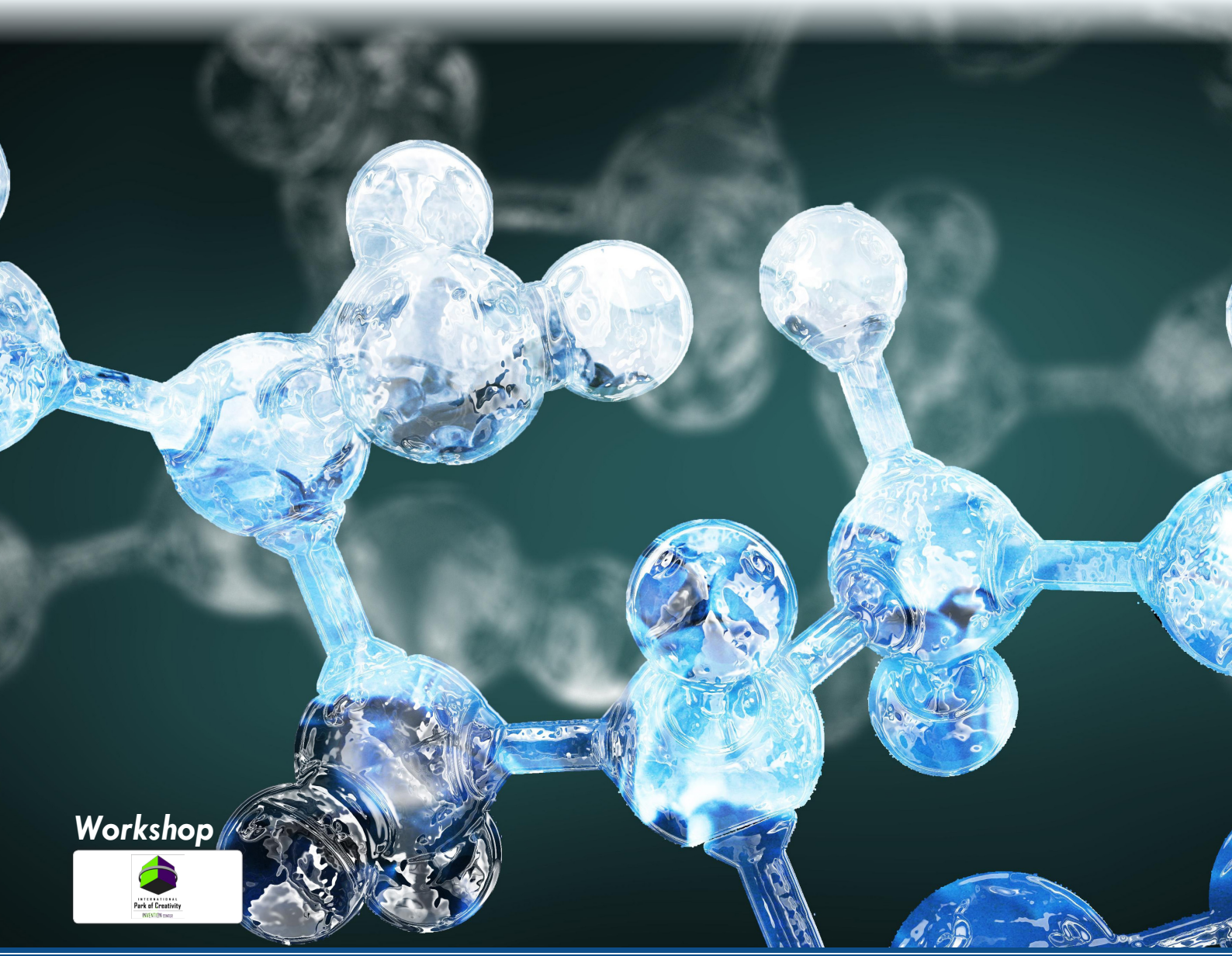
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

International Conference on
Integrative Biology Summit

August 05-06, 2013 Embassy Suites Las Vegas, NV, USA



Workshop

"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Email: *integrativebiology2013@omicsgroup.co*

