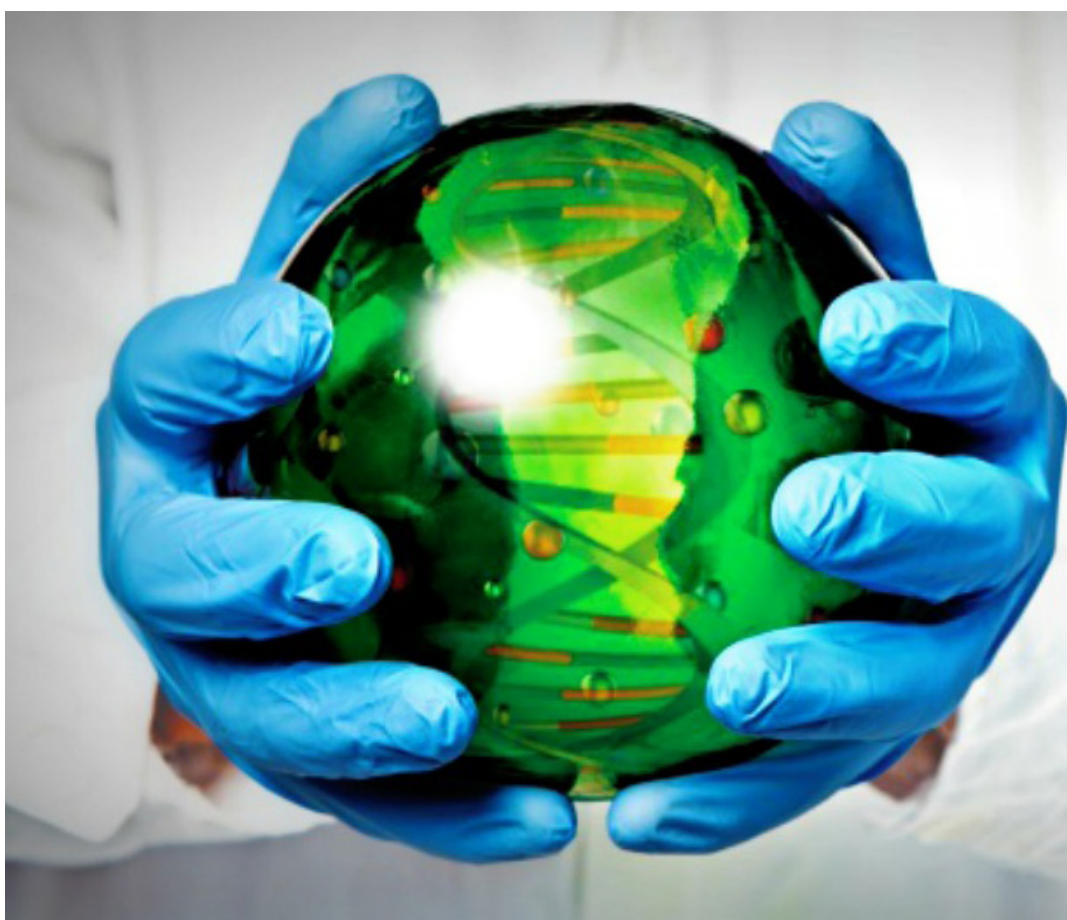


Scientific Program

3rd International Conference on
Integrative Biology

Valencia, Spain August 04-06, 2015

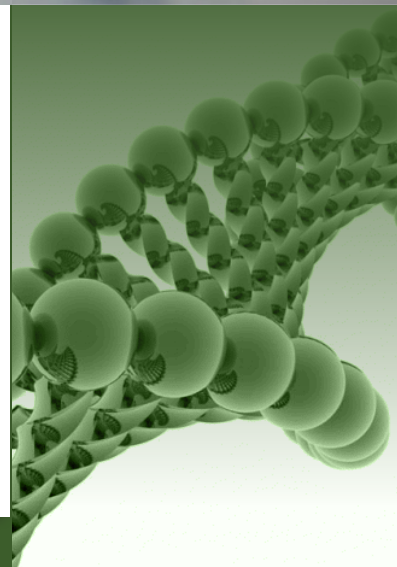


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Keynote Forum

- 09:15-09:30 **Introduction**
- 09:30-09:55 **Title: Ultra low power cytotoxic VLSI circuits: Synthesis method & proof-of-concept results**
Emmanuel Mic. Drakakis, Imperial College London, UK
- 09:55-10:20 **Title: Integration of next-generation sequencing data with analytical chemistry, structural biology and cell biology**
Peter L. Nagy, Columbia University, USA

