



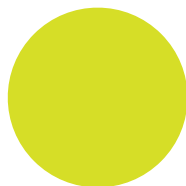
**CONGRESO  
SAIB 2022**

Cronograma de  
Comunicaciones Orales  
**Oral Communications  
Schedule**



**SAIB**

Sociedad Argentina de  
Investigaciones en Bioquímica  
y Biología Molecular



## ORAL COMMUNICATIONS – Wednesday, November 9<sup>th</sup>

Room "Sala Plumerillo"

### PLANTS

Chairpersons: Matías D. Hartman, Anabella Lodeyro

8:30

PL-01

#### **MBD1, MBD2, MBD3 and MBD4 proteins participate in abiotic stress responses**

*Giustozzi, Marisol; Qüesta, Julia; Casati, Paula*

8:45

PL-02

#### **Unravelling the contribution of mesophyll and bundle sheath chloroplasts to increased stress tolerance**

*Demarchi, Mariana; Arce, Rocío Cecilia; Campi, Mabel; Chan, Raquel Lía; Carrillo, Néstor, Lodeyro, Anabella Fernanda*

9.00

PL-03

#### **A complex interplay between the transcription factors AtHB23, AtPHL1 and AtMYB68 fine tunes Arabidopsis lateral and primary root development and adaptation to salinity**

*Spies FP, Perotti MF, Jo CI, Hong JC, Chan RL*

9:15

PL-04

#### **Regulatory networks established by TCP and GLK transcription factors during Arabidopsis seedling development**

*Alem, Antonela; Gonzalez, Daniel; Viola, Ivana*

9:30

PL-05

#### **An Oomycete effector alters plant immunity and development by manipulating auxin signaling**

*Bogino, María Florencia; Wirthmueller, Lennart, Fabro, Georgina*

9:45

PL-06

#### **Identification of molecular mechanisms associated with increased yield caused by mechanical treatment in *Arabidopsis thaliana***

*Raminger, Lorena; Chan, Raquel; Cabello, Julieta.*

10:00

PL-07

#### **Mitochondrial genome recombination and repair in plant somatic hybrids**

*Gandini, Carolina Lia; Garcia, Laura Evangelina, Sanchez-Puerta, M. Virginia*

Room "Sala Magna"

## **MICROBIOLOGY**

Chairpersons: María Corvi – Laura Delgui

8:30

MI-01

**The antifungal peptide SmAP $\alpha$ 1-21 derived from the  $\alpha$ -core of plant defensin DefSm2-D induces cell-wall stress, membrane permeabilization, peroxisome biogenesis, oxidative stress and cell death in *Fusarium graminearum* conidia. Role of His 19 in peptide internalization**

*Fernández, Agustina; Malbrán, Ismael; Guzmán, Fanny; Bakás Laura; Vairo Cavalli Sandra*

8:45

MI-02

**Contrasting study among Trypanosomatids reveals conserved chromatin organization around trans splicing-acceptor site**

*Zambrano Siri, Romina Trinidad; Beati, Paula; Smircich, Pablo; Alonso, Guillermo Daniel; Ocampo, Josefina*

9.00

MI-03

**EVASION OF THE CELLULAR IMMUNE RESPONSE BY THE NS5 PROTEIN OF THE DENGUE VIRUS. IMPACT ON THE PATHOGENESIS OF THE FOUR SEROTYPES FOR A RATIONAL DESIGN OF TETRAVALENT VACCINES**

*Gonzalez Lopez Ledesma, María Mora; Costa Navarro, Guadalupe; Pallares, Horacio; De Maio, Federico; Iglesias, Gabriel; Gebhard, Leopoldo; Paletta, Ana; Giraldo Giraldo, María; Rajsbaum, Ricardo; Ceballos, Ana; Gamarnik, Andrea*

9:15

MI-04

**Analysis of histones epigenetic marks across the *Giardia lamblia* cell cycle**

*Díaz-Perez Luciano, Patolsky Rocío, Segovia Caterina, Touz María Carolina and Rópolo Andrea*

9:30

MI-05

**Characterization of Cysteine-rich protein families of *Giardia lamblia* and their role during antigenic variation**

*Molina, Cecilia Rita; Luján Lucas Agustín; Rodríguez-Walker, Macarena; Saura Alicia; Fernández, Elmer; Luján, Hugo Daniel.*

