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2nd International Conference on

Enzymology and Molecular Biology

Theme:

Enzymology: Exemplifying the Prominence of Enzymology among Interdisciplinary Sciences

Dates:

March 20-21, 2017

Venue:

Holiday Inn Aurelia, Rome, Italy

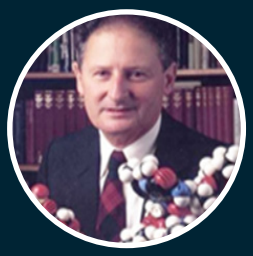
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ADVANCED BIOFUELS USA



Welcome Message

It is a pleasure and privilege to welcome all the participants of the International Conference on Enzymology & Molecular Biology, which is to be held in March 20-21, 2017 at the capital city of Rome, Italy.

I regret not be able to attend and to participate in this International Conference on Enzymology & Molecular Biology having been invited elsewhere to attend a different meeting going on at the same time.

Of course, we all are aware of the wealth of three-dimensional structural information of proteins and nucleic acids available by X-ray crystallography, and more recently by computer assisted image reconstruction techniques to analyze images in random orientations obtained from low-temperature electron-microscopy.

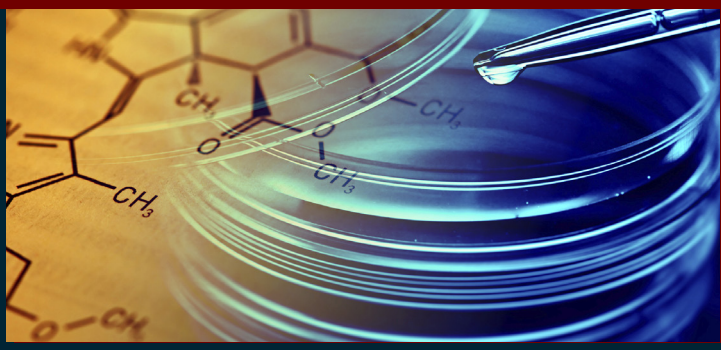
What is missing from these studies however is an understanding of the dynamical nature of these macromolecular structures, which lead to the necessary allosteric conformational-changes to carry out their biological activity.

I have recently proposed the existence of (what I have called) premeltons in DNA these being examples of (what are known as) breather-solitons in DNA. The existence of premeltons in DNA explains how drugs and dyes intercalate into DNA. In addition, the centers of premeltons are predicted to nucleate DNA melting and therefore it comes as no surprise that the centers of premeltons signal the beginning and ends of genes!

This realization suggests an allosteric mechanism to understand how the RNA polymerase binds to and melts the promoter, how it is able to move along DNA while synthesizing RNA, and how transcription ends at the terminator. You will undoubtedly hear more about this at future meetings.

I hope you enjoy this International Conference on Enzymology & Molecular Biology, Have a wonderful time!

Henry M. Sobell
Professor of Chemistry and Molecular Biophysics
University of Rochester
Rochester, NY USA



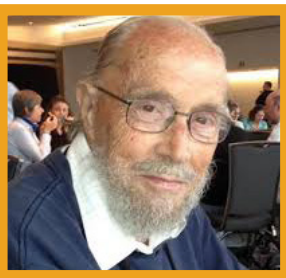
Conference Highlights

- Enzymology & Biochemistry
- Enzyme Kinetics
- Clinical Enzymology
- Recombinant DNA Technology
- Epigenetics
- Structural Enzymology
- Molecular Enzymology
- Enzymology in Drug Discovery
- Computational Enzymology
- Industrial Applications of Enzymology
- Enzymology & Thermodynamics
- Industrial fermentation processes for enzymes
- Enzymology in Food Processing & Technology

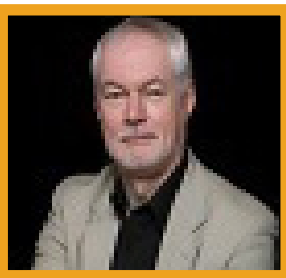
This year, we'll host the event in beautiful city Rome at the Holiday Inn Rome Aurelia, Italy.



Organizing Committee Members



Theo Hofmann
University of Toronto, Canada



David Mousdale
Beocarta Ltd. , U.K



Carla Emiliani
University of Perugia, Italy



Takashi Yonetani
University of Pennsylvania
USA



Simone Weyand
University of Cambridge, U.K



Giuseppe Manfroni
University of Perugia
Italy



Amnon Kohen
The University of Iowa
United States



Christopher Ibenegbu
University of Bath
United Kingdom



Jennifer Littlechild
University of Exeter
England



Enzymology 2017 Associates

Collaborators @ Enzymology 2017

ESCMID EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

instruct Integrating Biology

TBD

Meet our Exhibitor — *Enzymology 2017*

BioLogic Science Instruments

and others.....





Enzymology 2017

Keynote Speech on

"Inhibition of Protein Tyrosine Phosphatase-1B in Vitro and in Vivo"

Marvin W. Makinen
Professor
The University of Chicago, USA



Enzymology 2017

Keynote Presentation on

Developing the Bioeconomy: Fast track discovery of new enzymes for efficient and value added biomass conversion

Dr. Lene Lange
Professor
DTU Chemical Engineering, Denmark



Enzymology 2017

Keynote Speech on

The Endocannabinoid Deactivating Enzymes as Therapeutic Targets

Alexandros Makriyannis
George D. Behrakis Endowed Chair
Northeastern University
USA



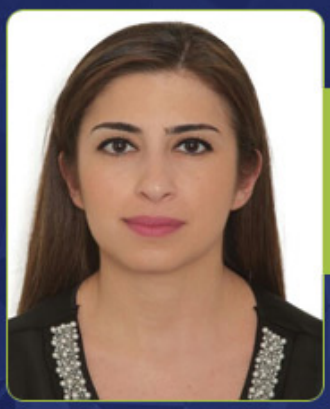
ENZYMOLOGY 2017

Keynote Presentation on:

Structure-guided design of selective matrix metalloproteinase (MMP) inhibitors and their application in animal models of multiple sclerosis sepsis, and osteoarthritis

Dr. Gregg B. Fields
Chair in the Department of Chemistry & Biochemistry
Florida Atlantic University, USA





Enzymology 2017

Special Session on:

