Conference Highlights

- Bioinformatics And Computational Biology
- ystems Biology In Bioinformatics
- Emerging Trends In Proteomics
- Emerging Trends In Genomics
- Health Informatics In Bioinformatics
- Structural Bioinformatics
- Evolutionary Bioinformatics
- Biostatistics - An Approach To Bioinformatics
- Bioinformatics Algorithms & Databases
- Bioinformatics Tools And Software
- Immunology And Drug Discovery
- Perspectives Of Clinical Informatics
- Epigenetics
- Clinical Case Reports

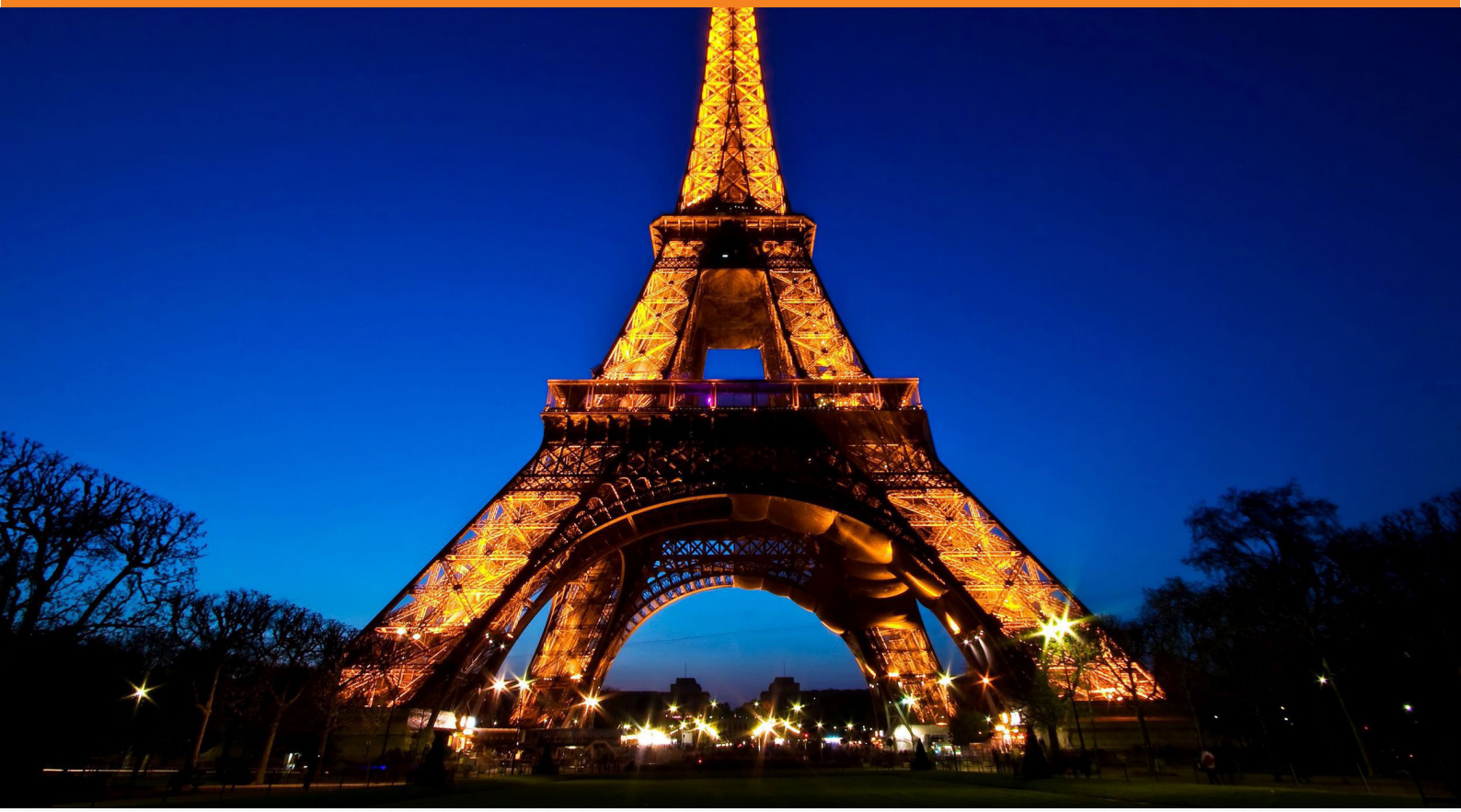


Tentative Program

9th International Conference on

Bioinformatics

October 23-24,2017



Interactive Sessions

Keynote Lectures

Plenary Lectures

Workshops

Exhibitors

B2B Meetings

For available speaker slots

bioinformaticscongress@biochemconferences.org

9th International Conference on

Bioinformatics

October 23-24,2017

October 23-24, 2017 Paris, France

Program at A Glance

Day 1

	Reception/Registration	08.00-09.00	
Morning Sessions	List of 3 Keynote/Plenary	Time	General Session
		09.00-09.15	Inaugural Address
		09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
		11.00-12.40	Oral Presentations
	Lunch Break 12.40-13.30		
Evening Sessions		13.30-15.30	Oral Presentations
	Coffee/Tea Break 15.30-15.45 (Networking)		
		15.45-17.25	Workshop