Day 1 August 05, 2013

07:30-08:30 Registrations

Flamingo 2

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-09:00 **Opening Ceremony**

Keynote Forum

09:00-09:05 Introduction

09:05-09:30 **Frederic Pro**
Simon Fraser University, Canada

09:30-09:55 **Raul Cuero**
International Park of Creativity Invention Center, USA

09:55-10:20 **David S. Holmes**
Center for Bioinformatics and Genome Biology, Chile

10:20-10:45 **Sheng-He Huang**
University of Southern California, USA

Coffee Break 10:45-11:05 @ Atrium

Group Photo

Track 10: Genomics

Session Chair: Dan Ophir, Ariel University, Israeli
Session Co-Chair: Wenqi Ran, National Institute of Health, USA

Session Introduction

11:05-11:25 Title: Selection on codon usage and amino acid sequences in prokaryotes
Wenqi Ran, National Institute of Health, USA

11:25-11:45 Title: Alzheimer: Prodution of beta amyloid
Diana M Vasquez, International Park of Creativity, USA-Colombia

11:45-12:05 Title: Role of epigenetics in the HIF pathway and novel therapeutic opportunities
Mridul Mukherji, University of Missouri, USA

12:05-12:25 Title: An analysis of palindromes and n-nary tracts' frequencies applied in a genomic sequence
Dan Ophir, Ariel University, Israel

12:25-12:45 Title: Astrogenomics: A convergence of disciplines spawning inspiration
David S. Holmes, Center for Bioinformatics and Genome Biology, Chile

Felicitation to OCM's and EB Members

Lunch Break 12:45-13:30 @ Atrium

Track 1: Recent Advancements in Integrative Biology

Session Chair: Jeffrey Zheng, Yunnan University, China

13:30-13:50 Title: DNA sensors for predicting diabetes: A synthetic biology approach
Raul Cuero, International Park of Creativity Invention Center, USA-Colombia

13:50-14:10 Title: A new novelty detector for finding abnormal beats in ECG recordings
Fayyaz ul Amir, Colorado State University, USA

14:10-14:30 Title: Detecting symmetric properties of genomes based on 2D maps of variant phase space
Jeffrey Zheng, Yunnan University, China

14:30-14:50 Title: Secondary metabolites production: Use of integrative biology
Natalia Gutierrez Calle, International Park of Creativity, USA-Colombia

14:50-15:10 Title: The power of next generation sequencing and cancer
Shashi Bala, The Wistar Institute, USA

15:10-15:30 Title: Novel development of biological foam
Gabriela Melo Rodriguez, International Park of Creativity, USA

Coffee Break 15:30-15:50 @ Atrium

Track 2: Bioinformatics
Track 3: Bio-Systems Engineering

Session Chair: Frederic Pio, Simon Fraser University, Canada
Session Co-Chair: Masato Sone, Tokyo Institute of Technology, Japan

Session Introduction

15:50-16:10 **Title: Detecting and understanding combinatorial mutation patterns responsible for HIV drug resistance**
Jing Zhang, Yale University, USA

16:10-16:30 **Title: Integrating structural bioinformatics and functional genomics to identify and characterize novel protein involved in cell death and viral immunity**
Frederic Pio, Simon Fraser University, Canada

16:30-16:50 **Title: Deconvolving taxonomic contributions to observed differences in the microbiome of COPD patient groups**
Cavan Reilly, University of Minnesota, USA

16:50-17:10 **Title: SM2PH-Central: An integrative knowledge base to investigate the genotype to phenotype relationships involved in human genetic diseases**
Hoan Nguyen, Institut de Genetique et de Biologie Moleculaire et Cellulaire, France

17:10-17:30 **Title: Extremophile Dormancy: Using targeted metagenomics to identify microbial community composition in hypersaline and freshwater lakes**
Joshua C. Vert, Brigham Young University, USA

17:30-17:50 **Title: Application of supercritical carbon dioxide into 3D integration of metal oxide/metal on polymer for biosensor and bioelectronics**
Masato Sone, Tokyo Institute of Technology, Japan

17:50-18:10 **Title: A comparative study of gene similarity measures**
Anurag Nagar, Southern Methodist University, USA

18:10-18:30 ***In silico* antimalarial drug designining**
Shailima Vardhini, St. Marys College, India

18:30-19:30 Cocktails: Sponsored by **Journal of Computer Science & Systems Biology @ Atrium**

