OMICS Group Conferences
Accelerating Scientific Discovery

International Conference and Exhibition on

Metabolomics & Systems Biology

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

Scientific Program



Conference Secretariat

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OMICS Group Conferences
Accelerating Scientific Discovery

Upcoming Conferences



2nd International Conference on
Clinical & Experimental Cardiology
5-7 March 2012 Omaha Marriott, Omaha, USA



2nd International Conference on
Clinical & Experimental Opthalmology
5-7 March 2012 Omaha Marriott, Omaha, USA



2nd International Conference on
Clinical & Experimental Dermatology
5-7 March 2012 Omaha Marriott, Omaha, USA



International Conference and Exhibition on
Biometrics & Biostatistics
5-7 March 2012 Omaha Marriott, Omaha, USA



World Congress on
Gastroenterology & Urology
12-14 March 2012 Omaha Marriott, Omaha, USA



International Conference and Exhibition on
Nanotechnology & Nanomedicine
12-14 March 2012 Omaha Marriott, Omaha, USA



3rd World Congress on
Bioavailability & Bioequivalence:
Pharmaceutical R & D Summit
26-28 March 2012 Hyderabad Marriott Hotel, India



International Conference and Exhibition on
Neurology & Therapeutics
14-16 May 2012 Renaissance Las Vegas, USA



International Conference and Exhibition on
Biosensors and Bioelectronics
14-16 May 2012 Renaissance Las Vegas, USA



2nd World Congress on
Proteomics & Bioinformatics
2-4 July 2012 Renaissance Las Vegas, USA



3rd World Congress on
Biomarkers & Clinical Research
2-4 July 2012 Renaissance Las Vegas, USA



International Conference and Exhibition on
Orthopedics
13-15 August 2012 Hilton Chicago/Northbrook, USA



International Conference and Exhibition on
Rheumatology & Therapeutics
14-15 August 2012 Hilton Chicago/Northbrook, USA



2nd World Congress on
Vaccines & Vaccination
20-22 August 2012 Hilton Chicago/Northbrook, USA



International Conference and Exhibition on
Nephrology & Therapeutics
20-22 August 2012 Hilton Chicago/Northbrook, USA



World Congress on
Earth Science & Climate Change
21-22 August 2012 Hilton Chicago/Northbrook, USA



2nd World Congress on
Virology
20-22 August 2012 Renaissance Las Vegas, USA



International Conference on
Addiction Research and Therapy
20-22 August 2012 Renaissance Las Vegas, USA



International Conference on
Pathology
27-29 August 2012 DoubleTree by Hilton Philadelphia, USA



International Conference on
Pulmonary & Respiratory Medicine
27-29 August 2012 DoubleTree by Hilton Philadelphia, USA



International Conference and Exhibition on
Nutritional Science & Therapy
27-29 August 2012 DoubleTree by Hilton Philadelphia, USA



Conference on
Central Nervous System - Drugs Effecting & Novel Drug Development
27-29 August 2012 DoubleTree by Hilton Philadelphia, USA



Occupational Health & Safety
Summit
27-29 August 2012 DoubleTree by Hilton Philadelphia, USA



2nd World Congress on
Cancer Science & Therapy
10-12 September 2012 Hilton San Antonio Airport, USA



International Conference on
Hydrology and Ground Water Expo
10-12 September 2012 Hilton San Antonio Airport, USA



World Congress & Expo on
Biowaivers and Biosimilars
10-12 September 2012 Hilton San Antonio Airport, USA



3rd World Congress on
Biotechnology
13-15 September 2012
Hyderabad International Convention Center, India



International Conference on
Biodiversity and Sustainable Energy Development
14-15 September 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Solar Systems & Power Generation Technologies
14-15 September 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Hotel & Business Management
14-15 September 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Translational Medicine
17-19 September 2012 Holdiay Inn San Antonio, USA



World
Toxicology Summit and Expo
17-19 September 2012 Holdiay Inn San Antonio, USA



3rd World Congress on
Diabetes & Metabolism
24-26 September 2012
Hyderabad International Convention Center, India



2nd World Congress on
Pediatrics & Gynaecology
24-26 September 2012
Hyderabad International Convention Center, India