Day 2

	Time	Session 1	Session 2
Morning Sessions	09.00-10.40	Oral Presentations	
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	Oral Presentations	
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	Oral Presentations	
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	Oral Presentations	

NOTE: Program Schedule is subject to change with final allotment of the speaker slots

Glimpses of Bioinformatics Congress 2016













Glimpses of Bioinformatics Congress 2016













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7th International Conference on

Proteomics & Bioinformatics

October 24-26, 2016 Rome, Italy

Scientific Program



08:00-08:30 Registrations

Olimpica 1

conferenceseries.com 08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:05 **Introduction**

09:05-09:35 **Title: Solvent interaction analysis: A new approach to structure-focused clinical proteomics**
Boris Zaslavsky, Cleveland Diagnostics, USA

09:35-10:05 **Title: Glycomics work-flows for the characterization of vaccine glycoprotein antigens**
John F Cipollo, Center for Biologics Evaluation and Research-USFDA, USA

10:05-10:35 **Title: Systematic analysis of liver cancer metabolism - Lessons from mice and humans**
Stefan Kempa, Berlin Institute for Medical Systems Biology - MDC Berlin, Germany

10:35-11:05 **Title: Quantitative measurement of cellular events with image processing and data mining for drug discovery, therapy and system biology**
Petra Perner, Institute of Computer Vision and Applied Computer Sciences, Germany

Group Photo

Networking and Refreshment Break 11:05-11:25 @ Foyer

Sessions:

Protein Expression and Analysis | Cancer and Clinical Proteomics | Proteomics for Bioinformatics

Session Chair: Wendy Sandoval, Genentech, Inc., USA
Session Co-chair: Nekane Guarrotxena, Spanish National Research Council, Spain

Session Introduction

11:25-11:45 **Title: Quantification of non-cognate pairs resulting from single cell bispecific antibody assembly using high resolution intact mass measurement**
Wendy Sandoval, Genentech, Inc., USA

11:45-12:05 **Title: Moonlighting microtubule-associated proteins: Regulatory functions by day and pathological functions at night**
Judit Ovádi, Hungarian Academy of Sciences, Hungary

12:05-12:25 **Title: Temporal and spatial T-patterns in behavior and DNA: Is the structure of DNA reflected in the structure of neuronal and human behavior?**
Magnus S Magnusson, University of Iceland, Iceland

12:25-12:45 **Title: The antioxidant protein PARK7 plays an important role in cell resistance to cisplatin induced apoptosis in case of clear cell renal cell carcinoma**
Marwa Eltoweissy, University of Göttingen, Germany

12:45-13:05 **Title: Solution structure of CUBO, a novel domain that preferentially binds the ubiquitin-like protein NEDD8**
Elena Santonico, University of Rome Tor Vergata, Italy

13:05-13:25 **Title: Sensitive, selective and accurate response of plasmonic bead platforms in high-throughput biomarker screening**
Nekane Guarrotxena, Spanish National Research Council, Spain

Lunch Break 13:25-14:25 @ Hotel Restaurants

14:25-14:45 **Title: Next generation protein sequencing (NGPS) enables rapid full-length *de-novo* antibody and other protein sequence determination**
Alon Savidor, Weizmann Institute of Science, Israel

14:45-15:05 **Title: Allosteric modulation: The Hsp70 case study**
Federica Chiappori, Istituto di Tecnologie Biomediche-Consiglio Nazionale delle Recerche, Italy

