



20 al 23 de Noviembre . MAR DEL PLATA

SAIC · SAFIS · SAFE

LVIII Reunión Científica Anual de la Sociedad Argentina de Investigación Clínica (SAIC)
Reunión Anual de la Sociedad Argentina de Fisiología (SAFIS)
XLV Reunión Anual de la Sociedad Argentina de Farmacología Experimental (SAFE)

Participating Societies: Argentine Society for Clinical Investigation (SAIC), Argentine Society of Physiology (SAFIS), and Argentine Society of Experimental Pharmacology (SAFE).

November 20-23, 2013, Mar del Plata, Argentina.

PROGRAM

1- CONFERENCES (*Speakers listed by alphabetical order*).

1- Dr. NICOLAS ANDRÉ. Hématologie & Oncologie Pédiatrique, Hôpital pour enfants de "la Timone", AP-HM, Marseille, FRANCE.

"Metronomics: Combining scientific, medical and social innovation".

Chaired: Dr. Graciela Scharovsky

2- Dr. WALDO BELLOSO. Sección Farmacología Clínica y Departamento de Farmacología y Toxicología del Instituto Universitario Escuela de Medicina, Hospital Italiano de Buenos Aires, ARGENTINA.

"The pharmacogenomic basis of therapeutics".

Chaired: Dr. Nora Brandán

3- Dr. JEFFREY FRIEDMAN. Laboratory of Molecular Genetics, Rockefeller University, USA.

"Leptin and the Biologic Basis of Obesity".

Chaired: Dr. Carlos Pirola

4- Dr. TYRONE HAYES. Department of Integrative Biology, Molecular Toxicology, Group in Endocrinology, Museum of Vertebrate Zoology, Energy and Resources Group, University of California at Berkeley, USA.

"Clinical concerns with Atrazine exposure are supported by laboratory findings".

Chaired: Dr. Enrique Luque

5- Dr. SUSAN HORWITZ. Department of Molecular Pharmacology, Albert Einstein College of Medicine, New York, USA.

"Taxol®, tubulin and tumors".

Chaired: Dr. Juana María Pasquini

6- Dr. MOHAMED KARMALI. Department of Pathology and Molecular Medicine, McMaster University. Laboratory for Food-borne Zoonoses, Public Health Agency of Canada, Ontario, CANADA.

"Hemolytic uremic syndrome: The continuing evolution of a bacteria".

Chaired: Dr. Cristina Ibarra

7- Dr. CLAUDIA LANARI. Instituto de Biología y Medicina Experimental (IBYME-CONICET), ARGENTINA

"From serendipity to a clinically applied project in breast cancer".

Chaired: Dr. Edith Kordon

8- Dr. ALDO MOTTINO. Instituto de Fisiología Experimental (IFISE-CONICET), Facultad de Ciencias Bioquímica y Farmacéuticas, Universidad Nacional de Rosario, ARGENTINA.

"Multidrug Resistance Associated Protein 2 as a barrier to xenobiotic intestinal absorption: Hormonal modulation".

Chaired: Dr. Viviana Catania

9- Dr. FRANCISCO QUINTANA. Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School, Boston, USA.

"Molecular mechanisms involved in the regulation of neuroinflammation".

Chaired: Dr. Gabriel Rabinovich

10- Dr. JAVIER ARIAS VALLEJO. G.I.R. BIOFORGE, Ciber BBN Centro de I+D. Universidad de Valladolid, SPAIN.

"Therapeutic nano-devices from multifunctional recombinant biopolimers".

Chaired: Dr. Santiago Palma

Co-chaired: Dr. José Bermúdez

11- Dr. JOSEPH VERBALIS. Georgetown University Medical Center, Washington, USA.

"Neuroendocrine involvement in disorders of fluid and electrolyte balance".

Chaired: Dr. Laura Vivas

12- Dr. JOHN A. WILLIAMS. Department of Molecular and Integrative Physiology, University of Michigan, USA.

"Signaling pathways regulating exocrine pancreatic function and disease"

Chaired: Dr. Liliana G. Bianciotti

CONFERENCES IN THE CONTEXT OF THE NETWORK OF BIOSCIENCES

13- Dr. ADRIANA GRUPPI. President of the Sociedad Argentina de Inmunología (SAI), ARGENTINA.

"Lymphocytes B, the only antibody producing cells, regulate immune response by pro-inflammatory and anti-inflammatory cytokines".

Chaired: Dr. Martín Isturiz

14- Dr. LUIS MAYORGA. President of the Sociedad Argentina de Investigación en Bioquímica y Biología Molecular (SAIB), ARGENTINA.

"Fusion of cellular membranes".