9:45

MI-06

**Antibodies to protozoan variable surface antigens induce antigenic variation**

*Luján Lucas Agustín; Molina, Cecilia Rita; Iribarren, Paula; Saura, Alicia; Midlej, Victor; De Sousa, Wanderley; Álvarez, Vanina; Luján, Hugo Daniel.*

10:00

MI-07

**The SARS-CoV-2 mutation landscape is shaped by niche environmental factors**

*Masone, Diego; Ruis, Christopher; Hinrichs, Angie S.; Alvarez, Maria Soledad; Polo, Luis Mariano*

*Room "Sala Horcones"*

**LIPIDS - NEUROSCIENCES**

*Chairpersons: Lucila Gisele Pescio - Gerardo Martín Oresti*

8:30

LI-01

**The pair ceramide-1-phosphate/ceramide kinase regulates intracellular calcium concentration during sperm exocytosis**

*Vaquer, Cintia Celina; Suhaiman, Laila; Pavarotti, Martín; De Blas, Gerardo; Belmonte, Silvia Alejandra.*

8:45

LI-02

**The biosynthesis of sphingolipids with very-long-chain PUFA is enhanced by testosterone in spermatogenic cells**

*Santiago Valtierra, Florencia Ximena; Paternolli, Aldana; Oresti, Gerardo Martín*

9:00

LI-03

**Fusion of micron-size vesicles: interplay between the mitochondrial Mfn2 protein and lipids**

*Peñalva, Daniel A.; Monnappa, Ajay K<sup>2</sup>; Natale, Paolo; López-Montero, Iván*

9:15

LI-04

**Cytosolic phospholipase A2 modulates triacylglycerides accumulation in renal cells under osmotic stress through arachidonic acid-PPAR $\gamma$  axis**

*Parra, Leandro; Zerpa, Andrea; Erjavec, Luciana; Casali Cecilia; Setton-Avruj, Patricia; Fernández María del Carmen*

9:30

LI-05

**Resveratrol effect on renal osmoprotection: Modulation of COX-2 expression**

*Erjavec, Luciana Cecilia; Casali, Cecilia Irene; Parra, Leandro Gastón; Recabarren, Manuel; Fernández, María del Carmen*

9:45

LI-06

**FPR2/ALX signaling and their lipid mediator pathways: pleiotropic roles in neurotoxicity.**

*Benzi Juncos, Oriana Nicole; Alza, Natalia Paola; Salvador, Gabriela Alejandra*

10:00

NS-01

**Assembly of mitochondrial complexes in the brain of a rat model of Alzheimer**

*Novack GV, Galeano P, Castaño EM, Cuello AC, Morelli L*

10:15

NS-02

**Addressing the molecular signatures of selective vulnerability to Parkinson's disease using cell-type specific  $\alpha$ -syn expression and single-nucleus RNA-seq**

*Arcuschin, Camila D.1,2; Lantheaume, Alexia3; Salehi, Saeede3; Zare, Abdolhossein3; Briese, Michael3; Tovote, Philip3; Espósito, María Soledad4\* and Schor, Ignacio E.1,2\**

## ORAL COMMUNICATIONS – Thursday, November 10<sup>th</sup>

Room "Sala Magna"

### PLANTS

Chairpersons: Damian Cambiagno – María Virginia Sanchez Puerta

8:30

PL-08

#### **Contribution of proline metabolism to the control of cellular redox homeostasis under biotic stress in Arabidopsis**

*Cislaghi, Ana Paula; Álvarez María Elena*

8:45

PL-09

#### **IDENTIFICATION AND CHARACTERIZATION OF ZMS5H: ELUCIDATION OF ITS ROLE IN BIOTIC STRESS RESPONSE.**

*Serra, P., Righini Aramburu, S., Dillon, F., Grotewold, E., Falcone Ferreyra, M.L., Casati, P.*