15:05-15:25	**Title: Proteomics analysis of rat serum seeking for new transporters across blood-brain barrier** **Eunjoo Kim,** Daegu Gyeongbuk Institute of Science and Technology, South Korea
	Workshop
15:25-16:10	**Detection of recurrent self-similar structured clusters in human and neuronal interactions, DNA and proteins: T-Pattern Analysis (TPA) with Theme™** **Magnus S Magnusson,** University of Iceland, Iceland
	Sessions:
	Evolutionary & Structural Bioinformatics | Emerging Trends in Proteomics & Genomics | Frontiers of Systems Biology in Bioinformatics
	Session Chair: Alexandru G Floares, SAIA-Solutions of Artificial Intelligence Applications, Romania **Session Co-chair: Elena Papaleo,** Danish Cancer Society Research Center, Denmark
	Session Introduction
16:10-16:30	**Title: Of men and not mice: Comparative genomic analysis of human diseases and mouse models** **Wenzhong Xiao,** Stanford University School of Medicine, USA
	Networking and Refreshment Break 16:30-16:50 @ Foyer
16:50-17:10	**Title: The impact of functional redundancy on molecular signatures** **Alexandru G Floares,** SAIA-Solutions of Artificial Intelligence Applications, Romania
17:10-17:30	**Title: The mast cell has much in store for us: A call to bioinformaticians to advance insights into a unique, intriguing but underexplored cell subset of the human body** **Magda Babina,** Charité University Medicine Berlin, Germany
17:30-17:50	**Title: Structural communication in transcription factors** **Elena Papaleo,** Danish Cancer Society Research Center, Denmark
17:50-18:10	**Title: GNM 2.0 - A database housing protein dynamics data of >11,000 PDB structures revealing dynamics prerequisites for protein functions and interactions** **Lee Wei Yang,** National Tsing Hua University, Taiwan
18:10-18:30	**Title: Mathematical modelling of evolution of tetranucleotide usage patterns of whole bacterial genomes to improve phylogenetic inferences** **Xiaoyu Yu,** University of Pretoria, South Africa
18:30-18:50	**Title: ADPredict: ADP-ribosylation sites prediction based on physicochemical and structure descriptors** **Matteo Lo Monte,** Institute of Protein Biochemistry (IBP-CNR), Italy
	Panel Discussions

Day 2 October 25, 2016

Olimpica 1

Keynote Forum

	Introduction
09:00-09:30	**Title: Multi-level self-similarity from cells to insect and human societies: Socio-proteomics as a possible source of ideas and guidance for a general bio-social science?** **Magnus S Magnusson,** University of Iceland, Iceland
09:30-10:00	**Title: Fragments, fragmentome and fragmentomics in proteomics** **Alexander A Zamyatnin,** A.N. Bach Institute of Biochemistry, Russia; Universidad Técnica Federico Santa Maria, Chile

	Sessions:
	Cancer and Clinical Proteomics | Mass Spectrometry in Proteome Research | Proteomics from Discovery to Function | Plant Proteomics
	Session Chair: Bart Devreese, Ghent University, Belgium **Session Co-Chair: Pavel Vítámvás,** Crop Research Institute, Czech Republic
	Session Introduction
10:00-10:20	**Title: Effects of natural compounds and proteins on solvent properties of aqueous media** **Boris Zaslavsky,** Cleveland Diagnostics, USA

10:20-10:40	**Title: Laser microdissection in proteomic analysis** **Mauro Baron,** Leica Microsystems, Italy
10:40-11:00	**Title: Fecal (meta) proteomics: A tool to investigate dysbiosis and inflammation in patients with cystic fibrosis** **Bart Devreese,** Ghent University, Belgium
	Networking and Refreshment Break 11:00-11:20 @ Foyer
11:20-11:40	**Title: Quantitative proteomic analysis of prostate cancer for biomarker discovery and drug target identification** **Amilcar Flores Morales,** University of Copenhagen, Denmark
11:40-12:00	**Title: Quantitative proteomics and pharmacokinetic modeling in the optimisation of drug dosing** **Jill Barber,** University of Manchester, UK
12:00-12:20	**Title: Analysis of cereal response to abiotic stress using gel-based proteomics** **Pavel Vítámvás,** Crop Research Institute, Czech Republic
12:20-12:40	**Title: Potential use of reciprocal levels of serum and urinary peptides for discriminating prostate cancer from benign prostatic hyperplasia** **Jaime Jacqueline Jayapalan,** University of Malaya, Malaysia
	Poster Presentations 12:40-13:20 @ Cassia
	Lunch Break 13:20-14:20 @ Hotel Restaurants
	Workshop
14:20-15:05	**Disease specific databases for personalized medicine: Fabry disease as a case of study** **Maria Vittoria Cubellis,** University of Naples, Italy
	Sessions:
	Immunology and Drug Discovery | Bioinformatics Algorithms & Databases | Clinical Informatics & Biostatistics
	Session Chair: Nabil Mili, University of Geneva, Switzerland **Session Co-Chair: Tamas Hegedus,** Semmelweis University, Hungary
	Session Introduction
15:05-15:25	**Title: Translating genomic biomarker findings into clinical medicine: Dimension of the problem, network structure of competing models, and estimate of the misclassification prediction error** **Nabil Mili,** University of Geneva, Switzerland
15:25-15:45	**Title: PhyQuart-A new algorithm to avoid systematic bias & phylogenetic incongruence: Are directed quartets the key for more reliable supertrees?** **Patrick Kück,** The Natural History Museum London, UK
15:45-16:05	**Title: VHL-Hunter: A predictor of the impact of missense mutations in the function of the Von Hippel-Lindau protein (pVHL), risk of clear cell renal carcinoma and severity of pVHL-associated diseases** **Alvaro Olivera-Nappa,** University of Chile, Chile
16:05-16:25	**Title: Big data in noncoding RNA and precision medicine** **Runsheng Chen,** Institute of Biophysics, Chinese Academy of Sciences, China
	Networking and Refreshment Break 16:25-16:45 @ Foyer
16:45-17:05	**Title: *In silico* modeling of ABCG2/BCRP structure and dynamics sheds light on xenobiotic recognition and transport function** **Tamas Hegedus,** Semmelweis University, Hungary
17:05-17:25	**Title: Probability sampling in matched case-control study in drug abuse** **Surya Raj Niraula,** B P Koirala Institute of Health Sciences, Nepal
17:25-17:45	**Title: Structural implications of protease mutations in antiretroviral treatment exposed patients infected with HIV-1 subtype C** **Veronna Marie,** University of KwaZulu-Natal, South Africa
17:45-18:05	**Title: Designer protein enriched with large neutral amino acids: A new approach for treating phenylketonuria** **Prakruthi Appaiah,** CSIR-Central Food Technology Research Institute, India
18:05-18:25	**Title: Remote patient triage and prioritization in mobile telemedicine services** **Omar Hussein Salman,** Al Iraqia University, Iraq

