

PROGRAM

LX Annual Meeting of the Argentine Society for Biochemistry and Molecular Biology Research (SAIB)

Del 5 al 8 de noviembre de 2024
**Pabellón Argentina de la UNC,
Ciudad de Córdoba, Argentina.**



TUESDAY, November 5, 2024

14:30–16:30. Registration

16:30–16:45. Opening Ceremony

Sala de las Américas

16:45–18:00. "IUBMB" Plenary Lecture

Sala de las Américas

Dr. Raphael Valdivia

Department of Integrative Immunobiology, Duke University School of Medicine, Durham, USA

"THE BIOLOGY OF THE EMERGING PROBIOTIC *Akkermansia muciniphila* IN THE GASTROINTESTINAL TRACT AND ITS IMPACT ON HUMAN HEALTH"

Chairperson: Dr. Héctor Alex Saka

18:00–19:15. "Alberto Sols" Plenary Lecture

Sala de las Américas

Dr. Juan Hermoso

Department of Crystallography and Structural Biology. CSIC. Madrid. Spain

"BEYOND STRUCTURES: DECIPHERING THE REGULATORY INTERPLAY BETWEEN CELL-WALL DEGRADING MACHINERY AND BACTERIAL CELL DIVISION"

Chairperson: Dr. Eduardo Ceccarelli

19:15–19:45. Celebration 60th Anniversary of SAIB Congress

Sala de las Américas

20:00–22:00. Welcome Cocktail

Hall Central

WEDNESDAY, November 6, 2024

08:30–10:30. Oral Communications

Microbiology/Cell Biology (I). Sala de las Américas
Lipids. Salón de Actos

10:30–11:00. Coffee–Break

11:00–12:15. Plenary Lecture

Sala de las Américas

Dr. George O’Toole

Geisel School of Medicine at Dartmouth, USA

“TO BUILD A BIOFILM: POLYMICROBIAL COMMUNITIES IN CYSTIC FIBROSIS”

Chairperson: Dr. Julieta Fernández

12:15–14:30. Lunch Time

14:30–16:30. Microbiology Symposium

Sala de las Américas

Chairpersons: Dr. Laura Delgui – Dr. Federico Sisti

14:30–15:10

Dr. Diego O. Serra

Instituto de Biología Molecular y Celular de Rosario (IBR-CONICET).

**“MICROBIAL WARFARE: MOLECULAR INSIGHTS INTO TARGETED
INHIBITION AND DEFENSIVE ENHANCEMENT OF MATRIX
COMPONENTS IN ATTACKED *E. coli* BIOFILMS”**

15:10–15:50

Dr. Paola Scavone

*Instituto de Investigaciones Biológicas Clemente Estable, Montevideo,
Uruguay.*

**“DEVELOPMENT OF STATIC AND DYNAMIC IMAGING APPROACHES FOR
BIOFILM ARCHITECTURE AND FUNCTION EVALUATION”**

15:50–16:30

Dr. Marisa Gómez

*Centro de Estudios Biomédicos, Básicos, Aplicados y Desarrollo
(CEBBAD), Universidad Maimónides*

**“*Hylococcus aureus* ADAPTATION TO THE BONE MICROENVIRONMENT
INVOLVES GENOTYPICAL AND PHENOTYPICAL CHANGES”**

14:30–16:30. Lipids Symposium

Salón de Actos

Chairpersons: Dr. Silvia Belmonte – Dr. Lucila Pescio

14:30–15:00

Dr. Cecilia I. Casali

Instituto de Química y Fisicoquímica Biológicas (IQUFIB), UBA-CONICET

“CYCLOOXYGENASE 2 (COX2): THE GOOD AND THE EVIL”

15:00–15:30

Dr. Claudia Banchio

Instituto de Biología Molecular y Celular de Rosario (IBR-CONICET).

“PHOSPHATIDYLCHOLINE: A KEY INDUCER OF NEURONAL DIFFERENTIATION AND PLASTICITY UNDER STRESS CONDITIONS”

15:30–16:00

Dr. Claudio Bernal

Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral.

