

SAMIGE 2026 Meeting Program

Tuesday 29

- Accreditation (9:00 - 10:30)

- Opening ceremony (10:30 – 11:00). Juan P. Busalmen and Diego Serra.

- Plenary lecture 1 (11:00 – 12:00): Chair: JP Busalmen.

Speaker:

José Antonio Escudero, National Center for Biotechnology, Madrid, España.

Integrins: the bacterial Great Wall

- Symposium 1 (12:00 – 13:30): **Molecular Microbiology and Physiology**. Chairs: Adela Luján

Speakers:

Paula Tribelli. Instituto de Química Biológica de la Facultad de Ciencias Exactas y Naturales (IQUIBICEN-CONICET). *Pseudomonas* and its colors: Iron-dependent metabolic rewiring drives melanin production associated with tryptophan in clinical *Pseudomonas aeruginosa* strains.

Virginia Helena Albarracin. Facultad de Agronomía y Zootecnia, Universidad Nacional de Tucumán.

High-resolution electron microscopy with omics approaches to study survival mechanisms in hostile environments.

Lisandro Javier Gonzalez. Instituto de Biología Molecular y Celular de Rosario (IBR-CONICET). The cellular context of resistance to last-resort antibiotics: proteostasis and molecular adaptation.

- Lunch (13.30 – 15:00)

- Oral Communications 1 (15:00 a 16:30). Chair: Andrés Garriz

MM-14. Alternative σ^E -dependent regulation of *scsABCD* is essential for managing envelope stress during intracellular survival of salmonella. **Juan José Reinero**.

MM-39. Bypassing NifL regulation enhances electrodiazotrophic growth and protein production of *Azotobacter vinelandii* in electrochemical cells. **Julieta Agustina Crisci.**

MM-35. Genome assembly refinement and metabolic engineering for enhanced polyhydroxybutyrate-valerate production in *Halomonas titanicae* KHS3. **Agustina Giordano.**

MM-12. Identification of novel targets of Fur family (Ferric Uptake Regulator) transcription factors in *Brucella* virulence-associated genes. **Tadeo Pascua.**

MM-23. Metal selectivity and DNA binding of NmtR and CsoR for the development of improved ROSALIND-based cell-free biosensors. **Luciana Mateo.**

MM-27. PICCIS (Plasmid Identification, Characterization, Clusterization, Interpretation, and Scoring): a comprehensive tool for the exploration and analysis of bacterial plasmids. **Macarena Algañarás.**

- **Microtalks, session 1.** MM-1, MM-9, MM-15, MM-24, MM-28 y MM-46.

- **Coffee break** (16:30 – 17:00)

- **Plenary lecture 2** (17:00 – 18:00): Chair: Diana Vullo

Speaker:

Stephanie D. Jurburg. Helmholtz Centre for Environmental Research-UFZ | Leipzig, Germany
MiCoDa a second life for the invisible majority.

- **Palabras a la Comunidad de Federico Sisti, Presidente Electo de la American Society for Microbiology** (18:00 – 18:15)

- **Symposium 2** (18:15 – 20:15): **Microbiology and Climate Change.** Chairs: Héctor Álvarez and Analía Sannazzaro

Speakers:

Laura Madueño. Centro de Investigación y Desarrollo en Fermentaciones Industriales – (CINDEFI, CCT-La Plata). Anaerobic Microbial Consortia for Hydrocarbon Biodegradation:

Toward Bioaugmentation Strategies in Sediments and Aquifers.

María Mar Areco. Instituto de Investigación en Ingeniería Ambiental (IIIA CONICET-UNSAM). Respuesta celular de microalgas a efluentes contaminados y su aprovechamiento biotecnológico.

Carolina Vergara Cid. Plant Biogeochemistry Group, Helmholtz Centre for Environmental Research (UFZ), Germany. Soil microbial communities facing a double stress: climate change meets metal contamination.

María Laura González Pereyra. INCIVET (CONICET-UNRC), Río Cuarto, Córdoba. Interacción probiótico-animal: Aditivos a base de cepas de *Bacillus* para disminuir el uso de antibióticos en producción porcina.

