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557th Conference

Scientific Program

4th International Conference on

Integrative Biology

July 18-20, 2016 Berlin, Germany



Conference Series LLC

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08:30-09:15 Registrations

Experience II

conference**series.com** 09:15-09:45

Opening Ceremony

Keynote Forum

- 09:45-10:15 **Title: Virtualized drug development for (truly) personalized drug therapy**
Hans Lehrach, Max Planck Institute for Molecular Genetics, Germany
- 10:15-10:45 **Title: The retinoic acid receptor controls the mechanobiology in pancreatic stellate cells to suppress matrix remodeling and inhibit cancer cell invasion**
Armando del Rio Hernandez, Imperial College London, UK

Networking & Refreshment Break 10:45-11:00 @ Main Lobby

- 11:00- 11:30 **Title: Structural basis of pre-mRNA splicing**
Reinhard Lührmann, Max Planck Institute for Biophysical Chemistry, Germany
- 11:30- 12:00 **Title: Chemical biology directed to anti-infective drug discovery**
Mark Brönstrup, Helmholtz Centre for Infection Research, Germany

Session Introduction

Sessions: Cell Biology | Developmental Biology | Stem Cell Biology | Tissue Biology

Session Chair: Anja Nohe, University of Delaware, USA

Session Co-Chair: Jamila Chakir, Laval University, Canada

- 12:00-12:20 **Title: Potential targets of VIVIPAROUS1/ABI3-LIKE1 (VAL1) repression in developing *Arabidopsis thaliana* embryos**
Eva Collakova, Virginia Tech, USA
- 12:20-12:40 **Title: Hybrid PCL/chitosan scaffolds with micro and macro porosity**
Hilal Turkoglu Sasmazel, Atilim University, Turkey
- 12:40-13:00 **Title: Regulation of inflammatory and anti-apoptotic responses through the IL-1RI/TILRR complex**
Eva Qwanstrom, University of Sheffield, United Kingdom

Lunch Break: 13:00-13:50 @ Element I+II Restaurant

- 13:50-14:10 **Title: New treatments for articular cartilage formation and repair**
Anja Nohe, University of Delaware, USA
- 14:10-14:30 **Title: The mechanobiology of muscle nuclei: Mechanism and functional significance**
Talila Volk, Weizmann Institute of Science, Israel
- 14:30-14:50 **Title: Protein replacement therapy for mitochondrial disorders: New hopes for incurable diseases**
Haya Lorberboum-Galski, The Hebrew University of Jerusalem, Israel
- 14:50-15:10 **Title: Investigation of sensory interface relaying information from cerebrospinal fluid to motor circuits**
Claire Wyart, Institut du Cerveau et de la Moelle épinière-UPMC CNRS, France
- 15:10-15:30 **Title: microRNAge: The role of microRNAs in aging of the *Drosophila* germline stem cell niche**
Hila Toledano, University of Haifa, Israel
- 15:30-15:50 **Title: Radio-sensitization of cloquinol and zinc ion in human cancer cells**
Yu Haijun and Yunfeng Zhou, Zhongnan Hospital of Wuhan University, China
- 15:50-16:10 **Title: Dissecting the mechanisms of liquid to solid phase transition associated with neurodegenerative diseases**
Avinash Patel, Max Planck Institute of Molecular Cell Biology and Genetics, Germany

Networking & Refreshment Break 16:10-16:25 @ Main Lobby

- 16:25-16:45** **Title: Actin and annexin A2: Essential partners of neuroendocrine secretion**
Chasserot-Golaz Sylvette, Institute of Cellular and Integrative Neurosciences, France
- 16:45-17:05** **Title: Tissue engineering concept of a model of airway bronchial mucosa**
Jamila Chakir, Laval University, Canada
- 17:05-17:25** **Title: Importance of Myc-related microRNAs in induced pluripotency**
E. Sacide Çaglayan, Yıldırım Beyazıt University, Turkey
- 17:25-17:45** **Title: Neogenin expression may be inversely correlated to the tumorigenicity of human lung cancer**
Yu Liu, Zhongnan Hospital of Wuhan University, China
- 17:45-18:05** **Title: Proteolytic maturation of *Drosophila* neuroligin3 in central nervous system**
Jun Wu, Southeast University, China
- 18:05-18:20** **Title: Chondrogenic and possible pathologic effects of PRP on adipose derived MSCs**
Arezou Pakfar, Islamic Azad University, Iran
- 18:20-18:35** **Title: The effect of biosynthesized *Rhazya stricta* leaf extracts with gold nanoparticles on breast cancer cell lines**
Mohammed Nabih Baeshen, University of Jeddah, KSA

