

## PROGRAM

*Tuesday, Sept. 22*                    **OPENING CEREMONY**                    (18:00-18:30)  
The Laurens Van Deenen Lecture: **Robin IRVINE**                    (18:30-19:30)  
☑Adventures with inositides: the enigma of the PI5P 4-kinases.  
*Chair: Suzanne Jackowski*

Welcoming Reception                    (19:30)

*Wednesday, Sept. 23*  
*Chair: Nora Rotstein*                    Session: **Lipid Metabolism - Regulation**  
**Alfred MERRILL**                    (09:00-09:30)  
LY-B, we luv you: Studies of sphingoid base metabolism by mammalian cells that do not make them.  
**George CARMAN**                    (09:30-10:00)  
Phosphorylation regulates the Ubiquitin-independent degradation of Phosphatidate Phosphatase by the 20S Proteasome.

**Plenary Lecture: Yusuf HANNUN**                    (10:00-11:00)  
Neutral sphingomyelinases in cell regulation.  
*Chair: Norma Sterin-Speziale*

Coffee                    (11:00-11:30)

*Chair: Horacio Garda*                    Session: **Intracellular Lipid Trafficking**  
**Kentaro HANADA**                    (11:30-12:00)  
Phosphoregulation of lipid-transfer proteins: a lesson from the ceramide transfer protein CERT.  
**Antonella DE MATTEIS**                    (12:00-12:30)  
The phosphoinositides and the Golgi complex.  
**Enrique POLITI**                    (12:30-12:50)  
Docosahexaenoic acid (DHA) and sphingosine-1-phosphate (S1P) promote survival and spatial reorganization of photoreceptor neurons generated in vitro by Müller glia stem cells.  
*Selected Abstract*  
**BRANDSMA, Joost**                    (12:50-13:05)  
Lipidomic phenotyping of severe asthma.

LUNCH AND POSTERS                    (13:05-15:30)

Session: **Lipid Metabolism - Signaling**

*Chair: Mario Guido*

**Suzanne JACKOWSKI** (15:30-16:00)

Phosphatidylethanolamine synthesis: different pathways, different cellular targets.

**Lina OBEID** (16:00-16:30)

Role and Regulation of Sphingosine Kinases in cancer

**Benjamin NICHOLS** (16:30-16:50)

Flotillin membrane microdomains recruit sphingosine to control S1P signalling

**SALVADOR, Gabriela** (16:50-17:10)

Phosphoinositides: a two-path signaling in neuronal response to oligomeric amyloid  $\beta$  peptide.

*Selected Abstracts*

**MAHADEO, Mark** (17:10-17:25)

Visualization of domain organization in complex eukaryotic membrane extracts using Brewster Angle Microscopy.

**MAJEROWICZ, David** (17:25-17:40)

Insects as obesity models: influence of hormones and nuclear receptors on *rhodnius prolixus* lipid metabolism.

Coffee (17:40-18:00)

**Plenary lecture**

**The PABMB Lecture**

**Nicolás BAZAN** (18:00-19:00)

Molecular principles for docosahexaenoic acid retention and for cell survival bioactivity in the nervous system.

*Chair: Hugo Maccioni*

*Thursday, Sept. 24*

*Chair: Diego de Mendoza*

Session: **Non-mammalian lipid metabolism**

**Christian SOHLENKAMP** (09:00-09:30)

Enzymes involved in Ornithine Lipid Synthesis and Modification: From A to G and still counting.

**Teymuras KURZCHALIA** (09:30-10:00)

Identification of novel class of glycolipids that are required for the cholesterol transport in *C. elegans*."

**Hugo GRAMAJO** (10:00-10:30)

Dissecting the biochemistry and the regulation of mycolic acid biosynthesis in mycobacteria

**Charles ROCK** (10:30-11:00)

Role of fatty acid phosphorylation in metabolism and transcriptional regulation in bacterial pathogens.

*Selected Abstract*

**Emilio SAITA** (11:00-11:15)

A coiled coil switch mediates cold sensing by the thermosensory protein DesK

VISIT TO IGUAZU FALLS (11:30-18:00)

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Friday, Sept. 25

Chair: *Betina Córscico*

Session: **Chemistry and Physics of Lipids I**

**Francisco BARRANTES** (09:00-09:30)

Cholesterol-nicotinic acetylcholine receptor crosstalk at the nanoscale

**Richard PROIA** (09:30-10:00)

Imaging sphingolipid signaling in vivo.