Panel Discussions

Day 3 October 26, 2016

Olimpica 1

Special Session

09:30-10:15 **Glycomics characterization of influenza hemagglutinin glycoprotein antigens**
John F Cipollo, Center for Biologics Evaluation and Research-USFDA, USA

Sessions:

Proteomics in Protein Biochemistry and Personalized Medicine | Neuroproteomics & Neurometabolomics | Proteomics Case Study and Integrating Transcriptomics | Cancer and Clinical Proteomics

Session Chair: Serhiy Souchelnytskyi, Qatar University, Qatar
Session Co-Chair: Veronica Anania, Genentech, Inc., USA

Session Introduction

10:15-10:35 **Title: Systemic properties of proteome profiles of carcinogenesis of human breast epithelial cells, and clinical applications of these profiles**
Serhiy Souchelnytskyi, Qatar University, Qatar

10:35-10:55 **Title: Unraveling of gene expression control in genome-reduced bacteria**
Vadim Govorun, Federal Research and Clinical Center of Physical-Chemical Medicine of Federal Medical Biological Agency, Russia

Networking and Refreshment Break 10:55-11:15 @ Foyer

11:15-11:35 **Title: Quantitative proteomic approaches for identifying urinary biomarkers in Lupus nephritis**
Veronica Anania, Genentech, Inc., USA

11:35-11:55 **Title: Protein profile of seminal plasma and functionality of spermatozoa during the reproductive season in common carp *Cyprinus carpio* and rainbow trout *Oncorhynchus mykiss***
Anna Shaliutina-Kolesova, University of South Bohemia České Budějovice, Czech Republic

11:55-12:15 **Title: Effect of therapeutic concentration of lithium on living HEK293 cells; alteration of overall protein composition**
Miroslava Vosahlikova, Institute of Physiology of the Czech Academy of Sciences, Czech Republic

12:15-12:35 **Title: Comparative proteomic analysis of fibrosarcoma and skin fibroblast cell lines**
Hamdi Uysal, Ankara University, Turkey

Lunch Break 12:35-13:35 @ Hotel Restaurants

13:35-13:55 **Title: PRMT1 modulates gene expression during DNA damage response, through R-methylation of histones and non-histone targets**
Daniele Musiani, European Institute of Oncology, Italy

13:55-14:15 **Title: Proteomic analysis of protein composition of rat forebrain cortex exposed to morphine for 10 days: Comparison with animals exposed to morphine and subsequently nurtured for 20 days in the absence of this drug**
Hana Ujcikova, Institute of Physiology-Czech Academy of Sciences, Czech Republic

14:15-14:35 **Title: Analysis of screening and bioinformatics of antithrombotic peptides in casein molecules from bovine milk**
Maolin Tu, Harbin Institute of Technology, China

14:35-14:55 **Title: Proteomic characterization of apoptosis process in *Entamoeba histolytica*: Identification of pro- and antiapoptotic proteins**
Guillermo Pérez Ishiwara, Instituto Politécnico Nacional, México

14:55-15:15 **Title: Texture and gene expression analysis of the brain in detection of Alzheimer's disease**
Alhadi Bustamam, University of Indonesia, Indonesia