The Extraribosomal Role of Ribsomal Proteins

Zeina Nasr
Faculty of Sciences
University of Balamand

Glimpses of Previous Conferences













Glimpses of Previous Conferences



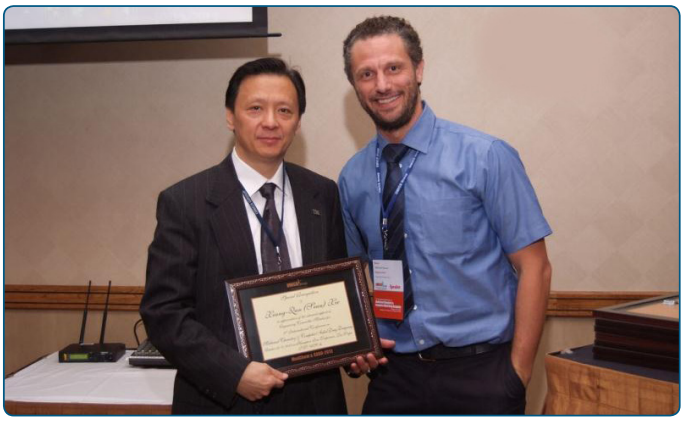
















Best Tourist Destinations in Rome, Italy

Basilica of St. John Lateran



castel-sant-angelo-in-the-dark



Colosseum



Palatine.Hill.original.28138



Pantheon



Piazza Navona



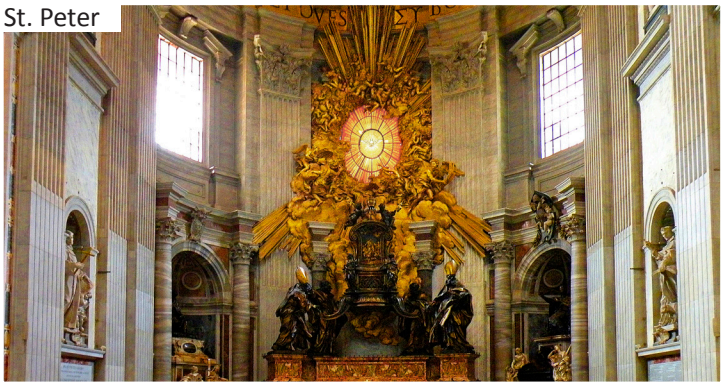
Roman Forum



Sistine Chapel



St. Peter



Vatican Museum





The field of Enzymology is growing rapidly and its development is making tremendous impacts in cancer enzymology, clinical enzymology, Biomass & Biofuels, Industrial fermentation processes, pharmaceutical industry, Computational Enzymology and biochemical disorders. The importance and significance can be gauged by the fact that it has made huge advancements over the course of time and is continuing to influence various sectors.

Enzymology 2017

- *Opportunity to attend the presentations delivered by eminent scientists from all over the world*
- *Selected contributions will be published in following OMICS Group Journals*
  - *Journal of Proteomics & Bioinformatics*
  - *Journal of Pharmacogenomics & Pharmacoproteomics*
  - *Journal of Data Mining in Genomics & Proteomics*
  - *Journal of Biomedical Data Mining*
- *Participation in sessions on specific topics on which the conference is expected to achieve progress*
- *Global networking: In transferring and exchanging Ideas*
- *Conference brings together Scientific Researchers, Industrialist and delegates*

Contact Details

Nova Adams
Program Manager
Enzymology 2017
Phone: +1-702-508-5200 Ext:8033
enzymology@conferenceseries.net

Venue

Holiday Inn Rome Aurelia
Via Aurelia, Km 8.400
00165 Rome, Italy



conferenceseries.com 489th Conference

Scientific Program

5th International Conference and Exhibition on Metabolomics

Osaka, Japan May 16-18, 2016



Conference Secretariat
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
Email: worldmetabolomics@conferenceseries.net

Registrations

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Opening Ceremony

Keynote Forum

Title: ^{18}O-assisted ^{31}P NMR and mass spectrometry: From phosphometabolomics to fluxomics
Petras Dzeja, Metabolomics NMRS Core, Mayo Clinic, USA

Title: Diet, amino acids profile, and diabetes risk
Lu Qi, Tulane University, USA

Group Photo

Networking and Refreshments Break@ Foyer

Session Introduction

Track 1: Metabolomic Profilingi
Track 2: Clinical Metabolomics & Lipidomics
Track 3: Cancer Therapeutic Approaches

Session Chair: Petras Dzeja, Metabolomics NMRS Core, Mayo Clinic, USA
Session Co-Chair: Björn Riefke, Bayer Pharma AG, Germany

Title: Metabolic and epigenetic alterations in patients with Alzheimer's disease
Eugenia Trushina, Mayo Clinic College of Medicine, USA

Title: Fucoidan inhibitory function in cancer in vivo and in vitro: Role in the development of human anti-cancer therapeutic intervention
Hsien-Yeh Hsu, National Yang-Ming University, Taiwan

Title: Interference with glutamine metabolism: A novel approach for treatment of acute myeloid leukemia
Ashkan Emadi, University of Maryland School of Medicine, USA

Title: Myc induces expression of glutamine synthetase through promoter demethylation
I-Chen Peng, National Cheng Kung University, Taiwan

Title: Slow-MAS NMR Metabolomics
Jian Zhi Hu, Pacific Northwest National Laboratory, USA

Lunch Break@ Salon Panoroma

Title: Prevention of metabolite change due to enzymatic post-sample activity using heat based enzyme inactivation
Mats Borén, Denator, Sweden

Title: Clinical metabonomics for biomarker discovery of malignant pleural effusions (MPE)
Ching-wan Lam, The University of Hong Kong, Hong Kong

Title: Mass spectrometry-based metabolomics reveals that serum lysophospholipids are associated with incident type 2 diabetes
Yonghai Lu, National University of Singapore, Singapore

Special Session

Title: Metabolomics in neuroscience: Old tools for new models and new tools for old models
Andrea Armirotti, Istituto Italiano di Tecnologia, Italy

Networking and Refreshments Break@ Foyer

Track 10: Plant & Environmental Metabolomics
Track 13: Food & Nutritional Metabolomics

Session Chair: Ching-wan Lam, The University of Hong Kong, Hong Kong

Session Co-Chair: Yongyu Zhang, Shanghai University of Traditional Chinese Medicine, China

Title: ERRα induces mitochondrial glutaminase expression guiding anaplerosis upon osteogenic differentiation of mesenchymal stem cells

Min Guan, Chinese Academy of Sciences, China

Title: Urine metabolomics study on unilateral ureteral obstruction induced renal fibrosis in rats and intervention effects of total aglycone extracts of Scutellaria baicalensis

Yongyu Zhang, Shanghai University of Traditional Chinese Medicine, China

Title: Serum lipid alterations identified in chronic Hepatitis b, Hepatitis b virus-related cirrhosis and carcinoma patients

Tao Wu, Shanghai University of Traditional Chinese Medicine, China

Title: Metabolism alterations in aggressive lymphomas

Pier Paolo Piccaluga, Bologna University School of Medicine, Italy

Title: The correlation of polar lipids changes with TAG accumulation under nitrogen deprivation in Nannochloropsis oceanica based on lipidomics

Song Xue, Dalian Institute of Chemical Physics-CAS, China

Panel Discussion

Day 2 May 17, 2016

RUBY

Keynote Forum

Title: Plasma metabolic profiles are associated with habitual dietary patterns

Choon Nam ONG, National University of Singapore, Singapore

Title: NMR Metabolomics Studies of Mice Exposed to Ionizing Radiation

Jian Zhi Hu, Pacific Northwest National Laboratory, USA

Track 11: Metabolic Syndrome

Track 12: Metabolomics in Precision Medicine

Session Chair: Robert Plumb, Imperial College London, UK

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

Title: Biomarker Discovery in Cardiovascular Disease and role of LC/MS

Jose Castro-Perez, Waters Corp, USA

Title: Metabolomic study on the different responses to simvastatin therapy in normal and antibiotic-treated mice