Group Photo

Track 1: Genomics and Bioinformatics

Track 2: Integrative Computational Biology

Track 3: Drug Discovery and Integrative Biology

Session Chair: Jeffrey Zheng, Yunnan University, China

Session Co-chair: Dang Duong Bang, Technical University of Denmark, Denmark

Session Introduction

- 10:25-10:45 **Title: Variant maps to identify coding and non-coding DNA sequences of genomes selected from multiple species**
Jeffrey Zheng, Yunnan University, China
- 10:45-11:05 **Title: Importance of Apolipoproteins in MS**
Lidia Gardner, The University of Tennessee Health Science Center, USA

Networking & Refreshment Break 11:05-11:20

- 11:20-11:40 **Title: Metamaterials-based label-free nanosensor for conformation and bioaffinity sensing**
Cuong Cao, Queen's University Belfast, UK
- 11:40-12:00 **Title: The phospholipid enzyme CTP:phosphoethanolamine cytidyltransferase (Pcyt2) is a new target for oxidative stress therapy and ischemia**
Bakovic Marica, University of Guelph, Canada
- 12:00-12:20 **Title: Towards a total integrated Lab-on-a-chip system for food safety**
Dang Duong Bang, Technical University of Denmark, Denmark
- 12:20-12:40 **Title: Hypothetical proteins: Can they be the next drug targets?**
Normi Mohd Yahaya, Universiti Putra Malaysia, Malaysia
- 12:40-13:00 **Title: Lab-on-a-chip system with integrated sensors for 3D tissue engineering applications**
Anders Wolff, Technical University of Denmark, Denmark
- 13:00-13:20 **Title: Deciphering the epigenetic code with innovative insect models**
Ryszard Maleszka, The Australian National University, Canberra

Lunch Break 13:20-14:00

- 14:00-14:20 **Title: Synthesis and evaluation of new thienopyrimidine/pyridine derivatives as antitumoral and/or antiangiogenics**
Maria-Joao R. P. Queiroz, University of Minho, Portugal
- 14:20-14:40 **Title: Onychomycosis: 1064-nm Nd:YAG q-switch laser treatment**
Hector Ricardo Galvan Garcia, University of Guadalajara, Mexico
- 14:40-15:00 **Title: Natural cholinesterase inhibitors isolated from anatolian plants**
Gulacti Topcu, Bezmialem Vakif University, Turkey

15:00-15:20 **Title: Approaches for stimulating white rot fungi to accumulate bioactive polyphenols and flavonoids**
Xiangqun Xu, Zhejiang Sci-Tech University, China

15:20-15:40 **Title: Systematic identification and characteristics of long non-coding RNAs in of pigs**
Zhonglin Tang, Chinese Academy of Agricultural Sciences, China

Networking & Refreshment Break 15:40-15:55

15:55-16:55 **Workshop: Creative Approaches for Computational Genomics**
Jeffrey Zheng, Yunnan University, China

16:55-17:10 **Panel Discussion**

Day 2 August 05, 2015

Track 4: Cell Biology
Track 5: Tissue Biology
Track 6: Developmental Biology

Session Chair: Anja Nohe, University of Delaware, USA

Session Co-chair: Nirmal K. Shetty, Shri Krishna Research Centre, India

Session Introduction

09:00-09:20 **Title: Identifying new targets to improve skeletal formation in human**
Anja Nohe, University of Delaware, USA

09:20-09:40 **Title: Organization of avian thymic medulla and surfactant production**
Imre Olah, Semmelweis University, Hungary