“N-3 PUFA-RICH FUNCTIONAL LIPIDS: MECHANISMS OF ACTION IN THE PREVENTION OF MAFLD IN A MURINE MODEL”

16:00–16:30

Dr. Gwendolyn Barceló-Coblijn

Health Research Institute of the Balearic Islands (IdISBa), Palma, Balearic Islands, Spain.

“DETAILED IMMUNE LANDSCAPE ANALYSIS IN COLON CANCER THROUGH ADVANCED LIPIDOMICS: INSIGHTS FROM CIRCULATING IMMUNE CELLS TO TUMOR INFILTRATION”

14:30–15:30. Methodological advances Symposium

Auditorio Rébora (Facultad de Arquitectura)

Chairperson: Dr. Paula Casati

14:30–15:00

A. Chánique

Kura Biotech

“UPGRADING KURA’S PROTEIN ENGINEERING PLATFORM TO IMPROVE THE ACTIVITY OF TWO ENZYMES OF INDUSTRIAL INTEREST”

15:00–15:30

M.C. Marin

OneLab Solutions SA

“INNOVATIVE MICROBIAL AND CELLULAR CHARACTERIZATION SOLUTIONS: HARNESSING BIOLOG’S PREBIOM TECHNOLOGY FOR MICROBIOME RESEARCH”

16:30–17:00. Coffee-Break

17:00–18:15. Plenary Lecture

Sala de las Américas

Dr. Gabriela Salvador

*Instituto de Investigaciones Bioquímicas de Bahía Blanca (INIBIBB-CONICET) -
Universidad Nacional del Sur (UNS)*

“LIPID REWIRING IN NEURODEGENERATIVE PROCESSES”

Chairperson: Dr. Ariel Quiroga

**18:15–20:00. Posters Microbiology (MI), Lipids (LI), Biotechnology (BT),
Enzymology (EN).**

19:00–22:00. SAIB Assembly

Sala de las Américas

THURSDAY, November 7, 2024

08:30–10:30. Oral Communications

Plants. Sala de las Américas

Signal Transduction. Salón de Actos

SSOR

10:30–11:00. Coffee–Break

11:00–12:15. “Ranwel Caputto” Plenary Lecture

Sala de las Américas

Dr. María Fabiana Drincovich

Centro de Estudios Fotosintéticos y Bioquímicos (CEFOBI; CONICET – Universidad Nacional de Rosario).

“METABOLIC ENGINEERING OF MALATE LEVELS TO IMPROVE PLANT PERFORMANCE AND RESILIENCE IN A CHANGING CLIMATE”

Chairperson: Dr. Paula Casati

12:15–14:30. Lunch Time

14:30–16:30. Plants Symposium

Sala de las Américas

Chairpersons: Dr. María Inés Zanor – Dr. Elina Welchen

14:30–15:00

Dr. Laszlo Szabados

Institute of Plant Biology, HUN–REN BRC, Szeged, Hungary

“REGULATORY GENES WHICH CONTROL RESPONSES TO DROUGHT AND SALINITY IN HIGHER PLANTS”.

15:00–15:30

Dr. Anabella Lodeyro

Instituto de Biología Molecular y Celular de Rosario (IBR–CONICET–UNR).

“REDESIGNING CHLOROPLAST ELECTRON TRANSPORT: IMPACTS ON STRESS TOLERANCE AND LEAF DEVELOPMENT”

15:30–16:00

Dr. Pablo Cerdán

Fundación Instituto Leloir, IIBBA–CONICET.

“MEDIATOR COMPLEX IN BALANCING GROWTH AND STRESS RESPONSES”

16:00–16:30

Dr. Carlos García Mata

Instituto de Investigaciones Biológicas, CONICET.

"EMERGING ROLE OF HYDROGEN SULFIDE (H₂S) AS A STOMATAL IMMUNITY MODULATOR"

14:30–16:30. Signal Transduction Symposium

Salón de Actos

Chairpersons: Dr. Andres Dekanty – Dr. María Ana Contin

14:30–15:00

Dra. Nara Guisoni

Centro Regional de Estudios Genómicos (CREG), UNLP – CONICET.