Houkai Li, Shanghai University of Traditional Chinese Medicine, China

Title: Understanding human health and disease with LC/MS based metabolic phenotyping

Robert Plumb, Imperial College London, UK

Title: Treatment of natural plants on diabetes and metabolic syndrome

Jingxin Zhou, Beijing University of Chinese Medicine, China

Networking and Refreshments Break@ Foyer

Special Session

Title: Two cases of the serious dementia improved dramatically by placing denture

Yoshiro Fujii, Shin Kobe Dental Clinic, Japan

Poster Presentations 12:30-13:30

Title: Elevation in liver function marker (alanine aminotransferase) and plasma metabolites with aging
Minjoo Kim, Yonsei University, Korea
Title: Fenofibrate regulates cell energy metabolism by restricting hypoxia-induced factor expression in human glioma cells
Wan-Rou Shih, Central Taiwan University of Science and Technology, Taiwan
Title: Augmentation in LDL-cholesterol with aging leads to oxidative stress and disturb sphingolipid metabolism
Miso Kang, Yonsei University, Korea
Title: Urine metabolomics revealed complex pesticide exposure in farmers in Chinese
Yan-xin Zhang, Harbin Institute of Technology, China
Title: Ferrous glycinate reverses epithelial mesenchymal transition and drug resistance to BCNU by suppression of hypoxia-induced factor in human U87 glioma cells
Yu-Syuan Lin, Taipei Medical University, Taiwan
Title: Combining in vitro and in silico techniques: a complex case of metabolite structural assignment
Minkyung Kim, Yonsei University, Korea
Title: Development of quantitative analytical method using liquid chromatography-tandem mass spectrometry for the trytophan and its metabolites in serum and gastric juice to discovery biomakers for the diagnosis of gastric cancer
Byung Hwa Jung, Korea Institute of Science and Technology, Republic of Korea
Title: Comparison of three mobile phase with liquid chromatography/time-of-flight mass spectrometry (LC/TOF-MS) for urine metabonomics analysis
Pan Zou, Harbin Institute of Technology, China
Title: Ferrous glycinate regulates cell energy metabolism via suppression of hypoxia-induced factor in human A549 cells
Jhong-Huei Jheng, Taipei Medical University, Taiwan
Title: Development of galectin-12 siRNA to defeat metabolic disorders
Yen-Ju Lin, Industrial Technology Research Institute, Taiwan
Title Brain metabolic change in the dorsolateral prefrontal cortex and its correlation with anxiety levels in patients with generalized anxiety disorder: 1H-MR spectroscopy
Gwang-Woo Jeong, Chonnam National University Hospital, Republic of Korea
Title: Skin metabolomics approach for the development of biomarkers in psoriatic disease
Ewelina P Dutkiewicz, National Chiao Tung University, Taiwan
Title: Platelet activation markers overexpressed specifically in aspirin-exacerbated respiratory disease
Chihiro Mitsui, Sagamihara National Hospital Clinical Research Center, Sagamihara, Japan

Lunch Break@ Salon Panoroma

Track 14: Frontiers of Metabolomics Research
Track 16: Therapeutic Metabolomics
Track 18: Transcriptomics & Metabolic pathways

Session Chair: Andrea Armirotti, Istituto Italiano di Tecnologia, Italy
Session Co-chair: Horng-Mo Lee, Taipei Medical University, Taiwan

Title: Metabolomic biomarkers for amyotrophic lateral sclerosis (ALS) in patients and animal models of ALS
Loeffler Jean Philippe, Université de Strasbourg, France
Title: Comparative assessment of phenolic compounds and antioxidant properties related to the harvest times from the leaves of Korean barley (Hordeum vulgare L.) cultivars
Woo Duck Seo, National Institute of Crop Science, Republic of Korea
Title: Crosstalk between the circadian clock and cancer metabolism reveals novel anticancer strategies
Benedetto Grimaldi, Istituto Italiano di Tecnologia, Italy
Title: Ferrous glycinate reverses Warburg effect and regulates cell energy metabolism via suppression of hypoxia-induced factor in human lung adenocarcinoma A549 cells
Horng-Mo Lee, Taipei Medical University, Taiwan
Title: NMR-based metabolomics analysis of 2D with 3D (Spheroids) of breast cancer cells
Björn Riefke, Bayer Pharma AG, Germany

Networking and Refreshments Break@ Foyer

Special Session

Title:Translational Research in Targeting Glucose or Glutamine Dependency in Solid and Hematologic Neoplasms
Ashkan Emadi, University of Maryland School of Medicine, USA

Day 3 May 18, 2016

RUBY

Track 17: Analytical Platforms in Metabolomics
Track 19: Data Analysis & Systems Biology

Session Chair: Andrea Armirotti, Istituto Italiano di Tecnologia, Italy
Session Co-Chair: Takeshi Kimura, Ajinomoto Co., Inc., Japan

Title: Molecular Mechanism for modulationof a multiple transcriptionfactorcomplexformed on enhancer site upon phosphorylation
Kazuhiro Ogata, Yokohama City University Graduate School of Medicine, Japan
Title: Development and commercialization of a plasma amino acid based risk diagnosis service
Takeshi Kimura, Ajinomoto Co., Inc., Japan
Title: Studying Conformational Changes on GDP and GTP Binding with a Novel Visualization Platform
Darby Tien-Hao Chang, National Cheng Kung University, Taiwan
Title: Using chlorophyll as gamma absorber generated from uranium coated weapons to protect Iraqi children from cancer
Jaleel Kareem Ahmed, Babylon University, Iraq

Networking and Refreshments Break@ Foyer

Title: Recent advancements in Mendelian genomics and data management at the Yale Center for Genome Analysis
Shrikant Mane, Yale University School of Medicine, USA
Title: ERRα induces mitochondrial glutaminase expression guiding anaplerosis upon osteogenic differentiation of mesenchymal stem cells
Min Guan, Chinese Academy of Sciences, China
Title: Development and mining of a volatile organic compound database
Md. Altaf-Ul-Amin, Nara Institute of Science and Technology, Japan
Title: Detection of Bt protein metabolites presence in insect and their predator transferred through GM rice using ELISA technique
Zunnu Raen Akhtar, University of Agriculture Faisalabad, Pakistan

Lunch Break @ Salon Panoroma

Awards and Closing Ceremony

Scientific Program

International Conference on

Protein Engineering

October 26-28, 2015 Chicago, USA



OMICS International Conferences:

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA Ph: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

Email: proteinengineering@conferenceseries.net; proteinengineering@conferenceseries.com

