity: Towards rational drug design and systems-based medicine
Dr. Sergio Baranzini, University of California San Francisco, San Francisco, USA

14:40-15:00 Title: Metabolomics as a platform for high-throughput biomarker discovery in cancer
Asst Prof. Aalim M. Weljie, University of Calgary, Canada

15:00-15:20 Title: Discovering novel mechanisms of breast cancer brain metastasis using high throughput mass spectrometry-based technology
Dr. Emily Chen, Stony Brook University, USA

15:20-15:40 Title: Network biology of the gut microbial “signaling metabolome” and consequences for identification of drug targets
Dr. Marc Dumas, Imperial College London, UK

15:40-16:00 Title: Genetically encoded molecular automation algorithm orchestrates transcriptional reprogramming, photosynthesis and seed yield efficiency in Arabidopsis
Prof. Stanislaw Karpiński, Warsaw University of Life Sciences, Poland

Coffee Break at Grand Ballroom Registration Desk Foyer: 16:00-16:10

Track 5-2: Microbial Systems Biology

16:10-16:30 Title: Clostridium thermocellum ethanol stress responses and tolerance mechanisms
Dr. Steven D. Brown, The BioEnergy Science Center and Oak Ridge National Laboratory, USA

16:30-16:50 Title: CcpA, a pleiotropic key regulator in Butanol-producing Clostridium acetobutylicum
Dr. Weihong Jiang, Chinese Academy of Sciences, China

16:50-17:10 Title: Improved methods for metabolic kinetic modeling and complex bio-system analysis
Dr. Ru-Dong Li, Chinese Academy of Sciences, China

17:10-17:30 Title: Reconstruction of sugar utilization pathways and regulons in the Clostridium genus
Dr. Chen Yang, Chinese Academy of Sciences, China

17:30-17:50 Title: Computational models to integrate transcriptomic and proteomic data for predict abundance of undetected proteins
Dr. Weiwen Zhang, Tianjin University, China

17:50-18:10 Title: Optimality in cellular response: Microorganisms anticipate and prepare in advance to environmental changes
Dr. Amir Mitchell, University of California, USA
Salons C & D

Track 6: Cell: Signaling and Networking

08:40-09:00 Title: How melanoma treatments alter signaling networks on human lymphocytes after immuno- and chemotherapy-exposure
Dr. Begonya Comin-Anduix, University of California Los Angelis, USA

09:00-09:20 Title: Integration of epigenomic and genomic data elucidates pathways in head and neck squamous cell carcinoma
Dr. Michael Ochs, Johns Hopkins University, USA

09:20-09:40 Title: Discovery of Selective Small-Molecule Inhibitors of Key Protein-Protein Interactions in the Wnt/β-Catenin Signaling Pathway By Rational Design
Prof. Haitao (Mark) Ji, University of Utah, USA

09:40-10:00 Title: Systems biology approach to cell signaling lead to new drug targets for glaucoma
Dr. Thomas Lukas, Northwestern University, USA

10:00-10:20 Title: Tumstatin and matrix metaloprorotenase-2 interactions and its angioinhibitory actions in-vitro and lin-vivo
Dr. Sudhakar Akul Yakkanti, Boystown National Research Hospital, USA

Coffee Break at Grand Ballroom Registration Desk Foyer 10:20-10:30

10:30-10:50 Title: Stress responses of resistant and susceptible tomato plants to Tomato yellow leaf curl virus infection are different
Dr. Rena Gorovits, The Hebrew University of Jerusalem, Israel

10:50-11:10 Title: Metabolomic and transcriptomic profiling studies to support the identification of biomarkers and to understand the MOA of DGAT1 inhibition
Dr. Eugene Tan, Merck Research Laboratories, USA

11:10-11:30 Title: Systems biology of oncogene-modulated drug sensitivity-resistance transition in PI3K/PTEN/AKT signaling network
Dr. Alexey Goltsov, University of Abertay Dundee, United Kingdom

11:30-11:50 Title: Conserved features of cancer cells define their sensitivity to HAMLET-induced death; c-Myc and glycolysis
Dr. Catharina Svanborg, Lund University, Sweden

11:50-12:10 Title: Intelligent method for risk estimation in breast cancer disease
Dr. Raed I. Hamed, University of Anbar, Iraq

Lunch Break at Salon E 12:10-12:40

12:40-13:00 Title: COX-2 inhibitor prevents esophageal adenocarcinoma in Barrett’s esophagus
Dr. Fadhil Ghaly Yousef Al-Amran, Kufa University, Iraq

13:00-13:20 Title: Resistance protein network obtained through genomic data integration
Dr. Liliana López-Kleine, Universidad Nacional de Colombia, Colombia

13:20-13:40 Title: Oxidative stress in exercise: Possible new target for therapeutic intervention
Dr. Vladimir Jakovljevic, University of Kragujevac, Serbia

13:40-14:00 Title: TLR-4 and non alcoholic fatty liver disease (NAFLD); Is it time to target?
Dr. Ahmed Abu Shanab, Mallow G. Hospital, Ireland