Chaired: Dr. Elisa Bal de Kier Joffé

15- Dr. ALEJANDRO SCHINDER. President of the Sociedad Argentina de Investigación en Neurociencias (SAN), ARGENTINA.

"From stem cells to neurons: Dynamic mechanisms involved in the plasticity of the adult brain".

Chaired: Dr. Eduardo Arzt

2- SYMPOSIA

Short talks (10 min) presented by the first authors of selected abstracts will be included in the Symposia. These abstracts will be selected according to both the topic and the quality for scientific research work.

1- FUTURE CHALLENGES IN BASIS AND CLINICAL RESEARCH IN VIROLOGY: IS IT POSSIBLE TO ERADICATE HIV and DENGUE VIRUSES?

Chaired: Dr. Horacio Salomón

Speakers:

- **Dr. PEDRO CAHN.** Fundación Huésped, ARGENTINA.

"HIV: Towards the epidemic control".

- **Dr. ANDREA GAMARNIK.** Fundación Instituto Leloir, ARGENTINA.

"Basic aspects in the molecular biology of dengue virus: Advances and challenges"

- **Dr. DELIA ENRIA.** Instituto Nacional de Enfermedades Virales Humanas "Dr. Julio I. Maiztegui". Pergamino, ARGENTINA.

"Is Dengue infection no longer a zoonosis?"

- **Dr. JORGE GEFFNER.** Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"The immune response in the control of HIV infection: Therapeutic perspectives".

2- NEW ASPECTS IN THE REGULATION OF THE CARDIOVASCULAR AND RENAL FUNCTION.

Chaired: Dr. Marcelo S. Vatta

Speakers:

- **Dr. JAVIER STERN.** Department of Physiology, Medical College of Georgia, Georgia Regents University, USA.

"Novel insights into the regulation of cardiovascular and renal function".

- **Dr. VAGNER ANTUNES.** Instituto de Ciências Biomédicas (ICB-I) da Universidade de São Paulo, BRAZIL.

"Hypothalamic-brainstem circuitry as the coordinator of autonomic functions at different adaptive and pathophysiological states".

- **Dr. FERNANDO IBARRA.** Instituto de Investigaciones Médicas Alfredo Lanari (IDIM-CONICET). Departamento de Fisiología y Biofísica, Unidad Académica 1, Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"Ovariectomy: Effects on renal function, sodium excretion and blood pressure regulation".

3- ENDOBIOTIC AND XENOBIOTIC TRANSPORTERS: EVOLUTION, PHYSIOLOGY, PATHOPHYSIOLOGY AND CLINICAL APPLICATION.

Chaired: Dr. Aldo Mottino

Speakers:

- **Dr. JOSE MANAUTOU.** Center for Biochemical Toxicology, Department of Pharmaceutical Sciences, University of Connecticut, USA.

"Studies on Multidrug Resistance Protein 4 (MRP4, ABCC4) as potential factor conferring resistance to hepatotoxicity caused by Acetaminophen".

- **Dr. FRANS RUSSEL.** Radboud University Nijmegen Medical Centre and the Faculty of Science, NETHERLANDS.

"MRP4/ABCC4: A multifaceted conductor of drug transport and signal transduction".

- **Dr. VERÓNICA MATHET.** Instituto de Investigaciones en Microbiología y Parasitología Médica (IMPAM-CONICET), Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"Strategies to improve viral hepatitis therapeutics: Role of ABC proteins in multiple drug resistance"

4- THE METABOLIC SYNDROME: THE GREAT MEDICAL PROBLEM OF THE CENTURY.

Chaired: Dr. Silvia Sookoian

Speakers:

- **Dr. CARLOS PIROLA.** Departamento de Biología Molecular y Genética de Enfermedades Complejas, Instituto de Investigaciones Médicas Alfredo Lanari (IDIM-CONICET), Universidad de Buenos Aires, ARGENTINA.

"Factors in the fetal programming as the origin of diseases in adulthood".

- **Dr. BRUCE BLUMBERG.** Departments of Developmental and Cell Biology and Pharmaceutical Sciences, University of California, Irvine, California, USA.

"Obesogens, stem cells and the transgenerational programming of obesity".

- **Dr. DARIO RAMÍREZ.** Instituto Multidisciplinario de Investigaciones Biológicas de San Luis (IMIBIO-SL-CONICET), Universidad Nacional de San Luis, ARGENTINA.

"Role of myeloperoxidase in the metabolic abnormalities associated to obesity".

5- ADVANCES IN ENDOCRINOLOGY

Chaired: Dr. Marta Tesone

Speakers:

- **Dr. GRACIELA CREMASCHI.** Instituto de Investigaciones Biomédicas (BIOMED-CONICET), Universidad Católica, Buenos Aires, ARGENTINA.