Scientific Program

Day 1 October 26, 2015

Registrations

VERSAILLES-B

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

R Stephen Berry
The University of Chicago, USA

David Mead
Lucigen Corporation, USA

Networking & Refreshments @ Foyer

Ram Samudrala
State University of New York, USA

Group Photo

Track 1: Enzyme Engineering
Track 2: Recombinant Protein Expression

Session Chair: Frits Goedegebuur, DuPont Industrial Biosciences, The Netherlands

Session Co-Chair: Sarah Morais, Weizmann Institute of Sciences, Israel

Session Introduction

Title: Strategies for recombinant production of human glycosylation enzymes: comparison of mammalian and insect cell expression systems
Kelley Moremen, University of Georgia, Athens GA, USA
Title: IPE - Industrial protein engineering: Accelerated evolution
Frits Goedegebuur, DuPont Industrial Biosciences, The Netherlands

Lunch Break @ ATHENS

Title: Engineered "restriction RNases" for sequence-specific cleavage of dsRNA and RNA in DNA-RNA hybrids
Janusz Bujnicki, International Institute of Molecular and Cell Biology, Poland
Title: Novel solubility fusion partners high throughput system to produce soluble proteins
David Mead, Lucigen Corporation, USA
Title: Multiscale modelling of relationships between protein classes and drug behavior across all diseases using the cando platform
Ram Samudrala, State University of New York, USA
Title: Engineering glycosyl hydrolases using binding modules optimally
M. Waheed, University of the Punjab, Pakistan

Networking & Refreshments @ Foyer

Title: Development of a convenient expression and assay for the activity of TET2 dioxygenase
Mridhul Mukherji, University of Missouri-Kansas City, USA
Title: Development of whole cell biosensor for screening of engineered lignin-degrading enzymes
Barindra Sana, A*STAR, Singapore
Title: Improved bacterial enzyme systems for deconstruction of cellulosic biomass for production of liquid biofuels
Sarah Morais, Weizmann Institute of Sciences, Israel

Panel Discussion

Day 2 October 27, 2015

VERSAILLES-B

Keynote Forum

Victor Tsetlin
Russian Academy of Sciences, Russia

Karl Freed
The University of Chicago, USA

Networking & Refreshments @ Foyer

Track 3: Protein Engineering
Track 4: Protein Therapeutics and Market Analysis

Session Chair: Victor Tsetlin, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry-RAS, Russia

Session Co-Chair: Gamal E H Osman, Umm Al-Qura University, Saudi Arabia

Session Introduction

Title: Gene Isolation, cloning, nucleotide sequencing and overexpression of anticancer protein from local bacterial isolates
Gamal E H Osman, Umm Al-Qura University, Saudi Arabia
Title: Neural stem cells promote nerve regeneration through IL12-induced oligodendrocyte differentiation
Ing-Ming Chou, National Health Research Institutes, Taiwan
Title: Neurotoxins: Enemies and/or Friends and why protein engineering?
Victor Tsetlin, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry-RAS, Russia

Lunch Break @ ATHENS

Title: Designing antigens for reliable serodiagnosis of tuberculosis
M Waheed Akhtar, University of the Punjab, Pakistan

Young Researchers Forum

Title: A new high affinity immobilization tag for generating recombinant antibodies by phage display library selection
Somnath Mukherjee, University of Chicago, USA
Title: Superiority through selectivity: Unnatural cofactors and the enzymes that bind them
Evan Reynolds, University of North Carolina, USA
Title: Optogenetic control of endogenous neuronal commitment and differentiation
Samrat Roy Choudhury, Purdue University, USA

Networking & Refreshments @ Foyer

Title: Recombinant fusion proteins for targeted therapy of leukemia
J Madhumathi, Indian Institute of Technology, India
Title: Identification of high affinity Adhirons for the development of rapid point-of-care diagnostics for Clostridium difficile infection
Modupe Ajayi, University of Leeds, UK
Title: Heterogeneous expression and functional characterization of ß-glucosidase gene from AspergillusnigerBE-2 and construction of it's hyper-expression system in Trichoderma orientalis EU7-22 by (cbh1) promoter optimization
Nasir Ali, Xiamen University, China
Title: The mechanical impact of Aromatic residue mutation on Aß amyloid protofibrils
Hyun Joon Chang, Korea University, Korea
Title: Co-immobilization by DNA binding protein tags
Atsbeha Gebreegziabxier, Ethiopian Public Health Institute, Ethiopia

Panel Discussion

Poster Presentations

Day 3 October 28, 2015

VERSAILLES-B

Track 5: Pharmacogenomics and Pharmacoproteomics
Track 6: Protein Purification

Session Chair: Cody Coyne, Mississippi State University, USA

Session Introduction

Title: Necessary concepts in the design of the molecular structure and organic chemistry reactions for the synthesis of covalent biopharmaceuticals
Cody Coyne, Mississippi State University, USA
Title: New views on old kinetic ideas: How empirical enzyme kinetic analysis can shed new light on disease mechanisms
Ryan Walsh, INRS–Institut Armand-Frappier Research Centre, Canada

Networking & Refreshments @ Foyer

Title: Generation of purely native recombinant human cellular proteins and human viral antigens in the yeast expression systems
Rimantas Slibinskas, Vilnius University, Lithuania
Title: Cloning, characterization and saccharification analysis of GH12 endo-1,4-ß-glucanase from Thermotoga petrophila in a mesophilic host
Ikram ul Haq, GC University, Pakistan
Title: Purification and characterization of Glucose oxidase from locally isolated strain of Aspergillus niger
Irfana Mariam, Queen Mary college Lahore, Pakistan

Panel Discussion

Poster Presentation

Title: Universal labeling method for antibody IgGs
Judie Berlier, Thermo Fisher Scientific, USA
Title: Expression of de novo disulfide-rich proteins with α,ß-hydrolase-type folds
Ruud Van Duersen, University of Washington, USA
Title: Using synthetic affinity binders (sABs) as biological tools to study the chromosome passenger complex proteins
Marcin Ura, University of Chicago, USA
Title: Design and characterization of antimicrobial peptides with high anticancer activity and selectivity
Jya-Wei Cheng, National Tsing Hua University, Taiwan
Title: Thermodynamic dissection of an affinity matured antibody and implications for library design
Sriram Jakkaraju, Northern Illinois University, USA
Title: Two Dimensional Electrophoresis in Diagnosis of lysosomal storage disorders mainly Mucopolysaccharidoses in India
Gujjarlapudi Deepika, Asian Institute of Gastroenterology, INDIA
Title: Diverse stacking and facing directions of ß-strands alters the structural stability and mechanical properties of hIAPP protofibrils
Myeongsang Lee, Korea University, Korea
Title: Protein engineering of roultella planticola organophosphorus acid anhydrolase (OPAA) for hydrolysis of organophosphorus nerve agents
Katie F. Glenn, US Army Edgewood Chemical Biological Center, USA
Title: Active Site Engineering of ß-glucosidase
Sneha C. Sawant, DBT-ICT Centre for Energy Biosciences, India
Title: Genomic big data: Scalability challenges and solutions
Faraz Faghri, University of Illinois at Urbana-Champaign, USA