Panel Discussion

Day 2 July 19, 2016

Experience II

Special session by Nobel Laureate Ada Yonath

- 09:30-10:30** **Title: Novel antibiotics against species-specific resistance, microbiome conservation and environmental preservation**
Ada Yonath, Weizmann Institute, Israel

Keynote Forum

- 10:30-11:00** **Title: How is the chirality information transferred during the mollusk development?**
Reiko Kuroda, Tokyo University of Science, Japan

Networking & Refreshment Break 11:00-11:15 @ Main Lobby

Sessions: Molecular Biology | Structural Biology

Session Chair: Michael Kolbe, Max Planck Institute for Infection Biology, Germany

Session Chair: Alexei V Finkelstein, Russian Academy of Sciences, Russia

Session Introduction

- 11:15-11:35** **Title: There and back again: Two views on the protein folding puzzle**
Alexei V Finkelstein, Russian Academy of Sciences, Russia
- 11:35- 11:55** **Title: The bacterial type 3 secretion system: Structure function analysis of a molecular syringe**
Michael Kolbe, Max Planck Institute for Infection Biology, Germany
- 11:55- 12:15** **Title: Proteasome dynamics**
Cordula Enenkel, University of Toronto, Canada
- 12:15- 12:35** **Title: Non-coding RNAs: An integrative biology hope for anxiety-related syndromes**
Hermona Soreq, The Hebrew University of Jerusalem, Israel
- 12:35- 12:55** **Title: The foldback intercoil DNA**
Byung-Dong Kim, Seoul National University, South Korea
- 12:55- 13:15** **Title: Structural basis of DNA gating by gyrase and topoisomerase IV and its inhibition by antibacterial therapeutics**
Larry Mark Fisher, University of London, UK

Lunch Break: 13:15-14:05 @ Element I+II Restaurant

- 14:05- 14:25** **Title: The relationship between the structural properties of p53 binding sites and p53-dependent gene expression**
Tali Haran, Technion-Israel Institute of Technology, Israel
- 14:25- 14:45** **Title: Bacterial genetics and structural biology for decoding the ubiquitin code**
Gali Prag, Tel Aviv University, Israel
- 14:45-15:05** **Title: Mechanically-induced protein structural changes in fibrin hydrogels using hyperspectral CARS microscopy**
Sapun H Parekh, Max Planck Institute for Polymer Research, Germany
- 15:05-15:25** **Title: Extrachromosomal circular DNA: A key player in creation of copy number variation**
Henrik Devitt Møller, University of Copenhagen, Denmark
- 15:25-15:45** **Title: Exposure to early life stress and glucocorticoids: Mechanisms of system-wide epigenetic effects**
Nadine Provençal, Max Planck Institute of Psychiatry, Germany

Poster Competition and Refreshment Break 15:45-16:20 @ Main Lobby

- IB- 01** **Title: Synergistic antimicrobial effects and GC-MS analysis of phytochemicals of *Commiphora quadricincta***
Nehad Mahmoud Gumgumjee, King Abdulaziz University, KSA
- IB- 02** **Title: Antibacterial and phytochemical properties of Qutran (wood tar) from *Olea europaea* subsp. *cuspidata* growing in Saudi Arabia (Al Bahah district)**
Abdul Rahman Hajar, King Abdulaziz University, KSA
- IB- 03** **Title: Identification of tissue specific cell death using methylation patterns of circulating DNA**
Daniel Neiman, The Hebrew University-Hadassah Medical School, Israel
- IB- 04** **Title: Adipose-derived stromal cell cluster with light therapy enhance angiogenesis and skin wound healing in mice**
In-Su Park, Dankook University, South Korea
- IB- 05** **Title: Evaluation of somatic point mutations associated to splicing mechanisms in colorectal cancer**
Joice de Faria Poloni, Federal University of Rio Grande do Sul, Brazil
- IB- 06** **Title: Screening the effect of different extraction methods for callus extracts of cassava (*Manihot esculenta*) plants using polar and non polar solvents as anti-breast cancer cell growth**
Nermeen M Arafa, National Research Centre, Egypt