"Genomic and non-genomic mechanisms involved in the regulation of lymphocyte function by thyroid hormones".

- **Dr. RODOLFO REY.** Instituto de Investigaciones Endocrinológicas Dr. César Bergadá (CEDIE-CONICET) División de Endocrinología, Hospital de Niños Ricardo Gutiérrez-FEI-CONICET, ARGENTINA.

"AMH: The fetal testicular hormone that better reflects ovary follicular reserve".

- **Dr. GRACIELA DIAZ.** Instituto de Biología y Medicina Experimental (IBYME-CONICET), ARGENTINA.

"The complex TGFbeta 1 system in normal and tumoral hypophyses".

6- HEMATOLOGICAL DISORDERS: DIAGNOSTIC AND FUTURE THERAPEUTIC PERSPECTIVES.

Chaired: Dr. Irma Slavutsky

Speakers:

- **Dr. LUCIO CASTILLA.** Program in Molecular Medicine, University of Massachusetts Medical School, USA.

"Targeted therapies for inv16 acute myeloid leukemia".

- **Dr. CARLOS DE BRASI.** Instituto de Medicina Experimental (IMEX-CONICET), Academia Nacional de Medicina, ARGENTINA.

"Lessons from human hemophilia: Big inversions and rearrangements caused by homologous recombination in the X chromosome".

- **Dr. PAULA HELLER.** Instituto de Investigaciones Médicas Alfredo Lanari (IDIM-CONICET), Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"New perspectives on platelet production from studies on thrombocytopenia"

7- STEM CELLS AND REGENERATIVE MEDICINE.

Chaired: Dr. Rodolfo Goya

Speakers:

- **Dr. ALBERTO CROTTOGINI.** Universidad Favaloro, ARGENTINA.

"Genetically modified mesenchymal cells in an ovine model of heart attack".

- **Dr. GUILLERMO MAZZOLINI.** Laboratorio de Terapia Génica, Facultad de Ciencias Biomédicas, Universidad Austral, ARGENTINA.

"Use of mesenchymal cells as therapeutic tools in cirrhosis and hepatocarcinoma".

- **Dr. RICARDO DEWEY.** Instituto de Investigaciones Biotecnológicas Instituto Tecnológico de Chascomús (IIB-INTECH-CONICET), Universidad Nacional de San Martín, ARGENTINA.

"The microenvironment of hematopoietic stem cells".

8- INTELLIGENT MATRICES IN SKIN WOUND REPAIR.

Chaired: Dr. Mariana Barbich

Speakers:

- **Dr. GUSTAVO ABRAHAM.** Instituto de Investigaciones en Ciencia y Tecnología de Materiales (INTEMA-CONICET), Universidad Nacional de Mar del Plata, ARGENTINA.

"Available biomaterials and technologies in matrix production for skin regeneration"

- **Dr. HUGO DRAGO.** Hospital Municipal del Quemado, Buenos Aires, ARGENTINA.

"Clinical application of matrices in wound repair"

- **Dr. GUSTAVO LEIROS.** Instituto de Ciencia y Tecnología Dr. César Milstein-CONICET, Fundación Pablo Cassará, ARGENTINA.

"Generation of complex tissue substitutes for deep wound therapeutics".

9- IONIC TRANSPORT IN CARDIOVASCULAR PATHOPHYSIOLOGY.

Chaired: Dr. Alejandro Aiello

Speakers:

- **Dr. JOSEPH CASEY.** Department of Biochemistry, School of Translational Medicine, Faculty of Medicine & Dentistry. University of Alberta, Edmonton, CANADA.

"Carbonic anhydrases and bicarbonate transporters in heart failure".

- **Dr. BERNARDO ÁLVAREZ.** Facultad de Ciencias Médicas, Universidad Nacional de La Plata, ARGENTINA.

"Carbonic anhydrase inhibitors and pro-hypertrophic signals mediated by heart muscle stretch".

- **Dr. VERÓNICA MILESI.** Grupo de Investigación en Fisiología Vascular (GINFIV), Universidad Nacional de La Plata, ARGENTINA.

"Arachidonic acid and its metabolites on cardiovascular health: Effects on K⁺ channels in vascular smooth muscle".

10- NEUROPHARMACOLOGY.

Chaired: Dr. Silvia Wikinski

Speakers:

- **Dr. JUAN FERRARIO.** Instituto de Investigaciones Farmacológicas (ININFA-CONICET), Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, ARGENTINA.

"New signaling pathways in levodopa-induced dyskinesias".

