Scientific Program

International Conference on

Functional and Comparative Genomics & Pharmacogenomics

November 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA



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OMICS Group Conferences
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Day 1 November 12, 2013

08:00-09:00 Registrations

Vienna

OMICS Group Conferences
Accelerating Scientific Discovery

09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-09:55 **Clyde Hutchison**
J. Craig Venter Institute, USA

09:55-10:20 **Roger Hendrix**
University of Pittsburgh, USA

10:20-10:45 **William C. Reinhold**
National Cancer Institute, USA

Coffee Break 10:45-11:00 @ Foyer

Track 1: Genomes & Genomics

Session Chair: Giulio Maria Pasinetti, Icahn School of Medicine at Mount Sinai, USA

Session Introduction

11:00-11:20 A rare mutation of CACNA1C in a patient with Bipolar disorder, and decreased gene expression in brain associated with a Bipolar-associated common SNP of CACNA1C
Elliot S. Gershon, The University of Chicago, USA

11:20-11:40 Genetic polymorphisms associated with high risk to develop dementia in subject with TBI history
Giulio Maria Pasinetti, Icahn School of Medicine at Mount Sinai, USA

11:40-12:00 Brain expression QTLs and GWAS signals of psychiatric diseases
Chunyu Liu, University of Illinois at Chicago, USA

12:00-12:20 Heterogeneity in speech sound disorders: New findings in multigenerational families
Beate Peter, University of Washington, USA

12:20-12:40 Understanding circadian transcriptional rhythms using next-generation sequencing
Michael E Hughes, University of Missouri-St. Louis, USA

Lunch Break 12:40-13:30 @ Athens

13:30-13:50 Genome wide hydroxymethylation tested using the HELP-GT assay shows redistribution in cancer
Sanchari Bhattacharyya, Albert Einstein College of Medicine, USA

13:50-14:10 Investigating mechanisms of genome maintenance through protein and chromatin interactions
Sudha Sharma, Howard University, USA

14:10-14:30 Breast cancer mutations linked to viral infections
Bernard Friedenson, UIC College of Medicine, USA

14:30-14:50 Wnt5a/beta-catenin signaling pathway as a new molecular target for developing therapeutic strategies for keloid
M. Ghazizadeh, Nippon Medical School, Japan

Track 2: Evolutionary Genomics
Track 3: Biomarkers & Molecular Markers
Track 4: Proteomics

Session Chair: Alexander Bolshoy, University of Haifa, Israel

Session Introduction

14:50-15:10 Ranking of prokaryotic genomes to reveal evolutionary factors
Alexander Bolshoy, University of Haifa, Israel

15:10-15:30 Phylogeny of adaptive immunity in jawless vertebrates
Sabyasachi Das, Emory University School of Medicine, USA

15:30-15:50 Genome sequencing reveals a wide variation of recombination events in eukaryote
Dacheng Tian, Nanjing University, China

Coffee Break 15:50-16:05 @ Foyer

16:05-16:25	**Retrotransposons as the key for the evolution of genomic imprinting in mammals** **Shunsuke Suzuki,** Shinshu University, Japan
16:25-16:45	**Evolutionary dynamics of human autoimmune disease genes and malfunctioned immunological genes** **Soumita Podder,** Bose Institute, India
16:45-17:05	**Receptor tyrosine kinases fall into distinct classes based on their inferred signaling networks** **Alejandro Wolf-Yadlin,** University of Washington, USA
17:05-17:25	**Epithelial-mesenchymal transition (EMT) linked with stem-cell properties** **Yasuo Iwadate,** Chiba University, Japan
17:25-17:45	**Genomic determinants of congenital mental retardation assorted through linkage analysis with STR markers in consanguineous families** **Muhammad Yasir Zahoor,** University of Veterinary & Animal Sciences, Pakistan
18:30-19:30	Cocktails Sponsored by **Journal of Data Mining in Genomics & Proteomics @ Athens**

Day 2 November 13, 2013

Vienna

Track 5: Functional & Comparative Genomics

Session Chair: Gil Atzmon, Albert Einstein College of Medicine, USA
Session Co-Chair: Gary A. Bulla, Eastern Illinois University, USA

Session Introduction

09:00-09:20	**ENCODE recombination and longevity** **Gil Atzmon,** Albert Einstein College of Medicine, USA
09:20-09:40	**Mapping genetic networks that dictate the mammalian liver phenotype using whole genome microarrays** **Gary A. Bulla,** Eastern Illinois University, USA
09:40-10:00	**Functional screening identifies Siah2 as a novel circadian clockwork ubiquitin ligase** **Jason P. DeBruyne,** Morehouse School of Medicine, USA
10:00-10:20	**Deep sequencing plant defense responses** **Vincent Klink,** Mississippi State University, USA
Coffee Break 10:20-10:35 @ Foyer	
10:35-10:55	**Functional consequences of genomic abnormalities** **Evica Rajcan-Separovic,** University of British Columbia, Canada
10:55-11:15	**Evolutionary studies of some species belonging to Leguminosae family based on rbcl gene** **Sagar Patel,** Sardar Patel University, India
11:15-11:35	***Olea europaea* (olive) leaf extract alters miRNA expression in GBM cell lines and GBM stem cells** **Gulcin Tezcan,** Uludag University, Turkey

