

Annual meeting of the Argentinean Physiological Society

Wednesday 20, 2021

8:00 - 10:45 am: Interactive Educational Workshop: Hybrid Teaching.

Chair: Noelia Valle. Institute of Innovation, Francisco de Vitoria University, Madrid, Spain.

Co-Chairs: Matilde Said. Cardiovascular Research Center, La Plata, Argentina and Sebastián Caffera, Medical University, Buenos Aires, Argentina.

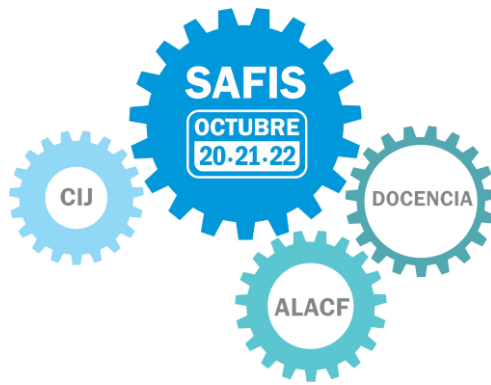
11:00 am - 12:30 pm: ALACF Symposium 1. ACE2 beyond Covid-19. What's new about the cardioprotective arm of RAAS?

Chair: Mariela Gironacci. Institute of Biological Chemistry and Physic chemistry "Prof. Alejandro C. Paladini", Buenos Aires, Argentina.

Co- Chair: María Celeste Villa- Abrille. Cardiovascular Research Center, La Plata, Argentina

Speakers:

1. Mario Chiong. Advanced Center for Chronic Diseases, Santiago, Chile. *“Beneficial effects of Angiotensin-(1-9) on vascular remodeling”*.
2. María José Campagnole-Santos. Department of Biochemistry and Immunology, Biological Sciences Institute, Belo Horizonte, Brazil. *“Therapeutic actions of angiotensin-(1-7) in respiratory pathologies”*.



3. Mariela Gironacci. Mariela Gironacci. Instituto de química y fisicoquímica biológicas "Prof. Alejandro C. Paladini", Buenos Aires, Argentina. *"Anti-inflammatory response mediated by angiotensin-(1-7) Mas receptor activation"*.
4. Rafaela Fernandes da Silva. Department of Physiology and Biophysics, Belo Horizonte, Brazil. *"Protective effects of alamandine on cardiac remodeling"*.

12:45 - 13:15 pm: Opening of the Congress: words of SAFIS president Dr. Martín Vila Petroff and ALACF president Dr. Luis Sobrevia.

13:30 - 15:00 pm: Poster Presentation of Education in Physiology

15:30 - 17:00 pm. Workshop organized by Young Investigators Committee. Professional development and Laboral continuity.

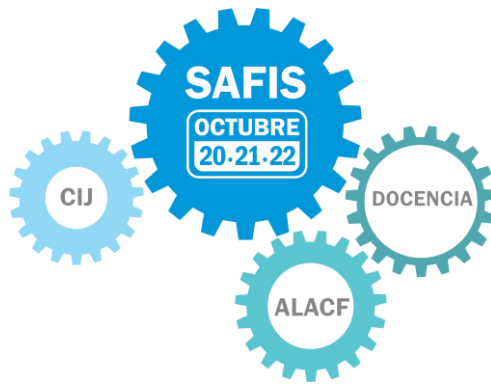
Chair: Juan Ignacio E. Mariángelo. Cardiovascular Research Center, La Plata, Argentina

Co- Chair: Cecilia Larocca, Institute of Experimental Physiology, Rosario, Argentina.

Speakers:

1. Pedro Martín. Institute of Immunological and Physiopathological Studies, La Plata, Argentina.
2. Alicia Mattiazzi. Cardiovascular Research Center, La Plata, Argentina
3. Veronica Livore. Institute of Experimental Physiology, Rosario, Argentina.

17:15 - 18:45 pm: Symposium 2. Metabolism, trafficking and cellular signaling: focusing on cellular physiology.