Awards & Closing Cermony

Day 2 Poster Presentations 12:40-13:20 @ Cassia

PBP-01 **Title: Quantification of drug-metabolising enzymes in human liver microsomes: A comparison between label-free profiling and targeted quantitative analysis**
Zubida Al-majdoub, University of Manchester, UK

PBP-02 **Title: Mass spectrometry in forensic identification of two main potential agents of bioterrorism and warfare: Botulinum toxins and ricin**
Valerie Morineaux, Direction générale de l'Armement, France

PBP-03
Title: Nitric oxide synthases and acute sleep deprivation
Zdenka Kristofikova, National Institute of Mental Health, Czech Republic

PBP-04
Title: Expression and purification of membrane scaffold proteins for the design of discoidal phospholipid bilayer nanoparticles
Ramona Bosch, University of Hohenheim, Germany

PBP-05
Title: Proteomic analysis of endothelial to mesenchymal transition controlled by snail
Marta Stasiak, Medical University of Lodz, Poland

PBP-06
Title: An analysis of norovirus genome using next-generation sequencing
Jeong-Su Lee, National Institute of Food and Drug Safety Evaluation, Republic of Korea

PBP-07
Title: Identification and characterization of proteoglycans in early stages of fibrosis
Katarzyna Gawrys, Medical University of Lodz, Poland

PBP-08
Title: Quantitative analysis of prostate specific antigen isoforms using immunoprecipitation and stable isotope labeling mass spectrometry
Sung-Fang Chen, National Taiwan Normal University, Taiwan

PBP-09
Title: Molecular studies of scorpion toxins interactions with calcium-activated potassium channels
Alena Dmitrievna Volyntceva, Lomonosov Moscow State University, Russia

PBP-10
Title: Development of RNA standardized controls for quantitative detection of rotavirus and astrovirus by realtime RT-PCR
Kyu-Heon Kim, Ministry of Food & Drug Safety, Republic of Korea

PBP-11
Title: Comparative NanoUPLC-MS^E analysis between magainin I-susceptible and -resistant *Escherichia coli* strains
Marlon Henrique e Silva Cardoso, Universidade de Brasília, Brazil

PBP-12
Title: Application of N-terminal fusion protein partners for prokaryotic soluble expression of human VEGF165 and its simple purification with maltose binding protein tag
Minh Tan Nguyen, University of Ulsan, South Korea

PBP-13
Title: Role of fibrosin in the endothelial to mesenchymal transition
Marcin Popielarski, Medical University of Lodz, Poland

PBP-14
Title: Using entrapment sequences strategy for evaluation of database search engines and quality control methods in shotgun proteomics
Jie Ma, Beijing Proteome Research Center, China

PBP-15
Title: Proteomic approach to determine the biological variation of oil palm fruit mesocarp
Benjamin Lau, Malaysian Palm Oil Board, Malaysia

PBP-16
Title: Neonatal immune challenges affect behaviour, cytokine profiles and brain morphology parameters in adult rats
Hana Tejkalová, National Institute of Mental Health, Czech Republic

PBP-17
Title: A wiki-based web server for human disease
Tao Chen, National Center for Protein Sciences, China

PBP-18
Title: Profiling of osteosarcoma serum leads to identification of proteins involved in modulation of $\alpha 4\beta 1$ integrin expression in osteosarcoma cells migration
Fadzliza Hafiza Ramli, Universiti Teknologi MARA, Malaysia

PBP-19
Title: A proteomic road to acquire an accurate serological diagnosis for human tegumentary leishmaniasis
Hélida Monteiro de Andrade, Simone Pires, Federal University of Minas Gerais, Brazil

PBP-20
Title: Proteome reorganization of the bacterium upon invasion of a host cell as a mechanism of adaptation: A *Mycoplasma gallisepticum* model
Matyushkina Daria, Federal Research and Clinical Centre, Russia

PBP-21
Title: Evaluation of disulfide scrambling at various pH on Avastin digestion by mass spectrometry
Yi-Li Huang, National Taiwan Normal University, Taiwan

PBP-22
Title: Apoptotic induction in *Entamoeba histolytica*: Differential proteomic analysis deals with the identification of pro and antiapoptotic proteins
Gómez-García Consuelo, Escuela Nacional de Medicina y Homeopatía, Mexico

PBP-23 **Title: Quantitative analysis of medulloblastoma using tandem mass spectrometry**

Marta Nekulova, Masaryk Memorial Cancer Institute, Czech Republic

PBP-24 **Title: Transforming growth factor-beta1- and insulin-dependent regulation of carcinogenic transformation is in line with proteome profiling and identification of TGFbeta and insulin as keynodes of carcinogenic transformation of MCF7 cells**

