



16TH IUBMB CONFERENCE

SIGNALLING PATHWAYS IN DEVELOPMENT, DISEASE AND AGING

59TH ANNUAL CSMB MEETING / XIII PABMB CONGRESS

JULY 17–21, 2016 | VANCOUVER, BC, CANADA | IUBMB2016.ORG



DRAFT Program for IUBMB2016 Conference

Confirmed Invited Speakers only are shown; March 18; Changes expected as conference attendees are approved for platform or rapid-fire presentations.

Sunday, July 17

09:00-17:00 **Workshops**

13:00-16:30 Workshop on Biochemistry Education and Communication
(Rosemary Redfield, John Dawson, Francis Amara & Diane Ebert-May)

17:30-19:30 **Plenary Session I – Cell Death & Aging**

Welcome Comments from IUBMB, CSMB, PABMB

Comments from Guests/Sponsors

Peter Lansdorp; Telomeres and Aging; University of Groningen, Netherlands

Karl Riabowol Tumour Suppressors, Cancer and Aging; University of Calgary, Canada

David Andrews Regulation of Apoptosis; University of Toronto, Canada

19:30-21:00 **Welcome Reception/Mixer/Entertainment**

Monday, July 18

8:30-10:00 **Plenary Session II – Cancer Causes and Progression**

Harald zur Hausen, Nobel Laureate; Nutritional Risk Factors for Colon and Breast Cancers and Multiple Sclerosis; German Cancer Centre, Heidelberg, Germany;

Steven Jones; Genomic Evolution in Cancer; BC Cancer Agency, Canada

Beatriz Caputto; c-fos and Cancer; Universidad Nacional de Córdoba, Argentina (co-chair)

10:00-10:45 **Break and Poster Viewing**

10:45-12:15 **Concurrent Sessions**



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Session A1 – Metabolic Signaling in Muscle

Dale Abel; Mitochondria and Cardiac Function; University of Iowa, USA

Amira Klip; Insulin Signaling in Muscle Membranes; Hospital for Sick Children, Canada

Sergio Lavandero; Cell Signaling Pathways in Cardiac Autophagy; Universidad de Chile, Chile

Another Speaker TBA

Session A2 – Post-translational Modifications

Brian Raught; Posttranslational Modification; University of Toronto, Canada

Izabela Sadowska-Bartosz; Protein Glycation; Uniwersytet Rzeszowski, Poland

Other Speakers TBA

Session A3 – Rapid Fire Presentations

Speakers TBA

12:30-13:30 **Posters, exhibits and lunch seminars**

13:45-15:15 **Concurrent Sessions**

Session B1 – Neurodegenerative Disease

Juan Bolanos; Molecular Bases of the Metabolic Programs of Neurons and Astrocytes; Universidad de Salamanca, Spain

Ana Cristina Rego; Neurodegenerative Disease; Universidade de Coimbra, Portugal

Other speakers TBA

Session B2 – Epigenetic Signaling & Regulation

James Davie; Nucleosomal Response Pathway and Immediate Early Gene Expression; University of Manitoba, Canada

Mathieu Lupien; The Chromatin Organization Reveals Functional Noncoding Mutations in Breast Cancer; Princess Margaret Hospital, Canada

Other Speakers TBA

Session B3 – Novel Therapeutics and Drug Resistance

Gerry Wright; Mechanistic Diversity in Antibiotic Resistance; McMaster University, Canada

Other Speakers TBA

Session B4 – Rapid Fire Presentations



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Speakers TBA

15:15-15:45 **Break and Poster Viewing**

15:45-17:15 **Plenary Session III – Signaling in Cell Biology & Development**

Tom Pollard; Molecular Mechanism of Cytokinesis; Yale University, USA
Esther Verheyen; Signaling in Drosophila Development; Simon Fraser University, Canada
Lawrence Pelletier; Centrosomes and Mitotic Control; University of Toronto, Canada

17:15-18:45 **Poster Mixer Session**

Tuesday, July 19

8:30-10:00 **Plenary Session IV – Circadian Rhythms**

Michael Young, Gairdner 2012; Circadian Rhythms; Rockefeller University, USA
Luis Larrondo; Fungal Circadian Rhythms; Universidad Católica de Chile, Chile
Ralph Mistlberger; Circadian Rhythms and Feeding Behavior; Simon Fraser University, Canada