Track 6: Pharmacogenomics
Track 7: Genome Sequencing & Mapping

Session Chair: Jatinder Lamba, University of Minnesota, USA

Session Introduction

11:35-11:55	**Cancer pharmacogenomics: Discovery science and translational science** **Liewei Wang,** Mayo Clinic, Rochester, USA
11:55-12:15	**Pharmacogenomics of breast cancer endocrine therapy** **Richard Weinshilboum,** Mayo Clinic, Rochester, USA
12:15-12:35	**Pharmacogenomics of AML: A road towards personalized medicine** **Jatinder Lamba,** University of Minnesota, USA
Lunch Break 12:35-13:25 @ Athens	
13:25-13:45	**FADS polymorphisms and plasma levels of omega-3 fatty acids** **Michael H. Davidson,** University of Chicago, USA
13:45-14:05	**Whole-genome and epigenome sequencing identified novel Epstein–Barr virus-associated functional mutations and epigenetic gene silencing in gastric cancer** **Qiaoyi Liang,** The Chinese University of Hong Kong, Hong Kong
14:05-16:05	**Workshop on Legal, legislative, regulatory and reimbursement issues of genomics in personalized medicine** **Christina Chamberlain,** Chamberlain Legal Services, USA
Coffee Break 16:05-16:20 @ Foyer	
16:20-17:20	**Poster Presentations @ Athens**
18:30-19:30	Cocktails Sponsored by **Journal of Pharmacogenomics & Pharmacoproteomics @ Athens**

Day 3 November 14, 2013

Vienna

Track 8: Bioinformatics in Genomics & Proteomics

Session Chair: William C. Reinhold, National Cancer Institute, USA

Session Co-Chair: Luciano Brocchieri, University of Florida, USA

Session Introduction

09:00-09:20	**Current and up-coming analysis tools for the NCI-60 in CellMiner: Resources for data integration and systems pharmacology** **William C. Reinhold,** National Cancer Institute, USA
09:20-09:40	**Algorithm of ancestral gene lengths reconstruction** **Alexander Bolshoy,** University of Haifa, Israel
09:40-10:00	**Quantitative frame analysis and gene discovery in prokaryote genomes** **Luciano Brocchieri,** University of Florida, USA
10:00-10:20	**Matrix algorithms for genome evolution (MAGE)** **Alexei Fedorov,** University of Toledo, USA

Coffee Break 10:20-10:35 @ Foyer

10:35-10:55	**From genomics to spatio-temporal organization of cellular processes: What can confocal microscopy tell us about the mechanism of DNA repair and formation of chromosomal translocations?** **Martin Falk,** Academy of Sciences of CR, Czech Republic
10:55-11:15	**Enabling drug discovery in the cloud with comparative genomics** **Gerald J. Wyckoff,** University of Missouri-Kansas City, USA
11:15-11:35	**Utilizing functional genomics and systems biology to understand perinatal lung maturation and associated diseases** **Yan Xu,** University of Cincinnati, USA
11:35-11:55	**LYNX-a systems biology platform for integrative medicine** **Natalia Maltsev,** The University of Chicago, USA
11:55-12:15	**GSV/mGSV: Web-based genome synteny visualization tools for customized data** **Qunfeng Dong,** University of North Texas, USA
12:15-12:35	**Ensemble regulation of large gene systems** **Istvan Ladunga,** University of Nebraska-Lincoln, USA

Lunch Break 12:35-13:25 @ Athens

Track 9: Plant & Ecological Genomics
Track 10: Future Aspects & Emerging Fields

Session Chair: Ning-Sun Yang, Academia Sinica, Taiwan

Session Introduction

13:25-13:45	**The Inflammation-modulatory networking activities of medicinal phytochemicals: Revealed by omics studies** **Ning-Sun Yang,** Academia Sinica, Taiwan
13:45-14:05	**Highly rearranged and size-variable chloroplast genomes in conifer II clade (cupressophytes): Selection toward shorter intergenic spacers** **Shu-Miaw Chaw,** Academia Sinica, Taiwan
14:05-14:25	**Cloning and expression profiling of polycomb gene, Retinoblastomarelated (RBR) from tomato *Solanum lycopersicum L.*** **Zainab M. Almutairi,** Salman bin Abdulaziz University, Saudi Arabia
14:25-14:45	**The relationship between polymorphisms of ADRB2 gene and wheezing illness in 0-5 years children** **Hai-Hao Su,** Guangdong Women and Children's Hospital, China
14:45-15:05	**Identification of hot-spot regions of N-type Ca2+ channel receptor by its homology model and molecular dynamics based blocker design** **C. Gopi Mohan,** Amrita Vishwa Vidyapeetham University, India

Award Ceremony

Coffee Break 15:05-15:20 @ Foyer

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2nd International Conference on
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