

SPEAKERS

Conference speakers



Conference Hector Torres

Alejandro Colman Lerner

IFIBYNE, Conicet, Facultad Ciencias Exactas y Naturales, UBA, Argentina

“Information processing in signal transduction pathways”

Colman-Lerner group studies the molecular systems that govern asymmetric gene expression and transduction and signal processing in *Saccharomyces cerevisiae*



Conference Ranwel Caputto

Maria Elena Alvarez

CIQUIBIC-Conicet, Córdoba, Argentina

“Biochemical and molecular traits in plant disease resistance”

The primary goal of the Alvarez lab is to understand the two traits of defenses in the *Pseudomonas syringae* pv. tomato (Pst)- *Arabidopsis* model



Conference IUBMB

Jennifer Lippincott-Schwartz

Janelia Research Campus, Ashburn, Virginia, USA

“Dynamics of Membrane Trafficking, sorting, and compartmentalization within eukaryotic cells”

The Lippincott-Schwartz lab's goal is to understand the interplay of membrane-bound organelles, cytoskeletal structure, and metabolism as it relates to the organization and function of neurons, and the cells they interact with.



Conference Alberto Sols

Encarnacion Martinez Salas

Centro de Biología Molecular Severo Ochoa., Universidad Autónoma Madrid, España

“Translation initiation through IRES”

Martinez Salas group is interested in understanding alternative mechanisms for translation initiation. Internal ribosome entry sites (IRES) replace the 5' cap end function, which in typical mRNAs provides the anchoring site of the translation machinery.



Conference EMBO

F. Gisou van der Goot

Ecole Polytechnique Federale de Lausanne, School of Life Sciences, Switzerland

“Anthrax toxin receptors”

One of the goals of F. Gisou van der Goot is to determine the molecular mechanisms by which Anthrax toxin hijacks cellular mechanisms to achieve the most efficient intoxication.



Conference

Sean Munro

Medical Research Council, Laboratory of Molecular Biology, Cambridge, UK

“Small G proteins and the organization of the Golgi apparatus”

Munro’s lab is interested in how active G proteins are generated in a spatially restricted manner and what cytosolic proteins or 'effectors' then recognise them



Conference

Robert Gennis

University of Illinois at Urbana-Champaign, IL, USA

Robert Gennis laboratory studies the structure and function of cytochrome oxidase and other membrane respiratory complexes with the goal to understand how electron transfer is coupled to the generation of a transmembrane proton electrochemical gradient

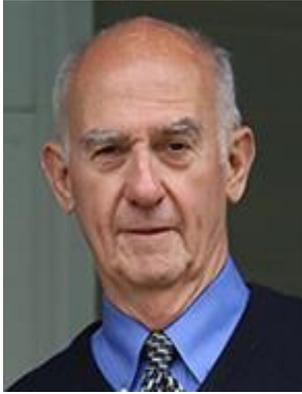


Conference

Bruno Amati

European Institute of Oncology, Milano, Italy

Bruno Amati’s group has a long-standing interest in the c-myc oncogene and its product, the Myc protein. In general terms, his research aims at explaining the oncogenic activity of Myc, its action on the genome, its effects on cell cycle progression, cell death and differentiation, the tumor suppressor pathways that antagonize it, and their impact on tumor progression and maintenance.



Conference
Philip Stahl

Washington University School of Medicine, St Louis, MO, USA

Dr. Stahl's has made contributions to the understanding of endocytosis, membrane trafficking and cell signaling. These include the discovery of a sugar-specific lysosomal enzyme clearance pathway, advances in the understanding of GTPases that regulate endosome fusion, endocytosis and receptor recycling, the discovery of the "exosome secretion pathway"

Symposia speakers
Symposium on Microbiology



Manuel Espinosa Padrón

Centro de Investigaciones Biológicas, CSIC, Madrid, España

Espinosa's lab is interested in two main subjects: 1) Horizontal genetic transfer in bacteria; 2) Toxins-antitoxin in *Streptococcus pneumoniae*.



Lici Schurig-Briccio

University of Illinois at Urbana-Champaign, IL, USA

The goal of Lici Schurig-Briccio is the study of the structure and mechanism of prokaryotic respiratory enzymes that generate a membrane potential



Viviana Andrea Rapisarda

Instituto Superior de Investigaciones Biológicas, Tucumán, Argentina

Rapisarda's group aim is to elucidate the mechanisms of action and cellular processes that are triggered in microorganisms by exposure to different environmental conditions. Their work is both in the field of basic and applied research, and it has a considerable public and regional interest

Symposia on Signal Transduction: "Understanding epigenetics: the contribution of different model organisms"



Jorge Casadesus

Depto de Genética, Facultad de Biología, Universidad de Sevilla, España

"Waddington's landscapes in the bacterial world"