Fatima Saoud Al-Mouhannadi, Reem Saeed Mubarak, Qatar University, Qatar

PBP-25 **Title: Whole transcriptome analysis reveals that Zika virus halts cell cycle progression and disrupts neuronal differentiation in human neurospheres**

João Lídio da Silva Gonçalves Vianez Júnior, Evandro Chagas Institute, Brazil

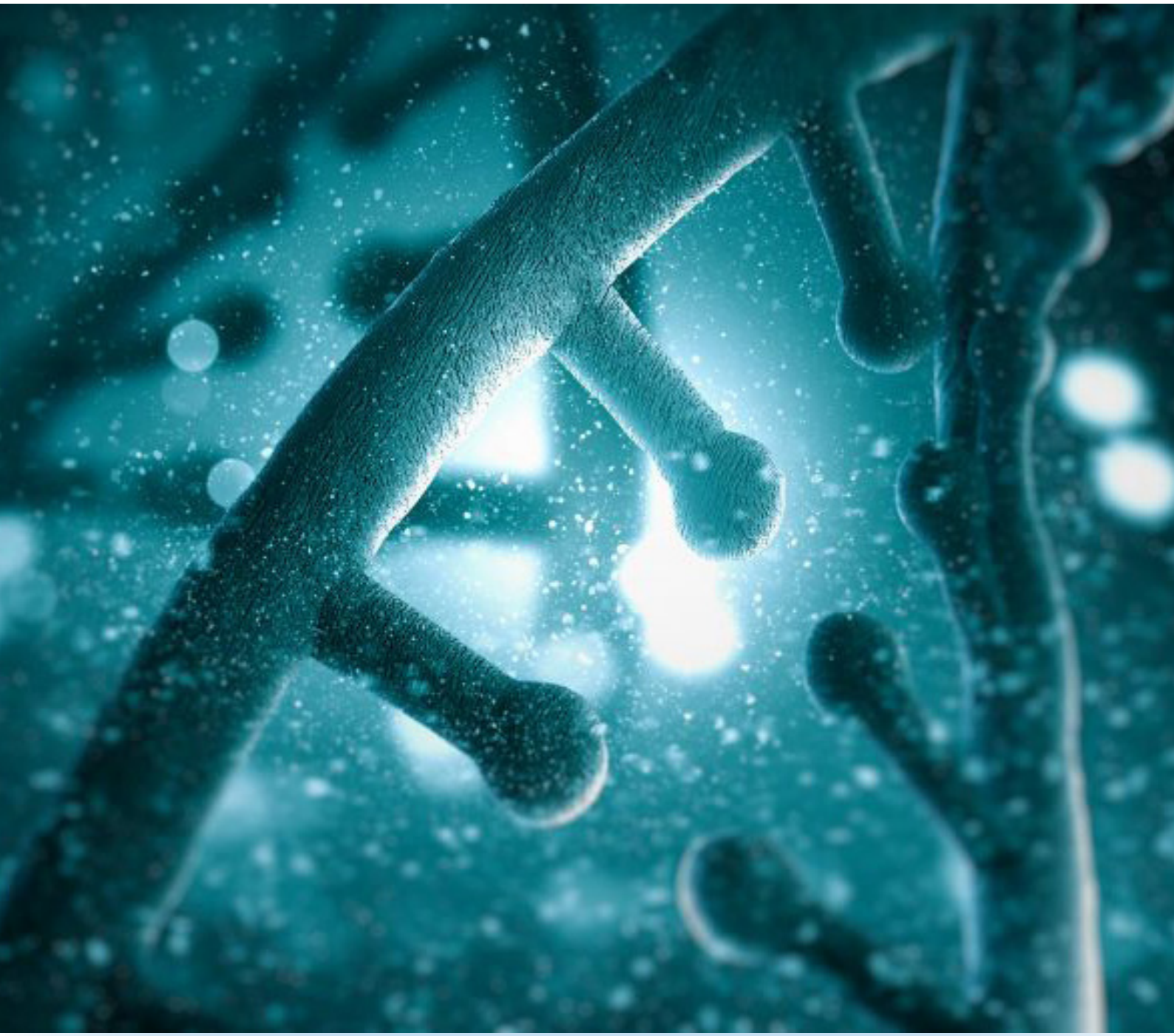


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Registrations

Melia Meeting 4-5

Opening Ceremony

Keynote Forum

Introduction

Peter Nilsson
KTH-Royal Institute of Technology, Sweden

Ida Pucci Minafra
University of Palermo, Italy

Networking & Refreshments Break

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 BreakFoyer

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

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

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

Networking & Refreshments Break

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

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

Panel Discussion

Poster Presentations

P01 **Title: Improved intact protein quantitation on an orbitrap fusion tribrid mass spectrometer using multiplexed SIM and PRM techniques**
Steven Danielson, Thermo Fisher Scientific, USA