Lunch Break: @ ATHENS

Closing Ceremony

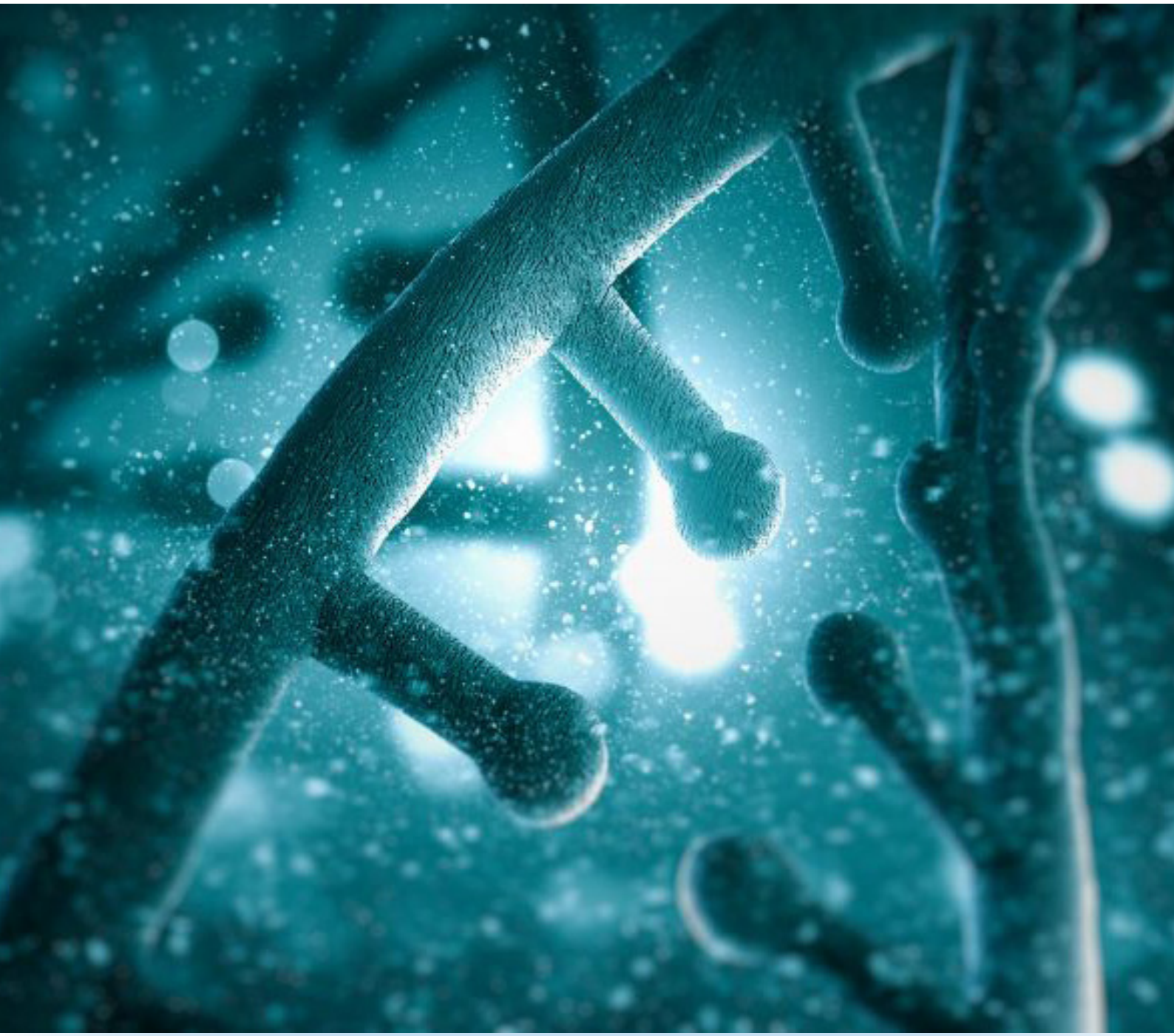
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Scientific Program

5th International Conference on

Proteomics & Bioinformatics

September 01-03, 2015 Valencia, Spain



OMICS International Conferences:
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
Email: proteomics@omicsgroup.com; proteomics@conferenceseries.net

Registrations

Melia Meeting 4-5

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Peter Nilsson
KTH-Royal Institute of Technology, Sweden

Ida Pucci Minafra
University of Palermo, Italy

Networking & Refreshments Break @ Foyer

Track 1: Proteomics from Discovery to Function
Track 2: Mass Spectrometry in Proteome Research
Track 3: Proteome

Session Chair: Patricia Sampaio Tavares Veras, Fundacao Oswaldo Cruz (FIOCRUZ), Brazil
Session Co-Chair: Sara Motta, National Research Council, Italy

Session Introduction

Title: Neuroproteomic profiling reveals anoctamin 2 as an autoimmune target in multiple sclerosis
Peter Nilsson, KTH-Royal Institute of Technology, Sweden
Title: Improved SERS nanodumbbells design for femtomolar-sensitive screening disease-associated biomarkers
Nekane Guarrotxena, CSIC-Institute of Polymer Science and Technology, Spain
Title: Mass spectrometry-based approach coupled to computational tools for proteomics investigation of bacterial membrane
Sara Motta, National Research Council, Italy
Title: Proteomics analysis of infected murine macrophages reveals modulation of proteins potentially involved in Leishmania intracellular survival
Patrícia Sampaio Tavares Veras, Gonçalo Moniz Research Center- FIOCRUZ, Brazil
Title: Commercialization of a plasma amino acid based risk diagnosis service
Takeshi Kimura, Ajinomoto Co., Inc., Japan
Title: DNA-Affinity purification followed by mass spectrometry (AP-MS): Application to the analysis of transcriptional regulators interacting with a defined DNA sequence
Patricia Renard, University of Namur, Belgium
Title: Integrating bioinformatic analyses and omics approaches for cloning and recombinant production of major allergens from Polybia paulista venom
Amilcar Perez-Riverol, Sao Paulo State University, Brazil

Group Photo

Lunch Break @ Aqua Restaurant

Session Chair: Nekane Guarrotxena, CSIC-Institute of Polymer Science and Technology, Spain
Session Co-Chair: Mohamad Khairi Zainol, Universiti Malaysia Terengganu, Malaysia
Title: High disease burden in human synaptic protein complexes identified by proteomics and bioinformatics
Alex Bayes, Biomedical Research Institute Sant Pau, Spain
Title: A mass spectrometry driven proteomics approach identifies new protein families involved in regeneration
Mario Looso, Max Planck Institute for Heart and Lung Research, Germany
Title: Deciphering the binding characteristics of DppA-dipeptide interaction by site directed mutagenesis
Mohamad Khairi Zainol, Universiti Malaysia Terengganu, Malaysia
Title: Exploring neighborhoods of ubiquitinated proteins with proximity-utilizing biotinylation
Arman Kulyyassov, National Center for Biotechnology, Kazakhstan