09:40-10:00 **Title: Regulatory role of microRNA in severe asthma**
Jamila Chakir, Laval University, Canada

10:00-10:20 **Title: Stem cell biology and applications in preclinical experiments**
Helena Barreto Henriksson, Sahlgrenska University Hospital, Sweden

Networking & Refreshment Break 10:20 -10:35

10:35-10:55 **Title: High density lipoprotein signaling in macrophages and its role in atherosclerosis protection**
Bernardo L Trigatti, McMaster University, Canada

10:55-11:15 **Title: New nomenclature for pedigree charts based on the novel pattern of inheritance of ancestral and parental chromosomes**
Nirmal. K. Shetty, Shri Krishna Research Centre, India

11:15-11:35 **Title: On the computational ability of the RNA polymerase II carboxy terminal domain**
Jim Karagiannis, University of Western Ontario, UK

11:35-11:55 **Title: Telomere/telomerase and radiosensitivity**
Yunfeng Zhou and Wenbo Wang, Wuhan University, China

11:55-12:15 **Title: Carboxyl terminus of Hsp70-interacting protein(CHIP) functions as a tumor suppressor and enhance the radiosensitivity in cervical cancer**
Hui Yang, Wuhan University, China

12:15-12:35 **Title: Antiangiogenic treatment in non-small cell lung cancer (NSCLC)**
Ewa Maj, Polish Academy of Science, Poland

12:35-12:55 **Title: The role of microRNA-125b in calcitriol-induced differentiation of human leukemia and lymphoma cells**
Justyna Trynda, Polish Academy of Science, Poland

12:55-13:15 **Title: Diagnosis of dengue infection using metabolome analysis (biomarker profiles)**
Abdel-Hamid, National research centre, Egypt

Lunch Break 13:15-14:00

Track 10: Systems Biology

Session Chair: Robert A. Drewell, Clark University, USA

Session Co-chair: Jacqueline M. Dresch, Clark University, USA

14:00-14:20 **Title: Decoding the regulatory architecture in Drosophila Hox gene enhancers**
Robert A. Drewell, Clark University, USA

- 14:20-14:40** Title: **Detecting nucleotide interdependency in transcription factor binding sites**
Jacqueline M. Dresch, Clark University, USA
- 14:40-15:00** Title: **Comparative network analysis of insulin resistance in caucasian and african americans**
Bin Zhang, Icahn School of Medicine, USA
- 15:00-15:20** Title: **Constructing a workflow based on breath and urinary metabolomics to go further on asthma management**
Silvia M. Rocha, University of Aveiro, Portugal
- 15:20-15:40** Title: **Systems Biology of nanocellulose synthesis: new approach to build a core metabolic model based on computational analysis**
Samara Silva de Souza, Federal University of Santa Catarina, Brazil
- 15:40-16:00** Title: **A new computational approach to graphically highlight regulation relationships in metabolic systems from chromatographic data**
Nabil Semmar, Higher Institute of Applied Biological Sciences of Tunis, Tunisia

Networking & Refreshment Break 16:00-16:15

16:15-17:00 **Poster Presentation**

Day 3 August 06, 2015

Track 7: Bio-Engineering
Track 8: Systems Toxicology
Track 9: Ecology and Evolution

