6th International Conference on Integrative Biology
May 21-23, 2018 Barcelona, Spain

Interactive Sessions  Keynote Lectures  Plenary Lectures  Workshops
Exhibitors  B2B Meetings

***For available speaker slots***

Mail to: integrativebiology@annualconferences.org  http://integrativebiology.conferenceseries.com/
### Day 1 May 21, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
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<tbody>
<tr>
<td>08.00-09.00</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td>09.00-09.15</td>
<td>Inaugural Address</td>
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<tr>
<td>09.15-09.45</td>
<td>Keynote/Plenary Talk 1</td>
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<td>09.45-10.15</td>
<td>Keynote/Plenary Talk 2</td>
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<td>10.15-10.45</td>
<td>Keynote/Plenary Talk 3</td>
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<td>11.00-12.40</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>13.30-15.30</td>
<td>6 Speakers (20 Mins Each)</td>
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<td>15.45-17.25</td>
<td>5 Speakers (20 Mins Each)</td>
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### Day 2 May 22, 2018

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<td>10.55-12.35</td>
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<td>13.25-15.05</td>
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<td>15.20-17.00</td>
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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots. For more Details PS: [http://integrativebiology.conferenceseries.com/](http://integrativebiology.conferenceseries.com/) integrativebiology@conferenceseries.net | integrativebiology@annualconferences.org

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Conference Highlights

- Integrative Biology
- Cell Biology
- Stem Cell Biology
- Developmental Biology
- Molecular Biology
- Structural Biology
- Genetic Engineering and rDNA Technology
- Cancer Biology
- Genomics
- Integrative Computational Biology & Bioinformatics
- Systems Biology
- Bio-Engineering
- Biophysics

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Register online: http://integrativebiology.conferenceseries.com/registration.php
Glimpses of Integrative Biology Series Conferences
BEST TOURIST ATTRACTIONS IN BARCELONA, SPAIN
Bioscience & Integrative Biology

June 19-20, 2017   London, UK
Day 1  June 19, 2017

Registrations

Waterfront 1

Keynote Forum

Title: Cholesterol masking of membrane glycosphingolipids provides a means to evade tumor immunosurveillance and the basis of a living cell transistor
Clifford Lingwood, Hospital for Sick Children, Canada

Title: Antibodies with functionality as a new generation of translational tools to monitor, to predict and to prevent demyelination
Sergey Suchkov, I.M. Sechenov First Moscow State Medical University, Russia

Group Photo

Networking & Refreshments

Title: Towards the structure of muscle Z-disk using integrative structural biology
Kristina Djinovic-Carugo, University of Vienna, Austria

Sessions: Integrative Biology
Session Chair: Clifford Lingwood, Hospital for Sick Children, Canada

Session Introduction

Title: Autophagy protease ATG4B as a drug target in cancer
Robin Ketteler, University College London, UK

Title: Tracking sub-clonal mutation frequencies throughout lymphoma development identifies cancer drivers in mouse models of lymphoma
Anthony Uren, Imperial College, UK

Title: The self-assembly of alpha-synuclein amyloid fibrils into higher order aggregates
Mireille Claessnes, University of Twente, Netherlands

Lunch Break

Sessions: Bioscience
Session Chair: Svetlana A Limborska, Russian Academy of Sciences, Russia
Session Co-chair: Sakae Tsuda, National Institute of Advanced Science and Technology, Japan

Session Introduction

Title: A new type I antifreeze protein BpAFP undergoes oligomerization to bind to whole surface of an ice crystal
Sakae Tsuda, National Institute of Advanced Science and Technology, Japan

Title: Evaluation of SSR and SNP markers obtained from transcriptome analysis by RNA-seq in Rubus glaucus Benth
Marta Leonor Marulanda, Technological University of Pereira, Colombia

Title: Enhancing T1 MRI contrast using gadolinium(III) in a multilayer nanoparticle
Oara Neumann, Rice University, USA

Title: Pharmacogenomics of peptide drugs
Svetlana A Limborska, Russian Academy of Sciences, Russia

Title: Combined metagenomics and meta-metabolomics analyses for cacao fermentation characterization
Juan Cevallos-Cevallos, Escuela Superior Politecnica del Litoral, Ecuador

Networking & Refreshments

Title: Metabolomic-based pathway analysis proposes changes in membrane fluidity of metalaxyl-resistant isolates of Phytophthora infestans
Maria Gabriela Mariduena-Zavala, Escuela Superior Politecnica del Litoral, Ecuador

Title: Advanced two-photon photolithography and novel ionic liquid – polymer composite enhance fundamental studies in biology
Natalia Bakhtina, Karlsruhe Institute for Technology, Germany
Title: Molecular genetic study to determine the role of melanin biosynthesis genes in the survival of the human pathogen Lomentospora prolificans
Ayat Al-Laaeiby, University of Exeter, UK