P02 **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

P03 **Title: Quantitative proteomics of tear fluid using multiplex peptide stable isotope dimethyl labeling**
Cecilie Aass, Oslo University Hospital, Norway

P04 **Title: Comprehensive proteomic approach for understanding xylem vessel cell differentiation**
Masahiro Noguchi, Nara Institute of Science and Technology, Japan

P05 **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

P06 **Title: Identification and characterization of tissue-specific kinome profiles**
Brenden Van Wyk, University of Saskatchewan, Canada

P07 **Title: Palladin, a novel end MT biomarker?**
Kataryna Gawrys, Medical University of Lodz, Poland

P08	**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
P09	**Title: Study of the compartmentalization of cell using proximity utilizing enzymatic ligation** **Arman Kulyyassov,** National Center for Biotechnology, Kazakhstan
P10	**Title: *In silico* analysis of single nucleotide polymorphism in FBN1 gene and study of genetic interaction** **Mohanad Khalid Ali Abdelrahim,** University of Khartoum, Sudan
P11	**Title: Seminal plasma and sperm membrane protein profile of Quarter Horse stallions** **Priscilla Nascimento Guasti,** Sao Paulo State University, Brazil
P12	**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
P13	**Title: Comparison of protein extraction buffers of bovine sperm** **Caroline Scott,** Sao Paulo State University, Brazil
P14	**Title: Genetic basis of steroid resistance in nephrotic syndrome NPHS2: A computational study** **Khalid El. Khalid,** University of Khartoum, Sudan