"GENE REGULATORY NETWORK MODELS TO STUDY PATTERN FORMATION: THE MATHEMATICS OF SYMMETRY BREAKING"

15:00–15:30

Dr. Pablo H. Strobl-Mazzulla

Instituto Tecnológico de Chascomús (INTECH), CONICET-UNSAM.

"UNVEILING NEURAL CREST-PLACODE CONDENSATION DURING TRIGEMINAL GANGLION FORMATION: THE CRUCIAL ROLE OF MICRORNAS AND EXTRACELLULAR VESICLES"

15:30–16:00

Dr. Maria Fernanda Ledda

Instituto Leloir, Buenos Aires, Argentina.

"NEUROTROPHIN SIGNALING IN SENSORY NEURON DEVELOPMENT"

16:00–16:30

Dr. Pablo Wappner

Instituto Leloir, Buenos Aires, Argentina.

"AUTOPHAGY CONTROLS DIFFERENTIATION OF DROSOPHILA BLOOD CELLS BY REGULATING NOTCH LEVELS IN RESPONSE TO NUTRIENT AVAILABILITY"

14:30–16:30. Young Investigators I Symposium

Auditorio Rébora (Facultad de Arquitectura)

Chairpersons: Dr. Laura Delgui – Dr. María Mora González López Ledesma

14:30–15:00

Dr. Martiniano M. Ricardi

IFIBYNE-UBA-CONICET.

"A TYROSINE PHOSPHO-SWITCH WITHIN THE LONGIN DOMAIN OF VAMP721 MODULATES SNARE FUNCTIONALITY"

15:00–15:30

Dra. Jéssica Belén Flores Martín

Centro de Investigaciones en Bioquímica Clínica e Inmunología (CIBICI-CONICET).

“STARD7: BEYOND ITS ROLE OF A LIPID TRANSPORT PROTEIN”

15:30–16:00

Dr. Ignacio Lescano López

Unidad de Estudios Agropecuarios (UDEA-CONICET-INTA).

“AUTOPHAGY AND DEFENSE SIGNALING IN ARABIDOPSIS UNDER HIGH TEMPERATURES”

16:00–16:30

Dra. Valentina Salzman

Instituto de Fisiología, Biología Molecular y Neurociencias (IFIBYNE-CONICET).

“PLASMA MEMBRANE NANODOMAINS DISASSEMBLY INCREASES YEAST’S LIFESPAN”

16:30–17:00. Coffee-Break

17:00–18:15. “PABMB” Plenary Lecture

Sala de las Américas

Dr. Hailing Jin

Center for Plant Cell Biology, Institute for Integrative Genome Biology, University of California, Riverside, Riverside, CA, USA.

“CROSS-KINGDOM RNA COMMUNICATION”

Chairperson: Dr. María E. Alvarez

18:15–20:00. Posters Plants (PL), Signal Transduction (ST), Structural Biology (SB).

FRIDAY, November 8, 2024

08:30–10:30. Oral Communications

Cell Biology (II). Sala de las Américas

Plants/Biotechnology/Structural Biology/Neurosciences. Salón de Actos

10:30–11:00. Coffee Break

11:00–12:15. Plenary Lecture

Sala de las Américas

Dr. María Castro

Rogel Cancer Center, University of Michigan Medical School

“MECHANISMS THAT LEAD TO REPROGRAMMING OF THE IMMUNE MICROENVIRONMENT IN MUTANT IDH1 GLIOMAS AND THEIR IMPACT ON IMMUNE MEDIATED THERAPIES”

Chairperson: Dr. Mario Guido

12:15–14:30. Lunch Time

14:30–16:30. Cell Biology Symposium

Sala de las Américas

Chairpersons: Dr. Carolina Touz- Dr. Mauricio Martín

14:30–15:00

Dr. Cecilia Conde

Cellular and Molecular Neurobiology Department – INIMEC.

“SUPER-RESOLUTION REVEALS NEW ENDOSOMAL VESICLES IN NEURONS”

15:00–15:30

Dr. Lucas J. Sosa

Centro de Investigaciones en Química Biológica de Córdoba (CIQUIBIC-CONICET).