Chair: Mariano Bisbal. Mercedes and Martin Ferreyra Medical Research Institute, Córdoba, Argentina.

Co- Chair: Daniel Francés. Institute of Experimental Physiology, Rosario, Argentina.

Speakers:

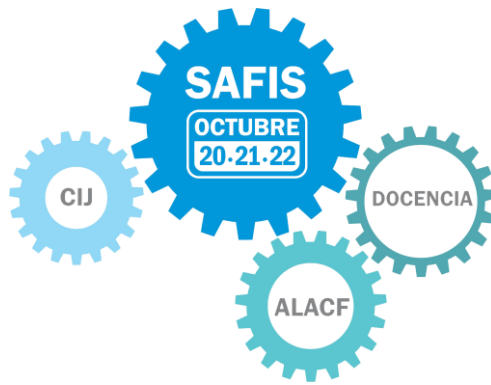
1. Laura Gummy. University of Otago, New Zealand. *"Local mechanisms that regulate long-distance trafficking in axons"*
2. Eduardo Arzt. Biomedicine Research Institute of Buenos Aires, Buenos Aires, Argentina. *"Molecular mechanisms underlying pituitary pathology"*
3. Graciela Diaz Torga. Institute of Biology and Experimental Medicine, Buenos Aires, Argentina. *"Advances in the knowledge of the effects of progesterone on prolactin secretion and the development of prolactinomas"*
4. Marcelo Roma. Instituto de Fisiología Experimental, Rosario, Argentina. *"Molecular pathways involved in the pathophysiological genesis of the non-alcoholic fat liver"*.

19:00 - 19:50 pm: Opening Conference SAFIS

Chair: Martin Vila Petroff. Cardiovascular Research Center, La Plata, Argentina

Co- Chair: Eduardo Luis de Vito. Alfredo Lanari Medical Research Institute, Buenos Aires, Argentina.

Speaker: Jack Feldman. Department of Neurobiology, UCLA, California. *"Breathing Matters: preBotzinger Complex and beyond"*



October 21, 2021

**8:00-9:30 am. Symposium organized by the Young Investigators Committee.
Experimental Models for studying physiology**

Chair: Manuela Santalla. Cardiovascular Research Center, La Plata, Argentina.

Co- Chair: Rocío Cantero, Instituto Multidisciplinario de Salud, Tecnología y Desarrollo, Santiago del Estero, Argentina.

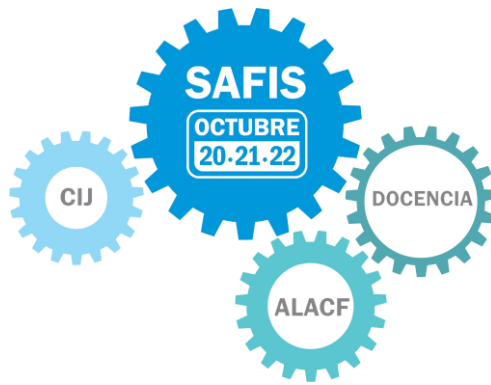
Speakers:

1. Juan Ignacio Felice. Department of Anatomy and Histology, School of Exact Sciences, La Plata, Argentina. *"Approach to experimental problems through the use of mathematical models"*.
2. José Lombardo. Biochemical Research Institute of La Plata, La Plata, Argentina. *"A, B, C. elegans."*
3. María Victoria Gavazzi. Cátedra de Histología y Embriología Animal. Facultad de Ciencias Naturales y Museo, La Plata, Argentina. *"Analysis of Hydra as biological model in physiology"*.
4. Juan Ignacio Romero. Laboratorio de Genética del Comportamiento Fundación Instituto Leloir, Buenos Aires, Argentina. *"Drosophila melanogaster as a model of lipid metabolism: Identification of a new human ortholog in the regulation of metabolism"*.

9:45 - 11:15 am. Symposium 4. Two key moments to understand women pathophysiology: pregnancy and menopause.

Chair: Claudia Capurro. Bernardo Houssay Institute of Physiology and Biophysics, Buenos Aires, Argentina.