Welcome cocktail (20:30 – 22:00)

Wednesday 30

- Plenary lecture 3 (8:30 – 9:30): Chair: Eleonora García Vescovi

Speaker:

John H. Brumell, Molecular Genetics & Institute of Medical Science, Toronto University. *Listeria* promotes systemic infection by targeting the host deubiquitinase CYLD.

- Symposium 3 (09:30 – 11:30): Biotechnology and Bioprocesses and Microbiology of Interactions. Chairs: Mariana Lanfranconi and Guillermo Maroniche.

Speakers:

Ana Nussenbaum. IABIMO (INTA-CONICET), Hurlingham, Buenos Aires. Interactions between *Anastrepha fraterculus* (Diptera: Tephritidae) and its symbiotic microorganisms: biological implications and applications in the Sterile Insect Technique.

Nicolás Cecchini. CIQUIBIC (UNC-CONICET), Córdoba. Pathogen perception in plants: NLR receptors and endosymbiotic organelles as platforms for microbial surveillance.

Ricardo Ezequiel de Cristóbal. INSIBIO-UNT, CONICET. Universidad Nacional de Tucumán. Del Aislado al Mercado: El recorrido de una tecnología microbiológica desde la investigación pública hasta el campo.



Carolina Bagnato. Centro Atómico Bariloche, CONICET, Universidad Nacional de Río Negro. Algal biotechnology: from linear to circular economy transition.

- **Coffee break** (11:30 – 12:00)

- **Oral Communications 2** (12:00 a 13:30). Chair: Mara Roset

MI-7. *Serratia marcescens* exploits CASM-like membrane repair pathways to establish intracellular replicative vacuoles. **Brayan Stiven Arango Gil.**

MI-21. Extracellular vesicles as contact-independent vehicles for plasmid-borne β -lactamase dissemination from a sub-Antarctic environmental reservoir. **Adrián Gustavo Gonzales Machuca.**

BP-9. Development of Rapid Lateral Flow Immunoassays for the Differential Detection of Major Carbapenemases in Gram-Negative Multidrug-Resistant Bacteria. **Carolina Anahi Lucero.**

BB-3. Bioremediation potential of mercury resistance determinants from a clinical salmonella isolate. **Sebastian Peña Buitrago.**

BP-17. Development of aptamers for recognition of Dengue NS1 protein. **Camila Bodden.**

MM-47. Differential regrowth of antibiotic-surviving *Escherichia coli* biofilm subpopulations drives a striking aggregative-to-mucoid transition that enables biofilm escape. **Franco Luciano Valentinis Rossi.**

- **Microtalks, session 2.** MI-2, MI-10, MI-18, MS-27, MS-42 y BB-7.

- **Lunch** (13.30 – 15:00)

- **Plenary lecture 4** (15:00 – 16:00): Chair: Diego Serra.

Speaker:

Joaquín Bernal Bayard. University of Seville. España.

Ubiquitylome profiling reveals host targets of Salmonella NEL E3 ligases.

- **Symposium 4** (16:00 – 17:30) **Simposio de Unión Regional (SUR).** Chair: Diego Serra.

Speakers:

Sharon Viscardi. Universidad Católica de Temuco. SOMICH Representative. From soil microbiology to sustainable nutrition: native lactic acid bacteria enhance carotenoids and folates in drought-stressed Tomato Angolino.

Caterina Rufo D'Addario. Instituto Polo Tecnológico de Pando, Facultad de Química, Universidad de la República. SUM Representative. Microbiological Validation of Antimicrobial Interventions: Challenges and Impact on Food Safety.

María Luján Capra. Instituto de Lactología Industrial (INLAIN), Universidad Nacional del Litoral (UNL) – CONICET. SAMIGE Representative. Microbial Biodiversity in Sourdough: From Ancestral Valorization to Biotechnological Development.

- **Coffee - Posters and meeting** (17:30 – 20:00)

- **Beer&Science** (21:00 – 22:30) – Project idea pitching session + After

Thursday 01

- **Plenary lecture 5** (8:30 – 9:30): Chair: Alfonso Soler-Bistué

Speaker:

Stephen Bell. Ohio University, Ohio, USA. Chromosome Archae-tecture: genome dynamics in the third domain of life.