Young Researchers Forum

Title: Circulating proteins revealed to be associated to knee radiographic OA
Lucia Lourido Salas, Instituto de Investigacion Biomedica de A Coruna, Spain
Title: Proteomic characterization of Vancomycin-resistant Enterococci clinical strains
Luis Pinto, University of Tras-os-Montes and Alto Douro, Portugal

Networking & Refreshments Break @ Foyer

Title: Producing recombinant poly-γ-glutamic acid as 'mortar' of biomimetic nacre
Nadine Bongaerts, Delft University of Technology, The Netherlands
Title: *In silico* screening of anti-malarial from Indonesian medicinal plants database to plasmepsin target
Eko Aditya Rifai, Universitas Indonesia, Indonesia
Title: A novel prediction model for different post-translational modifications: GEARS (genetic evolution of classifier by learning residues rules of sequences)
Zeeshan Iqbal, Institute of Molecular Sciences and Bioinformatics, Pakistan
Title: Anti-bacterial activity of a mixture of garlic extracts (Allium sativum) and skimmed milk in clinical isolates
Dalha Wada Taura, Bayero University, Nigeria

Video Presentation

Title: Meta-analysis of RAG2 using a genotranscriptomic/proteomic approach: Suggestive of its oncogenic role
Abbas Salavaty, Shahid Chamran University of Ahvaz, Iran

Panel Discussion

Day 2 September 02, 2015

Melia Meeting 4-5

Keynote Forum

Magnus S Magnusson
University of Iceland, Iceland
Laszlo Takacs
Biosystems International, Hungary

Track 5: Analytical Genomics and Proteomics
Track 6: Molecular Modeling and Drug Design
Track 7: Systems Biology Applications in Proteomics
Track 12: Proteomics Clinical Applications

Session Chair: Ida Pucci Minafra, University of Palermo, Italy
Session Co-Chair: Magnus S Magnusson, University of Iceland, Iceland

Session Introduction

Title: Navigating the 3D biological space – The bioGPS approach
Lydia Siragusa, Molecular Discovery Limited, UK
Title: Alterations of the proteome and transcriptome in induced sputum samples from smokers and early-stage COPD subjects
Thomas Schneider, Philip Morris International, Switzerland

Networking & Refreshments Break @ Foyer

Title: The T-pattern and structural and functional self-similarity from human and neuronal interactions to DNA
Magnus S Magnusson, University of Iceland, Iceland
Title: Heterologous expression of β-ketoacyl ACP synthase 1 of *Salmonella Typhi* in *Escherichia coli*
Hasni Arsad, Universiti Sains Malaysia, Malaysia
Title: Understanding protein structure and domains from a network perspective: Functional and evolutionary implications
Arnold Emerson Isaac, Vellore Institute of Technology University, India
Title: Phosphoproteomic screening for biomarkers and novel targets finding in early breast cancer
Miguel Quintela-Fandino, Spanish National Cancer Research Center, Spain

Track 10: Recent Advancements in Proteomics

Session Chair: Laszlo Takacs, Biosystems International, Hungary
Session Co-Chair: Jozsef Lazar, Biosystems International Kft, Hungary

Session Introduction

Title: ELISA-analog plasmonic nanostructures for ultrasensitive biomarkers identification
Nekane Guarrotxena, CSIC-Institute of Polymer Science and Technology, Spain
Title: Discovery and translation of epitomics biomarkers: Towards diagnostics
Jozsef Lazar, Biosystems International Kft, Hungary

Lunch Break @ Aqua Restaurant

Title: Proteomic analysis of carbapenem resistant *Klebsiella pneumoniae* strain in response to meropenem stress: Understanding cellular responses for survival
Asad U Khan, Aligarh Muslim University, India
Title: Current applications of mass spectrometry in clinical microbiology
Raju Ravikumar, National Institute of Mental Health and Neuro Sciences, India
Title: Stereoelectronic effect in amino acids and its influence on modification potential of proteins: *In silico* approach
Nasir Uddin, Institute of Molecular Sciences and Bioinformatics, Pakistan

Poster Presentations@ Foyer

Networking & Refreshments Break @ Foyer

Workshop

Title: Proteomics in biotherapeutic development: Therapeutic characterization, pharmacokinetic studies, pharmacodynamics and support to process development
Andreu Soldevila, Leanbio SL, Spain
Title: Analytical characterization for novel biological entities and biosimilars
Alastair Waugh, 3P Biopharmaceuticals, Spain
Title: Mass spectrometry approach for characterization of biotherapeutics from a CRO point of view
Carles Celma Lezcano, Kymos Pharma Services, Spain

Panel Discussion

Day 3 September 03, 2015

Melia Meeting 4-5

Track 10: Recent Advancements in Proteomics

Session Chair: Tiziana Bonaldi, European Institute of Oncology, Italy
Session Co-Chair: Nekane Guarrotxena, CSIC-Institute of Polymer Science and Technology, Spain

Session Introduction

Title: Quantitative proteomics for epigenetics: MS-based analysis of the histone post-translational modifications for basic and clinical research
Tiziana Bonaldi, European Institute of Oncology, Italy
Title: Markers found in macrophages using proteomics can function as targets for chemotherapeutic intervention of *Leishmania* infection
Patrícia Sampaio Tavares Veras, Gonçalo Moniz Research Center- FIOCRUZ, Brazil

Networking & Refreshments Break@ Foyer

Title: Study of the phosphoproteome of the pathogenic yeast *Cryptococcus neoformans var grubii*
Raju Ravikumar, National Institute of Mental Health and Neuro Sciences, India
Title: Network properties of protein domain co-occurrence network
Arnold Emerson Isaac, Vellore Institute of Technology University, India
Title: Comparative proteomic analysis of food related lactobacilli: New evidences
Maria De Angelis, University of Bari Aldo Moro, Italy
Title: Seminal plasma proteomics of Dorper rams from northeastern Brazil
Carlos Eduardo A Souza, Cisne University, Brazil

Lunch Break @ Aqua Restaurant

Panel Discussion

Poster Presentations

Title: Improved intact protein quantitation on an orbitrap fusion tribrid mass spectrometer using multiplexed SIM and PRM techniques
Steven Danielson, Thermo Fisher Scientific, USA
Title: Secretome proteomic analysis of renal cells treated with the profibrotic agents ANG II, TGFß1 and PDGF: A comparative study
Marwa Eltoweissy, University Medicine of Gottingen, Germany
Title: Quantitative proteomics of tear fluid using multiplex peptide stable isotope dimethyl labeling
Cecilie Aass, Oslo University Hospital, Norway
Title: Comprehensive proteomic approach for understanding xylem vessel cell differentiation
Masahiro Noguchi, Nara Institute of Science and Technology, Japan
Title: Application of proximity utilizing biotinylation method for identification of post-translational modification and ubiquitination in UV-induced DNA repair
Arman Kulyyassov, National Center for Biotechnology, Kazakhstan
Title: Identification and characterization of tissue-specific kinome profiles
Brenden Van Wyk, University of Saskatchewan, Canada
Title: Palladin, a novel end MT biomarker?
Kataryna Gawrys, Medical University of Lodz, Poland