Panel Discussion

Day 2  June 20, 2017
Waterfront

Keynote Forum

Title: Plasmonics nanoprobe: A new generation of biotools for cellular sensing, biomedical imaging and bioenergy research
Tuan Vo-Dinh, Duke University, USA

Title: Visualization and quantification of protein interactions along microtubules in mammalian cells
David Pastre, University of Evry, France

Title: Bio-manufacturing of gout medicine
Ganapathi Sivakumar, University of Houston, USA

Networking & Refreshments

Sessions: Integrative Biology

Session Chair: Bernard S Lopez, Institut Gustave Roussy, France

Session Introduction

Title: Promoter sequences of genes controlling genome stability are altered in late G2 phase, following low/endogenous replication stress
Bernard S Lopez, Institut Gustave Roussy, France

Title: NELF-E is recruited to DNA double-strand break sites to promote transcriptional repression and repair
Nabieh Ayoub, Technion - Israel Institute of Technology, Israel

Title: Localized LoxL3-dependent fibronectin oxidation regulates myofiber stretch and integrin-mediated adhesion
Peleg Hasson, Technion - Israel Institute of Technology, Israel

Lunch Break

Title: Mapping the landscape of a eukaryotic degronome
Tommer Ravid, Hebrew University of Jerusalem, Israel

Title: Toll-like receptor 2-mediated MAPKs and NF-kB activation requires GNAO1-dependent pathway in human mast cell
Yangyang Yu, Shenzhen University Health Science Center, China

Title: Dynamic location of integration sites on host genomes during lateral gene transfer processes in live bacteria
Rinat Arbel-Goren, Weizmann Institute of Science, Israel

Title: The potential use of clausenidin in the treatment of liver cancer
Peter M Waziri, University of Putra, Malaysia

Title: iPSC-based research of bipolar mania
Jun Yao, Tsinghua University School of Life Sciences, China

Networking & Refreshments + Poster Presentations

Video Presentation

Title: The effects of initial conditions on fabrication of porous material
Peng-Sheng Wei, National Sun Yat-sen University, Taiwan

Title: Tumor suppressor miRNAs: Hypermethylation and novel potential targets in breast cancer
Eleonora A Braga, Institute of General Pathology and Pathophysiology, Russia

Award & Closing Ceremony
Scientific Program

4th International Conference on
Integrative Biology

July 18-20, 2016    Berlin, Germany

Conference Series LLC
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA    Ph: +1 702 508 5200 Ext: 8033
e-mail: integrativebiology@conferenceseries.net; integrativebiology@geneticsmeetings.com
Day 1        July 18, 2016

Registrations

Experience II

conference-series.com

Opening Ceremony

Keynote Forum

Title: Virtualized drug development for (truly) personalized drug therapy  
Hans Lehrach, Max Planck Institute for Molecular Genetics, Germany

Title: The retinoic acid receptor controls the mechanobiology in pancreatic stellate cells to  
suppress matrix remodeling and inhibit cancer cell invasion  
Armando del Río Hernandez, Imperial College London, UK

Networking & Refreshment Break

Title: Structural basis of pre-mRNA splicing  
Reinhard Lührmann, Max Planck Institute for Biophysical Chemistry, Germany

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

Title: Potential targets of VIVIPAROUS1/ABI3-LIKE1 (VAL1) repression in developing Arabidopsis thaliana embryos  
Eva Collakova, Virginia Tech, USA

Title: Hybrid PCL/chitosan scaffolds with micro and macro porosity  
Hilal Turkoglu Sasmazel, Atilim University, Turkey

Title: Regulation of inflammatory and anti-apoptotic responses through the IL-1RI/TILRR complex  
Eva Qwanstrom, University of Sheffield, United Kingdom

Lunch Break

Title: New treatments for articular cartilage formation and repair  
Anja Nohe, University of Delaware, USA

Title: The mechanobiology of muscle nuclei: Mechanism and functional significance  
Talila Volk, Weizmann Institute of Science, Israel

Title: Protein replacement therapy for mitochondrial disorders: New hopes for incurable diseases  
Haya Lorberbaum-Galski, The Hebrew University of Jerusalem, Israel

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

Title: microRNAge: The role of microRNAs in aging of the Drosophila germline stem cell niche  
Hila Toledano, University of Haifa, Israel

Title: Radio-sensitization of clioquinol and zinc ion in human cancer cells  
Yu Haijun and Yunfeng Zhou, Zhongnan Hospital of Wuhan University, China

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

Title: Actin and annexin A2: Essential partners of neuroendocrine secretion  
Chasserot-Golaz Sylvette, Institute of Cellular and Integrative Neurosciences, France