14:00-14:20 Title: PAK1 kinase promotes cell motility through CRK Serine phosphorylation in non-small cell lung cancer cells
Prof. Fred Mortazavi, David Geffen School of Medicine at UCLA, USA

14:20-14:40 Title: MAP Kinase modules: The power of two
Dr. Angus Harding, University of Queensland, Australia
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<th>Time</th>
<th>Title</th>
<th>Presenter, Institution</th>
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<tr>
<td>14:40-15:00</td>
<td>Title: Promotion of lipid raft mediated learning and memory pathways in mice fed with Acaudina leucoprocta hydrolyzate</td>
<td>Dr. Yanyan Li, China Pharmaceutical University, China</td>
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<td>15:00-15:20</td>
<td>Title: Antilipolytic effect of proinsulin C-peptide in diabetic rat</td>
<td>Dr. Ahmad Ghorbani, Neyshabur Faculty of Medical Sciences, Iran</td>
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<td>15:20-17:00</td>
<td>B2B / Scientific Partnering Meetings</td>
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<td>17:00-19:00</td>
<td>Poster Presentation</td>
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<td><strong>Cocktails at San Ramon</strong> Sponsored by:</td>
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<td>Journal of Computer Science &amp; Systems Biology 19:00-19:30</td>
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<td>Day 3</td>
<td><strong>Breakfast at Salon E 08:00-08:30</strong></td>
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<td><strong>Salons C &amp; D</strong></td>
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<td>Track 7: Omics Meets Chemistry and Drug Discovery</td>
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<td>Track 8: Synthetic Biological Systems</td>
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<td>Track 9: Metabolomics In Systems Biology</td>
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<td><strong>Session Introduction</strong></td>
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<td>08:40-09:00</td>
<td>Title: Improved detection via nano microfluidics-based devices and nanodelivery to colon cancer therapy</td>
<td>Dr. Jagat Kanwar, Deakin University, Australia</td>
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<td>09:00-09:20</td>
<td>Title: Conceptual questions in prophylactic oncology, creation of a preventive anticancerogentic vaccine</td>
<td>Dr. Levon Mkrtchyan, Academy of Medical Sciences, Republic of Armenia</td>
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<td>09:20-09:40</td>
<td>Title: Role of the CM2 protein in Influenza C virus replication</td>
<td>Prof. Yasushi Muraki, Kanazawa Medical University School of Medicine, Japan</td>
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<td>09:40-09:40</td>
<td>Title: Novel tool for monitoring nitrite and/ornitrice oxide continuously in real time for drug discovery applications</td>
<td>Dr. James H. Silver, Silver Medical, Inc., USA</td>
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<td>09:40-10:00</td>
<td>Title: Metabolomics in vivo - a tool to detect systemic toxicity in preclinical/ toxicological studies</td>
<td>Dr. Kamp Hennicke, BASF SE, Germany</td>
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<td>10:00-10:20</td>
<td><strong>Coffee Break at Foyer A - D: 10:20-10:30</strong></td>
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<td>10:30-10:50</td>
<td>Title: Anatomical dissection of metabolic systems of cancer by in vivo high-resolution imaging mass spectrometry</td>
<td>Prof. Makoto Suematsu, Keio University, Japan</td>
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<td>10:50-11:10</td>
<td>Title: Standardization and metabonomics studies of hydro-ethanolic extract of Piper betel root in nanoparticles</td>
<td>Mr. Plaban Bhattacharya, University of Calcutta, India</td>
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<td>11:10-11:30</td>
<td>Title: Development and validation of bioanalytical method for the quantitative estimation of duloxetine in human plasma using lcms/ms</td>
<td>Dr. Shakti Prasad Pattanayak, Birla Institute of Technology, India</td>
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<td>11:30-11:50</td>
<td>Title: A novel metabolic feedback loop triggered by pyruvate kinase controls redox metabolism in respiring cells</td>
<td>Dr. Markus Ralser, University of Cambridge, United Kingdom</td>
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<td>11:50-12:10</td>
<td>Title: 5-lipoxigenase inhibitor and thyroid hormone analog attenuate global myocardial ischemia reperfusion injury after heterotopic heart transplantation in male rats</td>
<td>Dr. Najah R. Hadi, Kufa University, Iraq</td>
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<td><strong>Lunch Break at San Ramon: 12:10-12:40</strong></td>
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Encyclopedia of Bioequivalence and Bioavailability (E-BABE)
Analytical and Bio-Analytical Methodology Database

- World’s only database powered by an updated bioanalytical methods of pharmaceuticals for suitable method selection with over thousands of combinations and automatic checks against thousands of methods: all at your finger tips.
- Intelligent processing which understands your analytical terminology and lets you generate, select of your priority and much more in seconds.
- Use the comprehensive analytical and bio-analytical methodology tool to select important method for an insight into regular quality control.
- Now selection of Analytical and Bio-analytical methods of pharmaceuticals for analysis/routine quality control is on your finger tips for a click!
- All-in-one database with multi-user access.
- As of now it has 5000 methods and is updated regularly.

http://ebabe.gsblifesciences.org

Bookmark your dates

2nd International Conference and Exhibition on

Metabolomics & Systems Biology

April 8-10, 2013  Hilton Chicago/Northbrook, USA