9.00

PL-10

#### **Elucidating the molecular mechanisms of the temperature short-term memory in Arabidopsis plants**

*Murcia, Germán; Nieto, Cristina; Sellaro, Romina; Prat, Salomé; Casal, Jorge*

9:15

PI-11

#### **Connection between CYTOCHROME c and the TOR pathway to regulate growth in Arabidopsis**

*Canal, María Victoria; Mansilla, Natanael; Gras, Diana; González, Daniel; Welchen, Elina*

9:30

PL-12

#### **Autophagy modulates growth and development in the moss *Physcomitrium patens***

*Pettinari, Georgina; Finello, Juan; Plaza Rojas, Macarena; Liberatore, Franco; Robert, Germán; Otaiza-González, Santiago; Velez, Pilar; Theumer, Martin; Agudelo-Romero, Patricia; Enet, Alejandro; Gonzalez, Claudio, Lascano, Ramiro; Saavedra, Laura*

9:45

PL-13

#### **Chloroplast redox status modulates the cell expansion phase of leaf development associated to changes in proteasome activity and endoreduplication index**

*Rocío C. Arce, Martín L. Mayta, Michael Melzer, Mohammad-Reza Hajirezaei, Anabella F. Lodeyro, Néstor Carrillo*

Room "Sala Plumerillo"

## **MICROBIOLOGY**

Chairpersons: Alejandra Mussi y Matías Asención Díez

8:30

MI-08

### **MliR, a novel MerR-like regulator of iron uptake, impacts metabolism, membrane remodeling and cell adhesion in the marine Bacteroidetes *Bizionia argentinensis***

*Pellizza, Leonardo \**, *Bialer, Magalí Graciela \**, *Sieira, Rodrigo, Arán, Martín,\* Pellizza and Bialer* equally contributed to this work

8:45

MI-09

### **The polysaccharides degrading mechanisms of two soil bacterial isolates**

*Topalian, Juliana; Ontañon, Ornela; Navas, Laura; Valacco, M. Pía; Campos Eleonora*

9.00

MI-10

### **Characterization of the protective response to FtsA imbalance-induced lysis in *Streptococcus pneumoniae***

*Olivero NB, Cortes PR, Hernández Morfa M, Zappia VE, Jaime A, Echenique J.*

9:15

MI-11

### **IMPACT OF DNA POLYMERASE IV ON GENOME EVOLUTION IN THE OPPORTUNISTIC PATHOGEN *PSEUDOMONAS AERUGINOSA***

*Castell, Sofía Daiana; Tumas, Ignacio Nicolás; Miserendino, María Clara; Pezza, Roberto Jose; Ceschin, Danilo Guillermo, Monti, Mariela Roxana.*

9:30

MI-12

### **INFLUENZA-INFECTED CELLS INCREASE LEVOFLOXACIN TOLERANCE OF *STREPTOCOCCUS PNEUMONIAE***

*Hernández-Morfa M., Reinoso-Vizcaíno N., Olivero N., Zappia V., Cortes P., Jaime A; J. Echenique.*

9:45

MI-13

### **Rate and molecular structure of DNA direct repeats rearrangements in *P. aeruginosa*.**

*Moro, Camila; Monti, Mariela; Pezza, Roberto; Argaraña, Carlos I.*

10:00

MI-14

### ***PSEUDOMONAS AERUGINOSA* ADHERES TO APOPTOTIC CELLS THROUGH A FUNCTIONAL TYPE IV PILI FORMING STABLE CLUSTERS**

*Dea, Celeste; Pepe, María Victoria; Roset, Mara; Peruani, Fernando; Kierbel, Arlinet*

Room "Sala Horcones"

**CELULAR BIOLOGY**

Chairpersons: Laura Delgui – Luciana Balboa

8:30

CB-02

**FOXO-mediated Repression of DICER-1 Regulates Metabolism and Stress Resistance in Drosophila**

*Ingaramo, Ma. Clara; Sanchez, Juan Andrés; Gerve, Paula; Dekanty, Andrés*

8:45

CB-04

**SPECIALIZED POLYMERASE IOTA MAINTAINS GENOMIC STABILITY BY PREVENTING EXCESS PRIMPOL-DRIVEN DNA REPLICATION**

*Venerus Arbilla, Sofía<sup>1</sup>; Mansilla, Sabrina Florencia<sup>1</sup>; Bertolin, Agostina<sup>2</sup>; Siri, Sebastián Omar<sup>1</sup>; De la Vega, María Belén<sup>1</sup>; Wiesmüller, Lisa<sup>3</sup>; Gottifredi, Vanesa<sup>1</sup>*