Chair Verónica De Giusti. Cardiovascular Research Center, La Plata, Argentina.



Speakers:

Speakers:

1. Luis Sobrevia. Universidad Pontificia Católica de Chile, Santiago, Chile. *“Role of the insulin/adenosine axis in the placental/fetus communication in gestational diabetes”*.
2. Sarah H. Lindsey. Department of pharmacology, Tulane University School of Medicine, New Orleans, EEUU. *“The role of sex, menopause and GPER in vascular remodeling”*.
3. María José Bellini. Instituto de Investigaciones Bioquímicas de La Plata “Prof. Doctor Rodolfo R. Brenner”, La Plata, Argentina. *“Role of IGF-1 in the central modulation of the female gonadal axis”*.
4. Alicia Jawerbaum. Centro de Estudios Farmacológicos y Botánicos, Buenos Aires, Argentina. *“Oxidative and inflammatory stress in gestational diabetes”*.

11:30 am -12:30 pm: Debate in Science. The equilibrium between the science for the paper and the science for the press.

Chair: Aiello Alejandro. Cardiovascular Research Center, La Plata, Argentina.

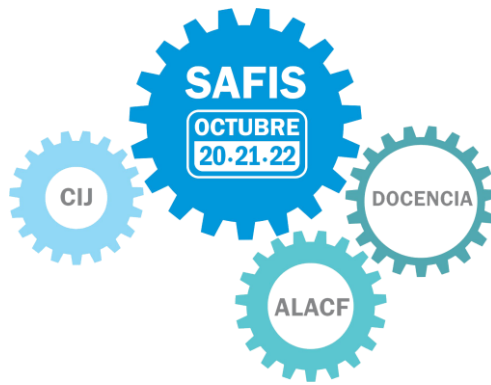
Co-Chair: Carlos Davio. Institute of Pharmacological Research, Buenos Aires, Argentina.

Speaker:

Diego Golombek. Chronobiology Laboratory, University of Quilmes, Argentina.

12:45 - 14:45 pm. Scientific Poster Presentation

15:00 - 16:30 pm. Symposium 5. Calcium signaling: impact in the physiopathology of tissues and cells.



Chair: Darío Krapf. Cell Signaling Cascades Laboratory, Rosario, Argentina.

Co- Chair: Luis Gonano. Cardiovascular Research Center, La Plata, Argentina.

Speakers:

1. William E. Louch. Institute for experimental medical research, University of Oslo, Noruega. *“Control of calcium release in healthy and sick hearts”*.
2. Juan D. Goutman. Instituto de Investigaciones en Ingeniería Genética y Biología Molecular “Dr. Héctor N. Torres”, Buenos Aires, Argentina. *“Compartmentalization of calcium signaling in ciliary cells”*.
3. Silvia Belmonte. Instituto de Histología y Embriología de Mendoza Dr. Mario H. Burgos, Mendoza, Argentina. *“Role of ceramides in the intracellular calcium increases in human spermatozooids”*.
4. Silvina Ponce Dawson. Institute of Physics of Buenos Aires, Argentina. *“Quantification and physiological impact of intracellular calcium flux”*.

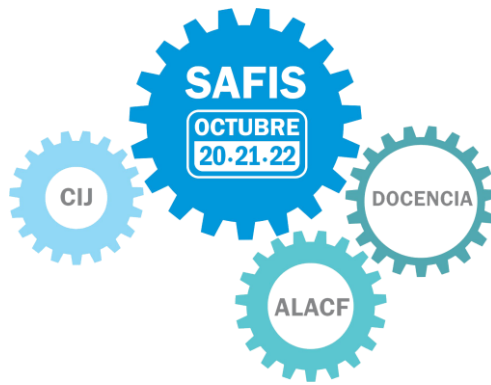
16:45 - 18:15 pm. Symposium 6. SAFIS Young Investigator Award

Chair: Aldo Mottino. Institute of Experimental Physiology, Rosario, Argentina.