Title: *In silico* analysis of non-synonymous single nucleotide polymorphisms of BMBR2 (PPH1) gene and demonstration of gene's network interactions
Mohamed Taha, University of Khartoum, Sudan
Title: Study of the compartmentalization of cell using proximity utilizing enzymatic ligation
Arman Kulyyassov, National Center for Biotechnology, Kazakhstan
Title: *In silico* analysis of single nucleotide polymorphism in FBN1 gene and study of genetic interaction
Mohanad Khalid Ali Abdelrahim, University of Khartoum, Sudan
Title: Seminal plasma and sperm membrane protein profile of Quarter Horse stallions
Priscilla Nascimento Guasti, Sao Paulo State University, Brazil
Title: Single nucleotide polymorphisms (SNPs) in human *abetalipoprotein epsilon* 4 (APOE e4) gene as a cause of Alzheimer's disease: *In silico* analysis
Abdelmohaymin A A Abdalla, University of Khartoum, Sudan
Title: Comparison of protein extraction buffers of bovine sperm
Caroline Scott, Sao Paulo State University, Brazil
Title: Genetic basis of steroid resistance in nephrotic syndrome NPHS2: A computational study
Khalid El. Khalid, University of Khartoum, Sudan



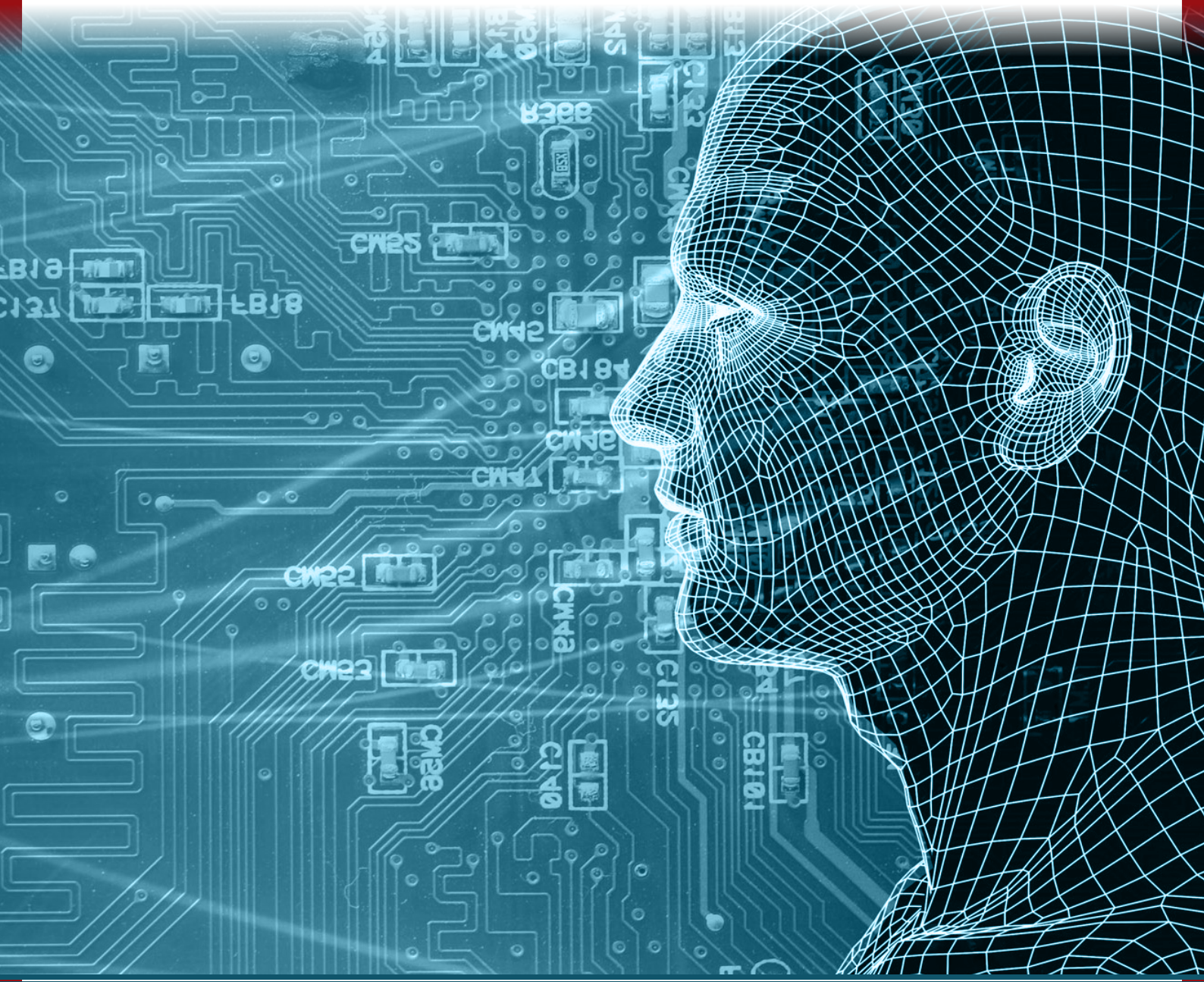
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Day 1 August 04, 2014

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Opening Ceremony

Keynote Forum

Introduction

Alan J Tackett
University of Arkansas, USA

Xuequn Chen
Wayne State University, USA

Group Photo

Coffee Break @ Foyer

Track 1: Proteomics an Overview
Track 2: Current Issues on Proteomics and Bioinformatics
Track 3: Molecular and Cellular Proteomics
Track 4: Applications of Proteomics

Session Introduction

Session Chair: Xuequn Chen, Wayne State University, USA
Session Co-Chair: Chin Chiew Foan, University of Nottingham, Malaysia

Title: $GABA_A$ receptor binding partners in the ER: A role in trafficking to the cell surface
Jasmina N Jovanovic, UCL School of Pharmacy, Uk

Title: Targeting the human cancer pathway protein interaction network by structural genomics
Yuanpeng Janet Huang, Rutgers University, USA

Title: Platelet aggregation under a quantitative proteomics point of view: ADP, collagen and ureases as agonists
Diogo Ribeiro Demartini, Universidade Federal do Rio Grande do Sul. Porto Alegre, RS. Brazil

Title: Application of nanobiotechnology in oncoproteomics
Sevgi Gezici, Texas A&M University, USA

Title: Oncoproteomics: Development of pharmacodynamic biomarkers and evaluation of the efficay of sorafenib liposomes for the treatment of hepatocellular carcinoma
Deepshikha Pande Katare, Amity University, India

Lunch Break @ Oaks

Title: Recent advancements in the mass spectrometry-based analysis of protein acetylation changes upon Boron treatment
Huseyin Cimen, Yeditepe University, Turkey

Title: Molecular docking to find inhibitors for acetylcholinesterase from Drosophila melanogaster
Jamal Alruwaili, Northern Border University, Saudi Arabia