Casadeus lab researches bacterial epigenetics, specifically non-mutational mechanisms that generate phenotypic lineages in bacterial populations. Such mechanisms to the formation of complex self-perpetuating DNA methylation patterns are diverse, ranging from the inheritance of relatively simple feedback loops



Paula Casati

CEFOBI, Univ Nacional Rosario, Rosario, Santa Fe, Argentina

"Shedding light on the role of histone chaperones during DNA damage after UV-B exposure in plants"

Research in the Casati's lab focuses on responses to UV-B in plants. Complex physiological changes occur in plants that modulate gene expression and consequently phenotypes in response to the radiation. One of her objectives is to study the role of chromatin in the repair of DNA damage by UV.



Ivan Marazzi

Icahn School of Medicine at Mount Sinai, New York, USA

"Genesis of neogenes and neoantigenes"

The Marazzi Laboratory studies epigenetic and chromatin-mediated control of gene expression in the context of the cellular response to pathogens or differentiation. They use biochemistry, genetics, and next generation sequencing techniques to understand molecular mechanisms and genome-wide effects of known and novel candidate genes.



Sophie Polo

Unité Epigenetique & Destin Cellulaire, Universitat Paris, Diderot, France

"Epigenome maintenance in response to DNA damage"

The research in her laboratory focuses on identifying the molecular agents that control the dynamics of histones and alterations in the structure and function of chromatin in response to genotoxic stress.

Cell Biology Symposium: " Intracellular Traffic and Organelle contact-sites"



Christian Ungermann

University of Osnabrück, Department of Biology/Chemistry, Germany

The goal of **the** Ungermann laboratory is to define the mechanism of organelle identity of endosomes and lysosomes using mainly yeast (*S.cerevisiae*) as a model system.



Antonella De Matteis

Department of Molecular Medicine and Medical Biotechnology University of Napoli, "Federico II" University, Naples, Italy.

One of her group's missions is to "apply" the basic knowledge of membrane trafficking to the study of Lowe syndrome and spondylo-epiphyseal dysplasia (SED) tarda disorders, diseases that arise from defects in membrane trafficking machinery. Her aim is to clarify the cellular and molecular pathogenesis of these disorders and to identify candidate drug targets. She is presently focusing on two disorders



Elizabeth Conibear

Department of Medical Genetics, University of British Columbia, Vancouver, Canada

Dr. Conibear studies the molecular machinery of human cellular transportation system and the traffic jams that cause disease. Her lab focuses on lipid and protein signaling pathways involved in neurological disorders like Alzheimer's disease and lysosomal storage diseases that affect childhood development.

Plant Symposium



Marisa Otegui

Lab Cell & Molecular Biology, Department of Botany, Department of Genetics University of Wisconsin-Madison, USA

Her research focuses on the regulation of vesicle trafficking mechanisms in plant cells. Her goal is to understand how cells control the flow of proteins and specialized metabolites between different cellular compartments



Jürgen Kleine-Vehn

Institute of Applied Genetics and Cell Biology (IAGZ),
Universität für Bodenkultur, Vienna, Austria

The Kleine-Vehn group aims to understand the importance of the ER for genomic auxin responses and characterize the internal signal regulating root system plasticity, using developmental genetics, physiological and cell biological procedures.

Lipid Symposium



Heinfried H. Radeke

Johann Wolfgang Goethe-Universität Frankfurt (Main), Pharmazentrum
Frankfurt, Institut für Allgemeine Pharmakologie und Toxikologie, Germany

His interest is focused on chronic inflammation, inflammation-driven carcinogenesis, dendritic cell signaling and function, chemokines and immune modulation by sphingolipids



Sayuri Miyamoto

Biochemistry Dept, Institute of Chemistry, University of São Paulo, Brazil

Currently the research in her laboratory is focused on the investigation of oxidized products formed from polyunsaturated fatty acids, in particular the docosahexaenoic acid (DHA, omega-3) present in large quantities in the brain. Her goal is to identify and quantify DHA oxidation / modification products in neurodegenerative diseases.



Gerardo Martín Oresti

INIBIBB, Bahía Blanca, Universidad Nacional del Sur, Argentina

His interest is related with the search of strategies for the development and study of in vitro spermatogenesis: role of the lipids with polyunsaturated fatty acids



Nelson Barrera

Faculty of Biological Sciences , Pontificia Universidad Católica de Chile,
Santiago, Chile

His research is related to the structure and function of membrane proteins, in particular, determining how structural interactions between these proteins can trigger a molecular and cellular "cross-talk". This task is essentially multidisciplinary and therefore requires a combination of different methods including the development of new theoretical, structural and functional approaches.