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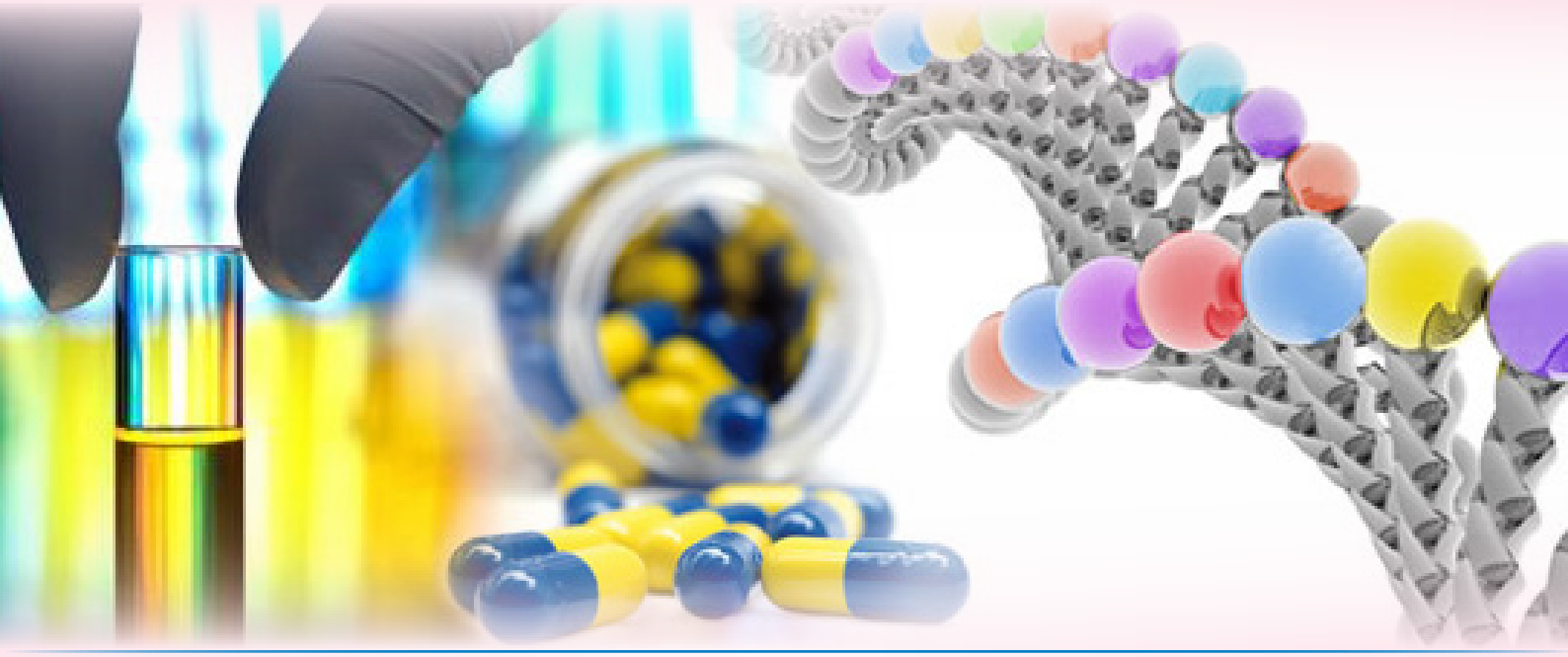
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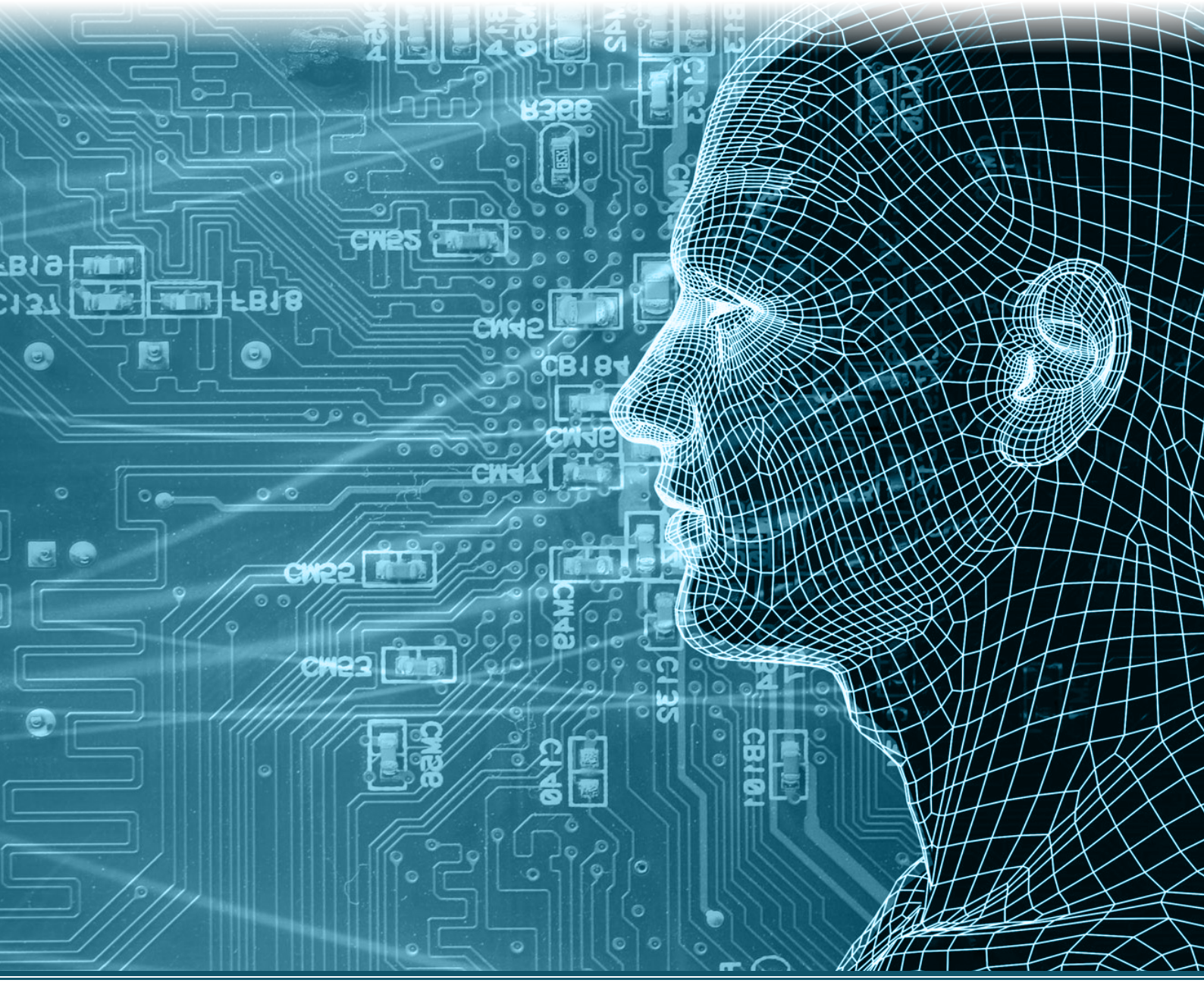
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Day 1 August 04, 2014

Registrations

Hickory



Opening Ceremony

Keynote Forum

Introduction

Alan J Tackett
University of Arkansas, USA

Xuequn Chen
Wayne State University, USA

Group Photo

Coffee Break

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

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

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

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

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

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**

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

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

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

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