Co-Chair: Gisela Di Giusto. Bernardo Houssay Institute of Physiology and Biophysics, Buenos Aires, Argentina.

This symposium consists of the presentation in oral format of four selected abstracts on physiological topics excluding cardiovascular physiology. The jury will choose the best work to award the 2021 SAFIS Award.

18:30 - 19:20 pm. Mini ALACF Conferences. News in high altitude physiology

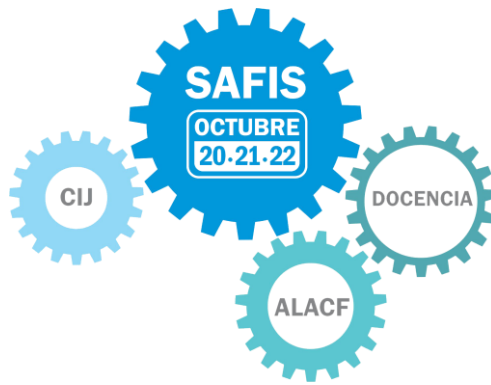


Chair: Henry H. León Ariza. Faculty of Medicine, PROSEIM Research Group, University of La Sabana, Chía, Colombia.

Co-Chair: Gustavo Pérez. Cardiovascular Research Center, La Plata, Argentina.

Speakers:

1. Christian Arias-Reyes. Faculty of Medicine, Université Laval, Institute Universitaire de Cardiologie et de Pneumologie de Québec (IUCPQ), Québec, Quebec City, Canada. *“Decreased incidence, virus transmission capacity, and severity of COVID-19 at altitude on the American continent”.*
2. Laura Gochicoa-Rangel. Departamento de Fisiología Respiratoria, Instituto Nacional de Enfermedades Respiratorias "Ismael Cosío Villegas," Mexico City, Mexico. *“Respiratory capacity at altitude and its relationship with sex, body surface and age”.*



October 22, 2021

8:00-9:30 am. Symposium 7. Digestive system: an organism inside our organism.

Chair: Roxana Rubinstein. Institute of Biomedical Research, Buenos Aires, Argentina.

Co-Chair: Liliana Monasterolo. Faculty of Biochemical and Pharmaceutical Sciences, Rosario, Argentina.

Speakers:

Guillermo Docena. Instituto de Estudios Inmunológicos y Fisiopatológicos, La Plata, Argentina. *“The immunity of the intestinal mucosa as the starting point of its physiology”*.

2. Marcelo Choi. Instituto Alberto C. Taquini de Investigaciones en Medicina Traslacional, Buenos Aires, Argentina. *“Intestinal Microbiota and renal function: a new dialog axis”*.

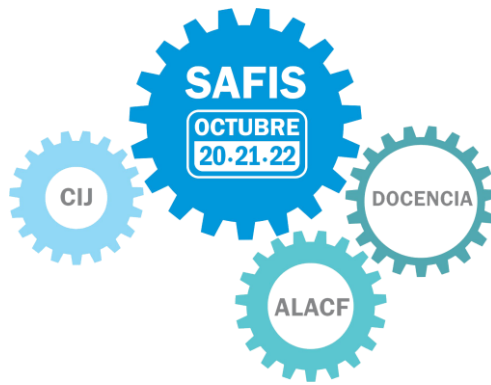
3. Darío Ramírez. Instituto Multidisciplinario de Investigaciones Biológicas, San Luis, Argentina. *“Diet and its impact in cancer: the key role of Nrf2”*.

4. Gabriela Perdigón. Centro de Referencia para Lactobacilos, San Miguel de Tucumán, Argentina. *“The consumption of probiotics and its benefits for the intestinal immune system”*.

9:45 - 11:15 am. Symposium 8. Camilión de Hurtado Award

Chair: Lascano Elena. Institute of Translational Medicine, Transplantation and Bioengineering, Buenos Aires, Argentina

Co-Chair: Emiliano Diez. Institute of Medicine and Experimental Biology of Cuyo, Mendoza, Argentina.