Day 2 August 06, 2013

Flamingo 2

9:00-10:00 Workshop: How to Effectively Implement Integrative Biology, Using Synthetic Biology

Track 4: Transcriptomics
Track 5: New tools for Computational Biology
Track 6: Proteomic Technology

Session Chair: Samad Jahandideh, Sanford-Burnham Medical Research institute, USA
Session Co-Chair: Co-Chair: Jiaqian Wu, University of Texas Medical School, USA

Session Introduction

10:00-10:20 **Title: A systematic approach to investigate the predicted effect of nonsynonymous SNPs in the human prion protein gene: A molecular modeling and molecular dynamics study**
Samad Jahandideh, Sanford-Burnham Medical Research institute, USA

10:20-10:40 **Title: RNA-Seq characterization of spinal cord injury transcriptome: A resource for understanding the pathology at the systems level**
Jiaqian Wu, University of Texas Medical School, USA

Coffee Break 10:40-10:55 @ Atrium

10:55-11:15 **Title: PCR without heat: Enhancement of DNA function**
Mariana Sanchez, International Park of creativity, USA-Colombia

11:15-11:35 **Title: Multi-null hypotheses method as an expert knowledge generator for AI-based detection of selection operating at molecular level**
Krzysztof A. Cyran, Silesian University of Technology, USA

11:35-11:55 **Title: Softcomputing in bionformatics inference system design and optimization**
Tomas Arredondo, Universidad Tecnica Federico Santa Maria, Chile

Track 7: Clinical Data Analysis
Track 9: Cell and Regulatory Biology
Track 11: Systems Biology

Session Chair: David S. Holmes, Center for Bioinformatics and Genome Biology, Chile
Session Co-Chair: Sheng-He Huang, University of Southern California, USA

Session Introduction

11:55-12:15 **Title: Computational analyses of transcriptomic data reveal the dynamic organization of the E.coli chromosome under different conditions**
Qin Ma, University of Georgia, USA

12:15-12:35 **Title: DNA transfer between the chloroplast, mitochondrion and nucleus**
Jalal A. Aliyev, Azerbaijan National Academy of Sciences, Azerbaijan

Lunch Break 12:35 -13:20 @ Atrium

13:20-14:05 Poster Presentation @ Riviera

14:05-14:25 **Title: Clonogenic multiple myeloma cells have shared stemness signature associated with patient survival**
Renji Reghunathan, National University Health System, Singapore

14:25-14:45 **Title: Reconstruction of metabolic networks from in silico labeled substrates**
Noushin Hadadi, Ecole Polytechnique Federal de Lausanne, Switzerland

14:45-15:05 **Title: Quantum sensor for petroleum detection**
Jennifer Russi, International Park of creativity, USA-Colombia

15:05-15:25 **Title: Towards biofuels tolerant photosynthetic cyanobacteria using integrated OMICS approaches**
Weiwen Zhang, Tianjin University, China

Award Ceremony

Coffee Break 15:25-15:40 @ Atrium

18:00-19:00 Cocktails: Sponsored by **Journal of Datamining in Genomics & Proteoimcs**

OMICS Group Upcoming Conferences

Pharmaceutical/Chemistry

2nd International Conference and Exhibition on **Biowaivers & Biosimilars**
September 23-25, 2013 Hilton Raleigh-Durham Airport at RTP, NC, USA

International Conference and Exhibition on **Biochemical & Molecular Engineering**
October 07-09, 2013 Hilton San Antonio Airport, TX, USA

2nd International Conference on **Medicinal Chemistry & Computer Aided Drug Designing**
October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

4th International Conference and Exhibition on **Analytical & Bioanalytical Techniques**
October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

3rd International Conference on **Pharmaceutical Regulatory Affairs**
October 21-23, 2013 DoubleTree by Hilton Hotel San Francisco Airport, CA, USA

International Conference & Exhibition on **Pharmacognosy, Phytochemistry & Natural Products**
October 21-23, 2013 Radisson Blu Plaza Hotel, Hyderabad, India

2nd International Summit on **GMP, GCP & Quality Control**
November 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

International Summit on **Clinical Pharmacy & Dispensing**
November 18-20, 2013 Hilton San Antonio Airport, TX, USA