World Congress on
Personalised Medicine & Molecular Diagnostics
29-31 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



2nd World Congress
Pharmaceutical Regulatory Affairs
23-24 November 2012
Hyderabad International Convention Center, India



OMICS International
Integrative Biology Summit
1-3 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



3th World Congress on
Bioavailability & Bioequivalence:
Pharmaceutical R & D Summit
29-31 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Cosmotology & Cosmotics
23-24 November 2012
Hyderabad International Convention Center, India



International Conference on
Emerging Cell Therapies
1-3 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Computer Aided Drug Design & QSAR
29-31 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Hair Transplantation & Trichology
26-28 November 2012 Hilton San Antonio Airport, USA



Annual Pharmacovigilence & Clinical Trials Conference
1-3 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



World Congress on
Regenerative & Functional Medicine
12-14 November 2012 Hilton San Antonio Airport, USA



World Congress on
Novel Approaches in Anesthesia and Perioperative Care
26-28 November 2012 Hilton San Antonio Airport, USA



International Conference on
Tissue Science & Engineering
1-3 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



2nd World Congress on
Cell Science & Stem Cell Research
12-14 November 2012 Hilton San Antonio Airport, USA



International Conference and Exhibition on
Surgery and Transplantation
26-28 November 2012 Hilton San Antonio Airport, USA



World Congress on
Forensic Research & Technology
15-17 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Clinical Microbiology & Microbial Genomics
12-14 November 2012 Hilton San Antonio Airport, USA



GMP & GCP: USA, Europe, Japan & Asia Pacific
3-5 December 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Biothreat & Biodefense
15-17 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Material Sciences & Engineering
Hilton San Antonio Airport, USA



QC, QA and Validation
3-5 December 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Otolaryngology
15-17 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



Global Biofuels and Bioproduct Summit
19-21 November 2012 Hilton San Antonio Airport, USA



2nd World Congress on
Nanotek and Expo
3-5 December 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Clinical and Cellular Immunology
22-24 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Probiotics
19-21 November 2012 Hilton San Antonio Airport, USA



International Conference on
Obesity & Weight Management
3-5 December 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Genetic Syndromes & Gene Therapy
22-24 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Food Processing and Technology
22-24 November 2012
Hyderabad International Convention Center, India



International Expo and Conference on
Analytrix and HPLC
22-24 October 2012
DoubleTree by Hilton Chicago - Northshore, USA



3rd world Congress on
Analytical & Bioanalytical Techniques
22-24 November 2012
Hyderabad International Convention Center, India

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18:00-19:00	Registrations	19 February 2012

Day 1 20 February 2012

08:00-09:00	Registrations
08:00-08:30	Breakfast at Salon E

OMICS Group Conferences
Accelerating Scientific Discovery

Salons A - D
9:00-9:30

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
	Coffee Break at Grand Ballroom Registration Desk Foyer 10:25-10:40
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
	Lunch Break at Salon E 12:20-13:00

Salons A - D

Track 1-1: Gene Expression and Metabolomic Profiling

Session Introduction

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 pitastatin 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. BaharakKhabazghazvini, 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 m etabolite 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

20:10-20:30 **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

20:30-20:50 **Title: Metabolomics fingerprinting in clinical study of mutiple sclerosis disease**
Ms. Agnieska Smolinska, Radboud University Nijmegen, The Netherlands

Salons G & H

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

Session Introduction

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: Micro array-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

Session Introduction

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 Ouverney, 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

Session Introduction

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 steatohepatitisof Action**
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

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

Dinner at Salon E Sponsored by:
Journal of Proteomics & Bioinformatics 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

09:00-09:20 **Title: Metabolomics data integration in tomato plant-fruit systems biology**
Dr. Rolin Dominqiue, Universite de Bordeaux, UMR, France

09:20-09:40 **Title: MetDisease - A disease-centric view of metabolic networks**
Dr. Alla Karnovsky, University of Michigan, USA

09:40-10:00 **Title: Classification of physiologic/pathologic phenotypes in cell signaling networks: A mathematical approach**
Dr. Guanyu Wang, George Washington University, USA

10:00-10:20 **Title: The Bio-toolkit suite of bioinformatic tools**
Assoc Prof. Martin R. Schiller, University of Nevada Las Vegas, USA