- 16:20-16:40** **Title: Identification of non-intuitive biomarkers predicting dependency on AKT vs. MAPK signaling of ERBB2+ cancer cells using an integrated experimental and computational framework**
Jinyan Du, Merrimack Pharmaceuticals Inc., USA
- 16:40-17:00** **Title: The genetics of aortic valve disease**
Mona Nemer, University of Ottawa, Canada
- 17:00-17:20** **Title: Effect of porcine CD14 gene RNAi on the expression of toll-like receptor 4 pathway-related genes, the level of pro-inflammatory cytokines and adhesion ability to *Escherichia coli***
Chaohui Dai, Yangzhou University, China
- 17:20-17:40** **Title: Radio-sensitization of clioquinol and zinc ion in human cancer cells**
Ying Liu, Yangzhou University, China

Panel Discussion

Day 3 July 20, 2016

Experience II

Sessions: Systems Biology | Bioinformatics | Bioengineering | Bioimaging

Session Chair: Bernard Korzeniewski, Jagiellonian University, Poland

Session Chair: Mahmoud Rouabhia, Laval University, Canada

Session Introduction

- 09:00-09:20** **Title: Regulation of oxidative phosphorylation during work transitions and bioenergetic background of mitochondrial diseases**
Bernard Korzeniewski, Jagiellonian University, Poland
- 09:20-09:40** **Title: Novel methods for integrative modeling of biomedical data**
Vanathi Gopalakrishnan, University of Pittsburgh School of Medicine, USA
- 09:40-10:00** **Title: Mutational interference mapping experiment (MIME) for studying RNA structure and function**
Max von Kleist, Freie Universität Berlin, Germany
- 10:00-10:20** **Title: Cellular systems biology of chromosome dynamics**
Karen Lipkow, University of Cambridge, UK

Networking & Refreshment Break 10:20-10:35 @ Main Lobby

- 10:35-10:55** **Title: MHC I and antigen selection: Immune system modeling integrates cellular function with structural plasticity**
Jorn M Werner, University of Southampton, UK
- 10:55-11:15** **Title: Investigating functional relationships of five critical genes present in the familial non-synonymous loci with risk of having acute lymphoblastic leukemia**
Erchin Serpedin, Texas A&M University, USA
- 11:15-11:35** **Title: Energy anabolism as a modulator of adaptation across domains of life**
Daniel H Shain, Rutgers University, USA
- 11:35-11:55** **Title: Conformational study of a mutated protein complex in xeroderma pigmentosum disease using molecular dynamics and residue interaction networks**
Bruno César Feltes, Federal University of Rio Grande do Sul, Brazil
- 11:55-12:15** **Title: Robust patterning of gene expression based on internal coordinate system of cells**
Ken-ichiro Ogawa, Tokyo Institute of Technology, Japan
- 12:15-12:35** **Title: Super-resolution imaging of intrinsically fast moving flagellates**
Susanne Franziska Fenz, University of Wurzburg, Germany

Lunch Break: 12:35-13:25 @ Element I+II Restaurant

- 13:25-13:45** **Title: Fabrication of high biocompatible Pt-nylon and Pt-silk composite materials by supercritical carbon dioxide-assisted metallization method**
Tso-Fu Mark Chang, Tokyo Institute of Technology, Japan
- 13:45-14:05** **Title: Electrical stimulation as a tool to accelerate cutaneous regeneration and wound repair**
Mahmoud Rouabhia, Laval University, Canada
- 14:05-14:25** **Title: Synthesis of molybdenum disulphide (MoS₂) gadolinium complex with core shell structure used as *in vivo* MRI**
Rajeshkumar Anbazhagan, National Taiwan University of Science and Technology, Taiwan

Thanks giving & Closing ceremony

Bookmark your dates

5th International Conference on

Integrative Biology

June 19-21, 2017 London, UK

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