Title: Comprehensive protein turnover analysis of a partial 15N stable isotope metabolic labelling experiment In Planta: Protein dynamics monitored upon drought stress recovery of *Medicago truncatula*
Stefanie Wienkoop, University of Vienna, Austria

Title: Large scale breast cancer clinical proteomics using high-resolution mass spectrometry and super-SILAC
Tamar Geiger, Tel Aviv University, Israel

Title: Predicted structural elements of Bcr-Abl oncoprotein isoforms in Chronic Myelogenous Leukemia
Nadeem A Kizilbash, Northern Border University, Saudi Arabia

Coffee Break @ Foyer

Title: Probing molecular and cellular mechanisms in tissue culture samples of commercial crops using proteomic approach
Chin Chiew Foan, University of Nottingham, Malaysia

Title: Nispyrtase: a thermostable, N-terminal arginine and lysine specific protease for ≤ 1 hr digestion, simplified peptide fragmentation and increased MS/MS sensitivity
John P Wilson, Cold Spring Harbor Laboratory, USA

Title: Proteomic aspects of Moroccan cases with early onset Alzheimer disease
Nadia El Kadmiri, University Hassan II, Morocco

Title: Computational shotgun drug repurposing for myriad diseases
Geetika Sethi, University of Washington, USA

Panel Discussions

Cocktails sponsored by **Journal of Proteomics & Bioinformatics @ Oaks**

Day 2 August 05, 2014

Hickory

Keynote Forum

Steven Pelech
Kinexus Bioinformatics Corporation, Canada

David Sheehan
University College Cork, Ireland

Track 5: Recent Developments in Proteomic Technology
Track 6: Proteomics in Clinical Research
Track 7: Evolutionary Phylogenetic Networks

Session Introduction

Session Chair: Hesham Ali, University of Nebraska at Omaha, USA
Session Co-Chair: David Sheehan, University College Cork, Ireland

Title: Predicting synergistic drug targets in cancer through molecular networks
Uma Shankavaram, National Cancer Institute, USA

Title: A targeted protein-based plasma biomarker approach demonstrates the feasibility of mass spectrometry to discriminate between patients with and without colorectal cancer
Jeff Jones, Applied Proteomics Inc., USA

Title: Application of proteomic tools in assessment of soybean protein variance
Savithiry S Natarajan, University of Maryland, USA

Coffee Break @ Foyer

Title: JUMP: A Tag-based database search program for peptide identification by mass spectrometry
Xusheng Wang, St. Jude Childrens Research Hospital, USA

Title: Issues and solutions for the quantification of post-translational or induced protein modifications
Martine Cadene, Centre de Biophysique Moléculaire, CNRS France

Title: A mass spectrometry driven proteomics approach identifies new protein families involved in regeneration
Mario Looso, Max Planck Institute for Heart and Lung Research, Germany

Title: High performance computing and private clouds for bioinformatics applications
Hesham H Ali, University of Nebraska, USA

Workshop on
"Meta-analysis of Human Cancers with OncoNET-An Open-Access, On-line Knowledge Base for Human Cancer Gene Mutation and expression"
Steven Pelech, Kinexus Bioinformatics, Canada

Lunch Break @ Oaks

Track 8: Onco Proteomics
Track 9: Genomics

Session Chair: Hesham Ali, University of Nebraska at Omaha, USA
Session Co-Chair: David Sheehan, University College Cork, Ireland

Title: Understanding the binding affinites of the sulfonanilide derivaties on aromatase
Shailima RD Vardhini, Osmania University, India

Title: Enzyme-pathway metabolic network analysis of hypertriglyceridemia
V Srinivasa Rao, Andhra University, India

Title: A proteomic approach to investigate specific traits in Tunisian barley accessions with contrasting salinity tolerance
Rahma Jardak-Jamoussi, Biotechnology Center of Borj Cedria (CBBC) Lab, Tunisia

Title: Molecular cloning, expression, purification and characterization of 37 kDa serine protease activation in pupal midgut of silkworm, Bombyx mori
M Krishnan, Bharathidasan University, India

Coffee Break @ Foyer

Title: Association analysis of Type 2 Diabetes proteins interaction network
K Srinivas, Andhra University, India

Title: Mass spectrometry-based quantitative proteomics for the investigation of chromatin plasticity and epigenetic regulation
Tiziana Bonaldi, European Institute of Oncology, Italy

Workshop on
"Computational Analysis (MaxQuant and Perseus)"
Tamar Geiger, Tel Aviv University, Israel

Poster Presentations @ Oaks

Panel Discussion & Prize Distrubtion

Cocktails Sponsored by **Journal of Pharmacogenomics & Pharmacoproteomics @ Oaks**

Day 3 August 06, 2014

Hickory

Track 10: Computational Biology
Track 11: Biopharmaceuticals and Gene Therapy
Track 12: Application of Bioinformatics

Session Introduction

Session Chair: Alexander Statsyuk, Northwestern University, USA
Session Co-Chair: Fuad Fares, University of Haifa, Israel

Title: An omics approach to purifying vascular progenitor cells for therapeutic potential
Claudine S Bonder, SA Pathology & University of South Australia, Australia
Title: Novel drug-discovery technology based on intact protein masspectrometry
Alexander Statsyuk, Northwestern University, USA
Title: Genotype-to-phenotype mapping in post GWAS world
Sergey V Nuzhdin, University of Southern California, USA

Coffee Break @ Foyer

Title: The role of proteomics in discovery of tumor biomarkers
Sevgi Gezici, Texas A&M University, USA
Title: Toxicity evaluation of carbon nanotubes in J774 mouse macrophages utilizing a proteomic approach
Dharani Das, Environmental Health Science and Research Bureau, Canada
Title: Supervised pattern recognition of different coffee products
Mohamed F AlAjmi, King Saud University, Saudi Arabia
Title: Inhibitors against resistant markers: A molecular and computational biology approach
Asad U Khan, Aligarh Muslim University, India
Title: The role of oligosaccharides on structure-function of glycoprotein hormones; Development of agonists and antagonists
Fuad Fares, University of Haifa, Israel
Title: Cochlear protein nitration in acquired hearing loss
Samson James Daniel, Wayne State University, USA

Lunch Break @ Oaks

Title: Identification and differential expression profiling of MicroRNAs from white and red muscles of siniperca chuatsi
Jianshe Zhang, Changsha University, China
Title: Survey of cloud computing in bioinformatics
Savitha Parur Venkitachalam, Western Michigan University, USA
Title: Determination of enzymatic action mechanisms of protein extracts obtained from the mushroom MM1-UDEA involved on *Mycosphaerella fijiensis* Morelet growth inhibition
Mounica Arias, University of Antioquia, Colombia
Title: Molecular detection and genotyping of Human parechovirus from clinical sample of children with gastroenteritis
Farideh Ghazi, University of Medical Sciences, Iran
Title: Scientific software solution modelling using Butterfly model
Zeeshan Ahmed, University of Wuerzburg, Germany