9.00

CB-06

**INHIBITORS OF ROCK KINASES INDUCE MULTIPLE MITOTIC DEFECTS AND SYNTHETIC LETHALITY IN BRCA2-DEFICIENT CELLS**

*Siri, Sebastian\*; Mares Ahlers, Candelaria\*; Gottifredi, Vanesa*

9:15

CB-08

**Use of Translesion DNA synthesis inhibition as a sensitizer of tumor cells**

*Okraïne, Yiovana Verónica; de la Vega, María Belén; Mansilla, Sabrina; Gottifredi, Vanesa*

9:30

CB-10

**SHORT NUCLEOTIDE VARIANTS ON G-QUADRUPLEXES AS A CAUSE OF ONCOGENES TRANSCRIPTIONAL EXPRESSION VARIATIONS.**

*Piga, Ernesto.; Bezzi, Georgina.; Lorenzatti, Agustin.; Binolfi, Andres.; Calcaterra, Nora.; Armas, Pablo.*

9:45

CB-12

**ACYL-COA SYNTHETASE 4 MODULATES MITOCHONDRIAL FUNCTION AND METABOLISM IN BREAST CANCER CELLS.**

*Benzo, Yanina ; Prada, Jesica G.; Dattilo Melina A.; López, Paula F; Castillo, Ana F<sup>1</sup>; Mori Sequeiros García, M. Mercedes; Ringelmann Sanchez, Paola ; Poderoso, Cecilia; Maloberti, Paula M.*

10:00

CB-14

**Role of nuclear O-GalNAc glycosylation in CHO cells**

*Garay, Yohana ; Irazoqui, Fernando*

## ORAL COMMUNICATIONS – Friday, November 11<sup>th</sup>

Room “Sala Plumerillo”

### PLANTS – BIOTECHNOLOGY

Chairpersons: Laura Lucía Saavedra Borelli

8:30 PL-14

#### **Circular foreign mitochondrial DNA in the mitochondria of parasitic plants**

*Roulet, Maria Emilia; Ceriotti, Luis Federico; Sanchez-Puerta, Maria Virginia*

8:45 PL-15

#### **The immune receptor BNT1 is involved in *Myzus persicae* infestation of *Arabidopsis***

*Peppino Margutti, Micaela; Silva-Sanzana, Christian, Palomeque, Julieta, Herrera Vasquez, Ariel; Blanco-Herrera Francisca; Cecchini Nicolas.*

9.00 PL-16

#### **AtHB40 AND AtHB53 PLAY A ROLE IN ROOT DEVELOPMENT AND NaCl RESPONSE**

*Mora, Catia Celeste; Chan, Raquel Lía*

9:15 PL-17

#### **A de novo diploid genome assembly allows dissecting the transcriptomic differences underlying the clonal phenotypic diversity in cultivar ‘Malbec’**

*Calderón, Luciano; Carbonell-Bejerano, Pablo; Muñoz, Claudio; Bree, Laura; Sola, Cristobal; Bergamin, Daniel; Gomez-Talquenca, Sebastian; Ibañez, Javier; Martínez-Zapater, José Miguel; Weigel, Detlef, Lijavetzky, Diego*

9:30 BT-01

#### **BIOSENSING PERFORMANCE OF THREE DIFFERENT WHOLE CELL BIOSENSOR BASED ON LEAD-RESPONSIVE TRANSCRIPTION FACTORS**

*Gándola Yamila, Alvarez Macarena, Gasulla Javier, Nadra Alejandro D.*

Room “Sala Magna”

### CELULAR BIOLOGY

Chairpersons: Natalia de Miguel – Andres Dekanty

8:30 CB-01

#### **Soluble factors from radiation-induced senescent tumor cells reduces growth of non-irradiated tumor cells**

*Salvarredi, Leonardo. Agüero, Hector, Buscema, Vanesa Callegari, Eduardo Castro, Claudia, Lopez, Luis*