10:00-10:45 **Break and Poster Viewing**

10:45-12:15 **Concurrent Sessions**

Session C1 – Cancer cells and membranes

Jose Luis Daniotti; Glycolipids and Cancer Therapy; Universidad Nacional de Córdoba, Argentina

Andrew Quest; Caveolin-1, a Jekyll and Hyde in Cancer; Universidad de Chile, Chile

Other speakers TBA

Session C2 – Epigenetic Signaling & Regulation

Martin Montecino; Epigenetic Control of Mesenchymal Cell Fate; Andres Bello University, Chile

Jerry Workman; Chromatin Modification in Signaling and Metabolism; Stowers Institute for Medical Research, USA

Other Speakers TBA



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Session C3 – Rapid Fire Presentations

Speakers TBA

12:30-13:30 **Posters, exhibits and lunch seminars**

13:45-15:15 **Concurrent Sessions**

Session D1 – Regulation of Stem Cells

Anna Bigas; Transcriptional Control, Stem Cells; Program de Recerca en Cancer, Spain
Young-Joon Kim; Regulation of Embryonic Stem Cell Maintenance and Differentiation Using Intragenic DNA Methylation; Yonsei University, Korea

Other Speakers TBA

Session D2 – Cell Death and Cell Survival

Roger Chammas; Galectin-3 Determines the Tumor Cell Survival Strategy in Stressed Microenvironments; Universidade de São Paulo, Brazil

Carlos Menck; Mechanisms Protecting Tumor Cells from DNA Damage Induced By Chemotherapeutic Agents; Universidade de São Paulo, Brazil

Other Speakers TBA

Session D3 – Regulation by Photoresponses

Alfredo Herrera-Estrella; Linking Light Perception and Stress Responses in the Filamentous Fungus *Trichoderma atroviride*; CINVESTAV, Mexico

Jorge Casal; Signalling Networks of Plant Photo-Sensory Receptors; IFEVA, Argentina

Other Speakers TBA

Session D4 – Rapid Fire Presentations

Speakers TBA

15:15-15:45 **Break and Poster Viewing**

15:45-17:15 Plenary Session V – Signaling and Immune Function

Tak Mak, Gairdner (1989); T-cell Receptors; University of Toronto, Canada

Sergio Grinstein; Imaging Receptors, Signal Transduction and the Cytoskeleton During Phagocytosis; University of Toronto, Canada

André Veillette; SLAM Receptors and Immune Responses); IRCN, Canada

17:15-18:45 **Poster Mixer Session**



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Wednesday, July 20

8:30-10:00 **Plenary Session VI – Regulation of RNA & Proteins**

Dr. Andrew Fire, Nobel Laureate; Regulatory RNA; Stanford University, USA
Ulrich Hartl, Gairdner (2004); Molecular Chaperones in Protein Folding and Proteostasis Maintenance; Max Planck Institute of Biochemistry, Germany
Nahum Sonenberg, Gairdner (2008); Dysregulation of mRNA Translation by Signalling Pathways in Cancer and Neurodevelopmental Diseases; McGill University, Canada

10:00-10:45 **Break and Poster Viewing**

10:45-12:15 **Concurrent Sessions**

Session E1 – Cancer Cells and Kinases

Shoukat Dedhar; Integrin-Liked Kinase (ILK) Signaling in Development and Disease; BC Cancer Agency, Canada
Angel Nebreda; Regulation of Tumorigenesis by Stress Kinase Signaling; IRB, Spain
Other Speakers TBA

Session E2 – Apoptosis

Irene Diaz-Moreno; Cytochrome c: A Wolf in Sheep's Clothing; University of Sevilla, Spain
Xiaodong Wang; Apoptosis; National Institute of Biological Sciences, China
Other Speakers TBA

Session E3 – Metabolic Signaling

Federico Mayor; The GRK2 Signalling Hub in the Molecular Physiopathology of Obesity-Related Diseases; Centro de Biología Molecular, Spain
Patricia Bozza; Lipids and mTOR Signaling; FIOCRUZ, IOC, Brazil
Other Speakers TBA