Session Chair: Armando del Rio Hernandez, Imperial College London, UK

Session Co-chair: Witold Chmielewski, Laval University, Canada

Session Introduction

- 09:00-09:20** Title: **Repeated exposure to cigarette smoke increased gingival fibroblast proliferation, telomerase activity through the activation of cell cycle genes activity**
Mahmoud Rouabhia and Witold Chmielewski, Laval University, Canada
- 09:20-09:40** Title: **Apolipoprotein E4 mediated targeting of blood brain barrier using nano-micellar metal chelators for treatment of Alzheimer's disease**
Fatemeh Bahadori, Bezmialem Vakif University, Turkey
- 09:40-10:00** Title: **Integration of biocompatible MEMS by gold electrodeposition using supercritical carbon dioxide**
Masato Sone, Tokyo Institute of Technology, Japan
- 10:00-10:20** Title: **Nano-G metrology system and its biomedical applications by CMOS-MEMS technology**
Daisuke Yamane, Tokyo Institute of Technology, Japan
- 10:20-10:40** Title: **Ultra-low power wireless transceiver systems for biomedical application**
Hiroyuki Ito, Tokyo Institute of Technology, Japan
- 10:40-11:00** Title: **Treatment with laser Nd: YAG q-switch vs Ipl in superficial mycoses , deep and atypical mycobacteria**
Hector Ricardo Galvan Garcia, University of Guadalajara, Mexico
- 11:00-11:20** Title: **Therapeutic potential of mesenchymal stem cells to treat Achilles tendon injuries**
Maria Helena Costa Vieira, Universidade Federal de Mato Grosso do Sul, Brasil

Networking & Refreshment Break 11:20-11:35

- 11:35-12:45** **Closing Plenary Lecture: Switching off the forces that drive pancreatic cancer: Current and Future perspectives**
Armando del Rio Hernandez, Imperial College London, United Kingdom

12:45-12:55 **Panel Discussion**

Lunch Break 12:55-13:40

Closing Ceremony

Poster Presentations

- INB-001** Title: **The use of biotechnology to enhance tolerance of Micro-Tom tomato to salinity in Saudi Arabia**
Mourad A.M. Aboul-Soud, King Saud University, Saudi Arabia
- INB-002** Title: **Molecular classification of oils content: Antifungals, Antimicrobials**
Francisco Torrens, University of Valencia, Spain
- INB-003** Title: **Evaluation of pH effects on genomic integrity in adipose-derived mesenchymal stem cells using the comet assay**
Andreia Antonioli, Federal University of Mato Grosso do Sul, Brasil
- INB-004** Title: **Towards Aspergillus niger diagnosis based on a molecular biomarkers pattern defined from exometabolome complex data**
Silvia M. Rocha, University of Aveiro, Portugal
- INB-005** Title: **Transcriptomic and tissue culture approaches for production of Amaryllidaceae alkaloids**
Aleya Ferdousi, University of Liverpool, UK
- INB-006** Title: **Fluorescence studies of new potential antitumoral N-(2 and 3-methoxyphenyl)thieno[3,2-b]pyridin-7-amines encapsulated in nanoliposomes**
Maria Joao R. P. Queiroz, University of Minho, Portugal
- INB-007** Title: **Upregulation of miR-29a and genomic DNA hypermethylation in normal karyotype AML showing DNMT3A mutation**
Maria Mirto, University of Palermo, Italia
- INB-008** Title: **Somatic embryogenesis and double haploid techniques for improvement of mutant wheat**
Ayse SEN, Istanbul University, Turkey
- INB-009** Title: **Functional genomic analysis of Comamonastestosteronistrain P19 degrading aromatic compounds**
Jong Chan Chae, Chonbuk National University, Korea
- INB-010** Title: **Cadmium induces matrix metalloproteinase-9 expression via NADPH Oxidase/ROS-dependent EGFR signals in human endothelial cells**
Young Do Jung, Chonnam National University Medical School, South Korea
- INB-011** Title: **Regulation of PKC-induced COX-2 expression by sex steroid hormones in rat granulosa cells**
Yuh-Lin Wu, National Yang-Ming University School of Medicine, Taiwan
- INB-012** Title: **An integrated model of coronary heart disease**
Marc Mathews and Edward Mathews, North-West University, RSA
- INB-013** Title: **pH Actuating Soft-Hydrogel Microparticles**
YoungShin Song, Chungnam National University, South Korea
- INB-014** Title: **Plant extracts as metal chelators for treatment of Alzheimer's disease**
Fatma Kazdal, Bezmialem Vakif University, Turkey
- INB-015** Title: **The biomechanical effect of tamoxifen treatment on the behavior of breast fibroblasts**
Jose Ernesto Cortes Lopez, Imperial College London, UK

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4th International Conference on Integrative Biology

Berlin, Germany June 13-15, 2016

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