World Congress on **Petrochemistry and Chemical Engineering**
November 18-20, 2013 Hilton San Antonio Airport, TX, USA

Medical Sciences

4th World Congress on **Diabetes & Metabolism**
August 14-16, 2013 Holiday Inn Chicago-Northshore, IL, USA

2nd International Conference and Exhibition on **Orthopedics & Rheumatology**
August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

World Congress on **Endocrinology**
August 26-28, 2013 DoubleTree by Hilton, Raleigh, NC, USA

2nd International Conference on **Tissue Science & Regenerative Medicine**
August 26-28, 2013 DoubleTree by Hilton, Raleigh, NC, USA

2nd International Conference on **Surgery & Anesthesia**
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Conference on **Hematology & Blood Disorders**
September 23-25, 2013 Hilton Raleigh-Durham Airport at RTP, NC, USA

International Conference on **Psychology, Autism and Alzheimer's Disease**
September 30-October 01, 2013 Hilton San Antonio Airport, TX, USA

2nd International Summit on **Toxicology**
October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

3rd World Congress on **Cancer Science & Therapy**
October 21-23, 2013 DoubleTree by Hilton Hotel San Francisco Airport, CA, USA

2nd International Conference and Exhibition on **Cell & Gene Therapy**
October 23-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on **HIV/AIDS, STDs & STIs**
October 24-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference and Exhibition on **Cosmetology & Trichology**
November 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

3rd World Congress on **Virology**
November 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

3rd International Conference on **Cell Science & Stem Cell Research**
November 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

2nd International Conference and Exhibition on **Obesity & Weight Management**
December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Conference and Exhibition on **Traditional & Alternative Medicine**
December 09-11, 2013 Radisson Blu Plaza Hotel, Hyderabad, India

Omics

International Conference on **Omics Studies**
September 04-06, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on **Functional and Comparative Genomics & Pharmacogenomics**
November 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

Clinical

International Conference on **Dental & Oral Health Care**
August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

International Conference and Exhibition on **Physical Medicine & Rehabilitation**
August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference on **Clinical Microbiology & Microbial Genomics**
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on **Clinical & Cellular Immunology**
October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Conference on **Nursing & Emergency Medicine**
December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

Engineering & Applied Sciences

International Conference on **Radiology & Imaging**
August 14-16, 2013 Holiday Inn Chicago-Northshore, IL, USA

International Conference and Exhibition on **Mechanical & Aerospace Engineering**
September 30-October 02, 2013 Hilton San Antonio Airport, TX, USA

International Conference and Exhibition on **Lasers, Optics & Photonics**
October 07-09, 2013 Hilton San Antonio Airport, TX, USA

2nd International Conference and Exhibition on **Materials Science & Engineering**
October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on **Forensic Research & Technology**
October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

3rd International Conference on **Nanotek & Expo**
December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

Life Sciences & Environmental

2nd International Conference on **Biodiversity & Sustainable Energy Development**
August 12-14, 2013 DoubleTree by Hilton, Raleigh, NC, USA

International Conference on **Genetic Engineering & Genetically Modified Organisms**
August 12-14, 2013 DoubleTree by Hilton, Raleigh, NC, USA

International Conference on **Epidemiology and Evolutionary Genetics**
August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on **Oceanography**
August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference on **Biodefense & Natural Disasters**
August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference on **Hydrology & Groundwater Expo**
August 26-27, 2013 DoubleTree by Hilton, Raleigh, NC, USA

International Symposia on **Entomology**
September 04-06, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

4th World Congress on **Biotechnology**
September 23-25, 2013 Hilton Raleigh-Durham Airport at RTP, NC, USA

2nd International Conference and Exhibition on **Probiotics & Functional Foods**
October 23-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference and Exhibition on **Food Processing & Technology**
October 28-30, 2013 Kansas City Marriott Country Club Plaza, USA

International Conference on **Fermentation Technology, Bioprocess & Cell Culture**
October 28-30, 2013 Kansas City Marriott Country Club Plaza, USA

International Congress on **Bacteriology & Infectious Diseases**
November 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

2nd International Conference on **Agricultural & Horticultural Sciences**
February 03-05, 2014 Radisson Blu Plaza Hotel, Hyderabad, India

Bookmark your dates

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August 04-06, 2014 Chicago, USA

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