12:30-13:30 **Posters, exhibits and lunch seminars**

13:45-17:30 **Free Afternoon; IUBMB, CSMB and PABMB Business Meetings/AGMs**

18:00-21:00 **Conference Dinner**

Special Dinner Presentation by James Randi: 'Magic, Illusion, Deception & Science'



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Thursday, July 21

8:30-10:00 **Plenary Session VII – Cancer Signaling Pathways**

Dr. Morag Park; Met Oncogene Signaling in Cancer; McGill University, Canada
Dr. Alexandra Newton; Reversing the Paradigm: Protein Kinase C as a Tumour Suppressor; University of California, San Diego, USA
Kang-yell Choi; Destabilization of Ras via Targeting the Wnt/beta-catenin Pathway is a Potential Therapy for Colorectal Cancer and Other Cancers
Activated Wnt/beta-catenin Signaling; Yonsei University, Korea

10:00-10:30 **Break and Poster Viewing**

10:30-12:00 **Concurrent Sessions**

Session F1 – Cellular Parasites

Stephen Beverley; Endogenous Parasite RNA Viruses; Washington University, USA

Ricardo Gazzineli (signaling in malaria infections); Universidade Federal de Minas Gerais, Brazil

Adriana Gruppi; Signaling in Regulatory B Cell Induction in Trypanosoma Cruzi Infection; CIBICI, Argentina

Another Speaker TBA

Session F2 – Metabolic Signaling and Diabetes

Antonio Zorzano; Mitochondria and Diabetes; University of Barcelona, Spa

Alicia Kowaltowski; Mitochondria, the Flexible; Universidade de São Paulo, Brazil

Other Speakers TBA

Session F3 – Membrane Transport

Wayne Lencer; Lectins and Small Molecule Transport); Harvard Medical School, USA

Elaine Leslie; Arsenic Transport by Multidrug Resistance Protein 1 (MRP1/ABCC1) is

Selectively Regulated by Phosphorylation and N-Glycosylation; University of Alberta,

Canada

Other Speakers TBA



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12:15-13:15 **Writing in Science Workshop**

Phillip Nagley; Monash University, Australia

13:30-15:00 **Concurrent Sessions**

Session G1 – Neurodegenerative Disease

Rogrigo Cunha; Mechanisms Operated by Caffeine and Adenosine A2A Receptors to Control Synaptic Plasticity and Neurodegeneration; Universidade de Coimbra, Portugal

Ana Mladenovic-Djordjevic; Cholesterol Homeostasis in the Brain: Link to the Alzheimer's Disease; University of Belgrade, Serbia

Other Speakers TBA

Session G2 – Post-translational Modifications

Shawn Li; Phosphotyrosine Profiling; Western University, Canada

Patrick O'Donoghue; Genetically Encoded Protein Phosphorylation; Western University,

Canada

Other Speakers TBA

Session G3 – Membrane Proteins

Jens Rettig; The Other Synapse: Calcium-Dependent Exocytosis in the Immune System;

Universität des Saarlandes, Germany

Nicolas Touret; Imaging of Receptor Proteins); University of Alberta, Canada

Other Speakers TBA

Session G4 – Cancer Stem Cells

Jim Woodgett; Dissecting the Role of the Wnt and Other Signaling Pathways in Liver Development and Disease; University of Toronto, Canada

Peter Dirks; Brain Cancer Stem Cells; Hospital for Sick Children, Canada

Other Speakers TBA

15:00-15:30 **Break**

15:30-17:00 **Plenary Session VIII – Membrane Proteins & Channels**

Speakers, Student Awards and Closing Ceremony

Joe Casey; SLC4A11- A Membrane Transport Protein Causing Corneal Blindness; University of Alberta, Canada



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Richard Zimmermann; Protein Biogenesis at the Human Endoplasmic Reticulum;
Universität des Saarlandes, Germany

Filip van Petegem; Regulation of Voltage-Gated Sodium Channels by Calcium
Ions and Auxiliary Subunits; University of British Columbia, Canada