**J Peter SLOTTE** (10:00-10:30)

New insights into the role of hydrogen bonding for the bilayer properties and behavior of sphingomyelins.

**VES-LOSADA, Ana** (10:30-10:50)

Nuclear arachidonic acid mobilization and release.

*Selected Abstract*

**BARCELÓ-COBLIJN, Gwendolyn** (10:50-11:05)

Tight regulation of lipid composition along human colonic mucosa revealed by mass spectrometry-based imaging techniques

Coffee (11:05-11:30)

Chair: *Marta Aveldaño*

Session: **Chemistry and Physics of Lipids II**

**Edgar KOIJMAN** (11:30-12:00)

The biophysics of phosphatidic acid and diacylglycerol pyrophosphate and their role in lipid signaling during the stress response of plants.

**Yuki NAKAMURA (EMBO Young Investigator Lecturer)** (12:00-12:15)

Phosphatidylcholine in arabidopsis: biosynthesis and function in plant growth and development

**Dov LICHTENBERG** (12:15-13:00)

Oxidative stress, the ill-defined term and the important concept

LUNCH AND POSTERS (13:00-15:30)

Chair: *José Luis Daniotti*

Session: **Protein Lipidation**

**Maurine E. LINDER:** (15:30-16:00)

Mechanism and function of DHHC palmitoyltransferases.

**Javier VALDEZ** (16:00-16:20)

Structure-function analyses of DHHC protein-palmitoyltransferases

*Selected Abstracts*

**ITO, Makoto** (16:20-16:35)

Biological significance of sterylglucoside metabolism in *Cryptococcus neoformans* and *Saccharomyces cerevisiae*.

**POSSE de CHAVES, Elena** (16:35-16:50)

Inhibition of protein prenylation is the cause of autophagy dysfunction in a model of Alzheimer's disease.

**FUELLEKRUG, Joachim** (16:50-17:05)

The function of ACSL3 in triglyceride synthesis and storage.

Coffee (17:05-17:30)

*Chair: María Gonzalez Baró*      Session: **Lipid Metabolism and Disease**  
**Kohey YUYAMA** (17:30-18:00)  
Function of ganglioside and sphingolipid-linked exosome secretion in sequestering Alzheimer's amyloid- $\beta$ .  
**Jelske VAN DER VEEN** (18:00-18:20)  
The protection against obesity and insulin resistance by PEMT deficiency.  
**Jean-Marie RUYSSCAHERT** (18:20-18:40)  
Lipid aggregates activate the immune system of plant and human cells.  
*Selected Abstracts*  
**RACCA, Ana** (18:40-18:55)  
Cytoplasmic Fra-1 and c-Fos: potential targets for specific breast cancer therapy  
**PICKHOLZ, Mónica** (18:55-19:10)  
Sumatriptan encapsulation in poloxamer micelles by molecular dynamics simulations

*Saturday, Sept. 26*

*Chair: Gerardo Fidelio*      Session: **Lipids and Membrane Dynamics**  
**Felix GOÑI** (09:00-09:30)  
Ceramides and diacylglycerols as modulators of membrane physical properties.  
**Massimo AURELI** (09:30-10:00)  
Glycosphingolipids in health and diseases: role of the plasma membrane composition and organization.  
**László VÍGH** (10:00-10:30)  
Membranes are thermometers: from molecular bases to therapeutic applications  
**Ernesto AMBROGGIO** (10:30-10:50)  
The effect of lipid packing and membrane curvature on protein binding and traffic.  
**WILKE, Natalia** (10:50-11:10)  
Determinants of the size and density of domains in lipid monolayers and their effect on membrane dynamics.  
  
Coffee (11:10-11:30)

Closing Lecture:      **THE EMBO KEYNOTE LECTURE**  
**Kai SIMONS** (11:30-12:30)  
Cell Membranes: Subcompartmentalization driven by phase separation  
*Chair: Peter Slotte*

Award Ceremony and Closing Ceremony (12:30-12:45)  
Presentation of the 57th ICBL 2016 (12:45-13:00)  
  
Farewell Argentine Barbeque (13:00 h)