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

10:30-10:50 **Title: Systems biology warehousing: A benchmark of frameworks for effective data integration**
Dr. Thomas Triplet, Concordia University, Canada

10:50-11:10 **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

11:10-11:30 **Title: Modeling biological systems as nonequilibrium relaxation structures by means of the kinetic equation**
Prof. Vladimir Aristov, Dorodnicyn Computing Centre of Russian Academy of Sciences, Russia

11:30-11:50 **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

11:50-12:10 **Title: Automated reconstruction of tissue specific human metabolic networks and its potential impact on personalized medicine**
Dr. Adil Mardinoglu, Chalmers University of Technology, Sweden

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

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

Session Introduction

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

Session Introduction

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

18:10-18:30 **Title: Proteomics and genomics of microorganisms for sequestration of Carbon dioxide for production of biodiesel**
Prof. Indu Shekhar Thakur, Jawaharlal Nehru University, India

18:30-18:50 **Title: Microbiota and metabolic profiles of children with cow's milk protein allergy and celiac disease determined by an "omics" approach**
Dr. Maria De Angelis, University of Bari, Italy

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 andglycolysis**
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 Yousif 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, Columbia

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); It is 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

14:40-15:00 **Title: Promotion of lipid raft mediated learning and memory pathways in mice fed with Acaudina leucoprocta hydrolyzate**
Dr. Yanyan Li, China Pharmaceutical University, China

15:00-15:20 **Title: Antilipolytic effect of proinsulin C-peptide in diabetic rat**
Dr. Ahmad Ghorbani, Neyshabur Faculty of Medical Sciences, Iran

15:20-17:00 B2B / Scientific Partnering Meetings

17:00-19:00 Poster Presentation

Cocktails at San Ramon Sponsored by:
Journal of Computer Science & Systems Biology 19:00-19:30

Day 3 22 February 2012

Salons C & D **Breakfast at Salon E 08:00-08:30**

Track 7: Omics Meets Chemistry and Drug Discovery
Track 8: Synthetic Biological Systems
Track 9: Metabolomics In Systems Biology

Session Introduction

08:40-09:00 **Title: Improved detection via nano microfluidics-based devices and nanodelivery to colon cancer therapy**
Dr. Jagat Kanwar, Deakin University, Australia

09:00-09:20 **Title: Conceptual questions in prophylactic oncology, creation of a preventive anticancerogenic vaccine**
Dr. Levon Mkrtchyan, Academy of Medical Sciences, Republic of Armenia

09:20-09:40 **Title: Role of the CM2 protein in Influenza C virus replication**
Prof. Yasushi Muraki, Kanazawa Medical University School of Medicine, Japan

09:40-10:00 **Title: Novel tool for monitoring nitrite and/ornitric oxide continuously in real time for drug discovery applications**
Dr. James H. Silver, Silver Medical, Inc., USA

10:00-10:20 **Title: Metabolomics in vivo - a tool to detect systemic toxicity in preclinical/ toxicological studies**
Dr. Kamp Hennicke, BASF SE, Germany

Coffee Break at Foyer A - D: 10:20-10:30

10:30-10:50 **Title: Anatomical dissection of metabolic systems of cancer by in vivo high-resolution imaging mass spectrometry**
Prof. Makoto Suematsu, Keio University, Japan

10:50-11:10 **Title: Standardization and metabonomics studies of hydro-ethanolic extract of Piper betel root in nanoparticles**
Mr. Plaban Bhattacharya, University of Calcutta, India

11:10-11:30 **Title: Development and validation of bioanalytical method for the quantitative estimation of duloxetine in human plasma using lcms/ms**
Dr. Shakti Prasad Pattanayak, Birla Institute of Technology, India

11:30-11:50 **Title: A novel metabolic feedback loop triggered by pyruvate kinase controls redox metabolism in respiring cells**
Dr. Markus Ralser, University of Cambridge, United Kingdom

11:50-12:10 **Title: 5-lipoxigenase inhibitor and thyroid hormone analog attenuate global myocardial ischemia reperfusion injury after heterotopic heart transplantation in male rats**
Dr. Najah R. Hadi, Kufa University, Iraq

Lunch Break at San Ramon: 12:10-12:40

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