8:45

CB-03

**CHARACTERIZATION AND BIOLOGICAL ACTION OF POLYETHYLENE GLYCOL-COATED  
MAGNETITE NANOPARTICLES IN A CELLULAR MODEL OF VIRAL ONCOGENESIS**

*Principe, G; Lezcano, V; Tiburzi, S; Miravalles, AB; Rivero, S; Montiel Schneider, MG; Lassalle, V; González Pardo, V*

9.00

CB-05

**Pharmacological modulation of the circadian clock as a novel strategy to treat  
glioblastoma**

*Wagner Paula M; Guido Mario E*

9:15

CB-07

**Tubulin as a regulator of Phosphatidylserine exposure in red blood cells and its impact  
on haemorrhage.**

*Balach, Melisa Micaela; Etcheverry, Micaela; Monesterolo, Noelia Edith; Santander, Verónica Silvina, Rivelli Antonelli, Juan Franco; Ureta Miralla, Lucia Belen; Casale, César Horacio; Campetelli Alexis Nazareno.*

9:30

CB-09

**URSOLIC ACID NEGATIVELY MODULATES THE LIPID DROPLET METABOLISM, A KEY  
COMPONENT OF THE ROTAVIRUS INFECTION**

*Tohmé, M. Julieta; Converti, Ayelen; Caruso, Benjamín; Wilke, Natalia; Colombo, M. Isabel; Delgui, Laura R.*

9:45

CB-11

**EFFECT OF OLIGODEOXYNUCLEOTIDE IMT504 ON MURINE  $\beta$ -CELLS**

*Converti, Ayelén; Bianchi, M. Silvia; Montaner, Alejandro; Lux-Lantos, Victoria; Bonaventura, M. Marta; Delgui, Laura*

10:00

CB-13

**Characterization of the immune response against recombinant Tacaribe arenaviruses  
as new vaccine candidates to prevent Argentinean hemorrhagic fever**

*Gallo, Giovanna; Chiale, Carolina; Sepúlveda, Claudia; Brignone, Julia; Gamboa, Laura; Saavedra, María del Carmen; Zúñiga, Elina; López, Nora*

Room "Sala Horcones"

## **SIGNAL TRANSDUCTION - ENZIMES**

Chairpersons: Graciela Lidia Boccaccio – Eleonora Campos

8:30

ST-01

### **2-arachydonoyl glycerol (2-AG) drives TRPV-dependent sensory signals that increase the intracellular cholesterol trafficking in *Caenorhabditis elegans*.**

Bruno Hernandez-Craverro, Sofia Gallino, Jeremy Florman, Cecilia Vranych, Philippe Diaz, Ana Belén Elgoyhen, Mark J. Alkema; Diego de Mendoza

8:45

ST-02

### **Xrn1 regulates cAMP-PKA specificity during thermotolerance.**

Ortolá Martínez, María Clara; Galello, Fiorella; Pautasso, Constanza; Portela, Paula; Rossi, Silvia.

9:00

ST-03

### **Quantitative proteomics reveals possible mechanisms of regulation of adipogenic differentiation in 3T3-L1 cells.**

Del Veliz, Samanta; Müller Sergio; Rivera, Lautaro; Uhart Marina; Bustos Diego Martin.

9:15

ST-04

### **Analysis of cytosolic calcium burst of *Saccharomyces cerevisiae* during the response to the sexual pheromone.**

Tarkowski, Nahuel; Ponce Dawson, Silvina; Aguilar, Pablo S.

9:30

EN-01

### **COMPARATIVE STRUCTURAL, BIOCHEMICAL AND KINETIC STUDIES BETWEEN THERMOSTABLE AND COLD-ADAPTED GLUCOAMYLASES**

Wayllace, Natael Maximiliano; Busi, María Victoria; Gomez-Casati, Diego Fabián

9:45

EN-02

### **Biochemical and structural characterization of two phosphoenolpyruvate carboxykinases from the green alga *Chlamydomonas reinhardtii***

Torresi, Florencia; Rodriguez, Fernanda; Gomez-Casati Diego; Martín, Mariana

10:00

EN-03

### **Cell-free glycobiology: enzymatic modification of $\alpha$ -glucans with glucosamine moieties**

Iglesias, María Josefina; Iglesias, Alberto; Asencion Diez, Matías D.