“TRISOMY PANEL OF APP DEPLETED IPSC CELL LINES SHOWS DISTINCTIVE PATTERN OF DIFFERENTIATION TO NEURONS”

15:30–16:00

Dr. Isabel Yuseff

Pontificia Universidad Católica de Chile. Santiago, Chile.

“MECHANOTRANSDUCTION BY B CELLS TUNES ANTIGEN EXTRACTION AND PRESENTATION BY COUPLING TUBULIN ACETYLATION TO LYSOSOME DYNAMICS”

16:00–16:30

Dr. Arlinet Kierbel

Instituto de Investigaciones Biotecnológicas (UNSAM-CONICET).
**"PSEUDOMONAS AERUGINOSA-HOST CELLS INTERACTION: SWIMMING,
TWITCHING, AND SNEAKY MOVES"**

14:30-16:30. Molecular Biology of Cancer Symposium

Salón de Actos

Chairpersons: Dr. Marianela Candolfi – Dr. Cesar Pucca

14:30-15:10

Dr. Marianela Candolfi

*Instituto de Investigaciones Biomédicas, Facultad de Medicina,
Universidad de Buenos Aires.*

"EXPLORING TUMOR INTRINSIC EFFECTS OF FOXP3 IN GLIOBLASTOMA"

15:10-15:50

Dr. Guillermo Agustín Videla Richardson

Laboratorio de Glicomedicina, IBYME-CONICET

*Laboratorio de Investigación Aplicada a Neurociencias (LIAN), INEU-
CONICET, FLENI.*

"ROLE OF GALECTIN-1 IN PATIENT-DERIVED GLIOBLASTOMA MODELS"

15:50-16:30

Dr. Cesar G. Pucca

CIQUBIC (UNC-CONICET).

**"OVERCOMING THE CHALLENGES FOR CAR T-CELL IMMUNOTHERAPY
AGAINST GLIOBLASTOMA"**

14:30-16:30. Young Investigators II Symposium

Auditorio Rébora (Facultad de Arquitectura)

Chairpersons: Dr. Nicolás Cecchini- Dr. Ana Racca

14:30-15:00

Dr. María Mora Gonzalez López Ledesma

Fundación Instituto Leloir-IBBA.

**"BREAKING DOWN THE ANTIVIRAL EVASION STRATEGIES OF DENGUE
VIRUS"**

15:00-15:30

Dr. Cristian Pocognoni

*Instituto de Histología y Embriología de Mendoza (IHEM), Universidad
Nacional de Cuyo.*

**"STUDY OF NAPHTHOFLORESCEIN AS A NOVEL ANTIVIRAL AGAINST
ZIKA VIRUS INFECTION".**

15:30–16:00

Dra. Constanza Feliziani

Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC.

**“IVERMECTIN-INDUCED CYTOTOXICITY AND PROGRAMMED CELL DEATH
IN *Giardia lamblia*: MECHANISMS AND THERAPEUTIC POTENTIAL”**

16:00–16:30

Dra. Andrea Méndez

Instituto de Biología Molecular y Celular de Rosario.

**“MANAGING METAL/REDOX HOMEOSTASIS AT THE *Salmonella*
ENVELOPE: THE ROLE OF THE SCS SYSTEM OF THIOREDOXINS AND ITS
IMPORTANCE FOR VIRULENCE”**

16:30–17:00. Coffee-Break

17:00–18:45. Posters Cell Biology (CB), Neurosciences (NS).

19:00–20:15. Plenary Lecture

Sala de las Américas

Dr. Juan Bonifacino

*Eunice Kennedy Shriver National Institute of Child Health and Human
Development (NICHD), National Institutes of Health (NIH), Bethesda, Maryland,
USA.*

**“MECHANISMS OF AXON DYSFUNCTION IN LYSOSOME-TRANSPORT
DISORDERS”**

Chairperson: Dr. Cecilia Alvarez

20:15–21:00. Awards and Closing Ceremony

Sala de las Américas