Title: Tissue engineering concept of a model of airway bronchial mucosa  
Jamila Chakir, Laval University, Canada
Title: Importance of Myc-related microRNAs in induced pluripotency  
E. Sacide Çağlayan, Yıldırım Beyazıt University, Turkey

Title: Neogenin expression may be inversely correlated to the tumorigenicity of human lung cancer  
Yu Liu, Zhongnan Hospital of Wuhan University, China

Title: Proteolytic maturation of Drosophila neuroligin3 in central nervous system  
Jun Wu, Southeast University, China

Title: Chondrogenic and possible pathologic effects of PRP on adipose derived MSCs  
Arezou Pakfar, Islamic Azad University, Iran

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

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

Keynote Forum

Title: How is the chirality information transferred during the mollusk development?  
Reiko Kuroda, Tokyo University of Science, Japan

Networking & Refreshment Break

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

Title: There and back again: Two views on the protein folding puzzle  
Alexei V Finkelstein, Russian Academy of Sciences, Russia

Title: The bacterial type 3 secretion system: Structure function analysis of a molecular syringe  
Michael Kolbe, Max Planck Institute for Infection Biology, Germany

Title: Proteasome dynamics  
Cordula Enenkel, University of Toronto, Canada

Title: Non-coding RNAs: An integrative biology hope for anxiety-related syndromes  
Hermona Soreq, The Hebrew University of Jerusalem, Israel

Title: The foldback intercoil DNA  
Byung-Dong Kim, Seoul National University, South Korea

Title: Structural basis of DNA gating by gyrase and topoisomerase IV and its inhibition by antibacterial therapeutics  
Larry Mark Fisher, University of London, UK

Session Introduction

Lunch Break
Title: The relationship between the structural properties of p53 binding sites and p53-dependent gene expression
Tali Haran, Technion-Israel Institute of Technology, Israel

Title: Bacterial genetics and structural biology for decoding the ubiquitin code
Gali Prag, Tel Aviv University, Israel

Title: Mechanically-induced protein structural changes in fibrin hydrogels using hyperspectral CARS microscopy
Sapun H. Parekh, Max Planck Institute for Polymer Research, Germany

Title: Extrachromosomal circular DNA: A key player in creation of copy number variation
Henrik Devitt Møller, University of Copenhagen, Denmark

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

IB-01 Title: Synergistic antimicrobial effects and GC-MS analysis of phytocomponents 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. cuspidate 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

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

Title: The genetics of aortic valve disease
Mona Nemer, University of Ottawa, Canada

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

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
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Institution</th>
<th>Country</th>
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<tbody>
<tr>
<td>Regulation of oxidative phosphorylation during work transitions and bioenergetic background of mitochondrial diseases</td>
<td>Bernard Korzeniewski</td>
<td>Jagiellonian University, Poland</td>
<td>Poland</td>
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<tr>
<td>Novel methods for integrative modeling of biomedical data</td>
<td>Vanathi Gopalakrishnan</td>
<td>University of Pittsburgh School of Medicine, USA</td>
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<td>Mutational interference mapping experiment (MIME) for studying RNA structure and function</td>
<td>Max von Kleist</td>
<td>Freie Universität Berlin, Germany</td>
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<td>Cellular systems biology of chromosome dynamics</td>
<td>Karen Lipkow</td>
<td>University of Cambridge, UK</td>
<td>UK</td>
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<td>MHC I and antigen selection: Immune system modeling integrates cellular function with structural plasticity</td>
<td>Jorn M Werner</td>
<td>University of Southampton, UK</td>
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<td>Investigating functional relationships of five critical genes present in the familial non-synonymous loci with risk of having acute lymphoblastic leukemia</td>
<td>Erchin Serpedin</td>
<td>Texas A&amp;M University, USA</td>
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<td>Energy anabolism as a modulator of adaptation across domains of life</td>
<td>Daniel H Shain</td>
<td>Rutgers University, USA</td>
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<td>Conformational study of a mutated protein complex in xeroderma pigmentosum disease using molecular dynamics and residue interaction networks</td>
<td>Bruno César Feltes</td>
<td>Federal University of Rio Grande do Sul, Brazil</td>
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<td>Robust patterning of gene expression based on internal coordinate system of cells</td>
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<td>Super-resolution imaging of intrinsically fast moving flagellates</td>
<td>Susanne Franziska Fenz</td>
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<td>Fabrication of high biocompatible Pt-nylon and Pt-silk composite materials by supercritical carbon dioxide-assisted metallization method</td>
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<td>Electrical stimulation as a tool to accelerate cutaneous regeneration and wound repair</td>
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<td>Synthesis of molybdenum disulphide (MoS\textsuperscript{2}) gadolinium complex with core shell structure used as in vivo MRI</td>
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