This symposium consists of the presentation in oral format of four selected abstracts on topics of Cardiovascular Physiology. The jury will choose the best work to award the Camilión de Hurtado Prize 2021.

11:30 am - 13:30 pm. Scientific Poster Presentation

13:45 - 14:30 pm. Conference SAFIS

Chair: Alicia Mattiazzi. Cardiovascular Research Center, La Plata, Argentina.

Co-Chair: Mark Anderson Johns Hopkins University, USA

Speaker: Qinchuan Wang. Johns Hopkins University, USA. *“Evolutionary Physiology: oxidation of CaMKII a treaty between God and the devil”*.

14:45 - 16:15 pm. Symposium 9 SAFIS-ALACF: Physiopathology and Covid-19 in Latino America.

Chair: Martín Abba. Center for Immunological and Applied Research, La Plata, Argentina.

Co-Chair: Alejandro Orłowski. Cardiovascular Research Center, La Plata, Argentina.

Speakers:

1. Patricia Rieken Macêdo Rocco. Laboratory of Pulmonary Investigation, Carlos Chagas, Rio de Janeiro, Brazil. *“Pathogenesis of Multiple Organ Injury in COVID-19 and Potential Therapeutic Strategies”*.
2. Marcela Mercado-Reyes. Unidad de Secuenciación y Genómica, Bogotá, Colombia. *“Substitutions in Spike and Nucleocapsid proteins of SARS-CoV-2 circulating in South America. Sequencing, clinical outcome and vaccine efficacy”*.
3. Francisco Barrantes. Instituto de Investigaciones Biomédicas, Buenos Aires, Argentina. *“Neuropathologic manifestations of Covid-19”*.



4. Walter Manucha. Instituto de Medicina y Biología Experimental de Cuyo, Mendoza, Argentina. *"Vitamin D and COVID-19: mechanism and efficacy"*.

16:30 - 17:15 pm. Closing Conference SAFIS

Chair: Maria Fernanda Troncoso. Institute of Biological Chemistry and Physic chemistry, Buenos Aires, Argentina.

Co-Chair: Graciela Cremaschi. Institute of Biomedical Research, Buenos Aires, Argentina.

Speaker:

Gabriel Rabinovich. Instituto de Biología y Medicina Experimental, Buenos Aires, Argentina. *"Glycans and galectins: new therapeutic targets in cancer, autoimmunity and infections"*.

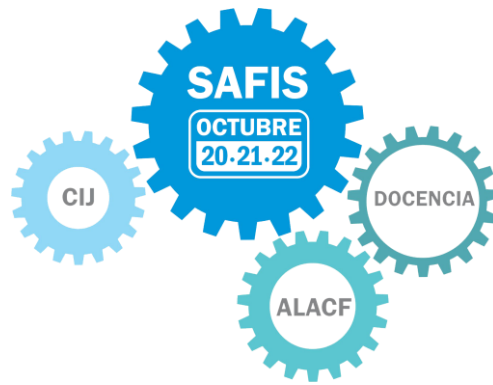
17:30 - 19:00 pm. Symposium 10 ALACF. Obesity: a systemic disease

Chair: Pedro Leme. Federal University of Rio de Janeiro, Brazil.

Co-chair: Carolina Caniffi. Chemical Institute and Drug Metabolism, Buenos Aires, Argentina.

Speakers:

1. Pedro Leme. Federal University of Rio de Janeiro, Rio de Janeiro, Brazil. *"Lung function impairment during obesity"*.
2. Ana Paula Davel. UNICAMP, Brazil. *"Modulation of Vascular Function by Perivascular Adipose Tissue"*.
3. Paola Casanello. Pontificia Universidad Católica de Chile, Santiago, Chile. *"Early origins of obesity"*.



4. Egberto Gaspar de Moura. State University of Rio de Janeiro, Rio de Janeiro, Brazil. *“Understanding the mechanisms of obesity related metabolic syndrome”*.

19:15 - 20:00 pm. Closing ceremony

Saturday 9:00 am: SAFIS Assembly