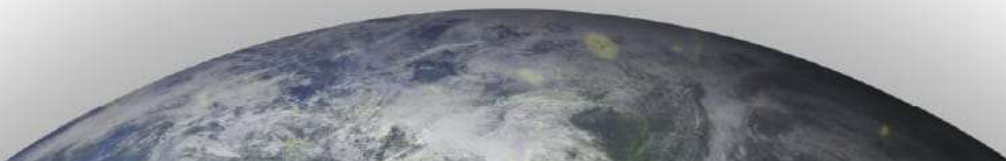
- **Symposium 5** (09:30 – 11:00): **Education and extension in Microbiology.** Chais: Maria Alejandra Daniel y Magalí Bialer

Speakers:

Luciana Díaz. Scientific and Technical Dissemination Program of the Leloir Institute Foundation. Fundación Instituto Leloir (FIL), Buenos Aires. The Evolution of a Pioneering Science Communication Program.

Ana María Espinoza. Cefiec, Facultad de Ciencias Exactas y Naturales. UBA. Teaching the Concept of microorganisms: A Didactic Proposal.

Lina Ethel Merino. Universidad Nacional de Hurlingham (UNAHUR) - Comisión de



Investigaciones Científicas de la Provincias de Buenos Aires (CICPBA). Más allá de la divulgación: producir microbiología con la comunidad.

- **Presentación Institucional del Grupo de Innovación Atlántis - UNMDP. (11:00 - 11:30)**

- **Coffee break (11:30 - 12:00)**

- **Touristic activity and lunch (12:00 - 15:00)**

- **Invited Lectures (15:00 - 16:00)**

Speakers:

Shimon Bershtein, Ben-Gurion University, Israel. Molecular mechanisms of metabolic adaptations in microbial populations.

Antonis Chatzinotas, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany.

Unpacking Microbial Predation: From Experimental Hypotheses to In Situ Identification

- **Oral Communications 3 (16:00 a 17:30).** Chair: Arlinet Kierbel

MM-42. Rhopalodiacean diatoms as a model for the evolution of organelles and eukaryotic nitrogen fixation. **Adrián Oscar Sanchez.**

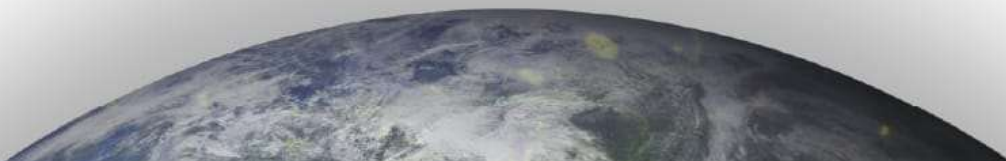
MM-20. Beyond channel recovery: CFTR modulators reduce virulence phenotypes and drive evolutionary resistance trade-offs in *Staphylococcus aureus*. **Pablo Di Lelsi.**

MS-32. Biofilm formation by synthetic consortia of native plant growth-promoting bacteria from the Salado River Basin: role of genetic diversity vs. strain identity. **Rafael Parra.**

MS-23. From saprophyte to symbiont: horizontal acquisition of a mesorhizobium-derived symbiotic island by *Aminobacter*. **Santiago Enrique Stalder**

MS-45. Metagenomics for the first characterization of microbial communities associated with cold seeps and chemosynthetic fauna in the Argentine deep sea. **Yaco Taniel Maccario Bragagnolo.**

MS-9. Bioactive fractions produced by grapevine-associated *Bacillus subtilis* sensu lato strains: from genomic prediction to functional characterization. **Denise Lajoinie.**



MS-38. Bacterial LPMOS and plant-associated microorganisms: new players in biocontrol and symbiosis? **Juliet Fernanda Nilsson.**

- Coffee- posters and meeting (17:30 – 20:00)

- SAMIGE Party (21:00 – 24:00)

Friday 02

- SAMIGE general assembly (10:00 – 12:00)

- Closing ceremony (12:00 – 12:30)

Mantenete conectado a través de nuestra página web o de nuestras redes sociales, para estar al día sobre las últimas novedades y cualquier inquietud no duden en contactarnos a través de info@samige.org.ar.

La Comisión Directiva.