- **Dr. JUAN E. BELFORTE.** Laboratorio de Fisiología de la Conducta Animal, Grupo de Neurociencia de Sistemas, Departamento de Fisiología, Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"Pathophysiology of schizophrenia: Where dopaminergic and glutamatergic theories meet".

- **Dr. FACUNDO MANES.** Instituto de Neurociencias, Universidad Favaloro, ARGENTINA.

"New therapeutic targets in Alzheimer disease and fronto-temporal dementia".

11- PHARMACOLOGICAL STUDIES ON PEDIATRIC ONCOLOGY.

Chaired: Dr. Alejandro Serra

Speakers:

- **Dr. GUILLERMO CHANTADA.** Hospital de Pediatría "Profesor Dr. Juan P. Garrahan", ARGENTINA.

"Pediatric clinical pharmacological studies applied to retinoblastoma".

- **Dr. MARIANO GABRI.** Laboratorio de Oncología Molecular, Universidad Nacional de Quilmes, ARGENTINA.

"Potential tumoral markers in the treatment and diagnosis of pediatric cancer".

- **Dr. PAULA SCHAIQUEVICH.** Unidad de Farmacocinética Clínica, Hospital de Pediatría "Profesor Dr. Juan P. Garrahan", ARGENTINA.

"Translational studies on retinoblastoma: The Argentine experience".

12- REPRODUCTIVE PATHOLOGY: FROM THE LABORATORY TO THE CLINICS.

Chaired: Dr. Ana Franchi

Co-chaired: Dr. Gabriela Meresman

Speakers:

- **Dr. MAURICIO S. ABRAO.** Departamento de Obstetrícia e Ginecologia da Faculdade de Medicina da Universidade de São Paulo, BRAZIL.

"Endometriosis: the impact of the research on clinical practice".

- **Dr. MARGARITA VEGA.** Departamento de Obstetricia y Ginecología, Facultad de Medicina, Hospital Clínico, Universidad de Chile, CHILE.

"Molecular changes in the endometrium of women with polycystic ovary syndrome and their significance in reproduction".

- **Dr. ALICIA JAWERBAUM.** Centro de Estudios Farmacológicos y Botánicos (CEFYO-CONICET), Facultad de Medicina, Universidad de Buenos Aires, ARGENTINA.

"Activity of nuclear receptors on diabetes-complicated pregnancy".

- **Dr. GUSTAVO LEGUIZAMÓN.** Centro de Educación Médica e Investigaciones Clínicas (CEMIC), ARGENTINA.

"Diabetes & Pregnancy"

13- BIASED AGONISM IN G PROTEIN-COUPLED RECEPTORS: FROM STRUCTURAL BIOLOGY TO CLINICALLY RELEVANT ASPECTS.

Chaired: Dr. Federico Monczor

Speakers:

- **Dr. ANDRÉ SAMPAIO PUPO.** Instituto de Biociências, Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP, Botucatu), BRAZIL.

"Biased agonism for phenethylamine and imidazoline ligands in alpha-1 adrenoceptor subtypes".

- **Dr. XAVIER DEUPI.** Condensed Matter Theory Group and Laboratory of Biomolecular Research, Paul Scherrer Institut (PSI), Villigen, SWITZERLAND.

"Structural aspects in G protein-coupled receptor activation".

- **Dra. NATALIA FERNÁNDEZ.** Cátedra de Química Medicinal, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, ARGENTINA.

"Biased inversed agonism at histamine H2 receptors".

14- YOUNG INVESTIGATOR SYMPOSIUM

Four researchers younger than 40 years old will be selected by the 2013 SAIC Board to participate in this symposium. They will be selected from the applications received up to May 31st 2013 according to both the CV of the applicant and the suggested topic for the talk.

3- POSTER SESSIONS

All the submitted abstracts will be presented as posters in the following sections: Hematology, Gastroenterology, Oncology, Neurosciences, Nephrology, Cardiovascular, Signal Transduction, Endocrinology, Reproduction, Metabolism and Nutrition, Pharmacology and Infectious Diseases. In addition, several abstracts will be selected to be presented as short talks in the Symposia.

4- AWARDS

The different Award Selection Committees will be designated by each participating Society.

1-CHERNY AWARD

The Cherny Award will be given to the best work presented at the Interdisciplinary Session. Additional information and requirements are available at www.saic.org.ar

2- MONTUORI- FUNDACIÓN GADOR AWARD

The Montuori-Fundación Gador Award will be given to the best work presented on "Advances in Oncology". Additional information and requirements are available at www.saic.org.ar

3- SOTO AWARD

The Soto Award will be given to the best work in Neurosciences. Additional information and requirements are available at www.saic.org.ar

4- POSTER AWARDS

This year, and for the first time, SAIC will give Poster Awards in each discipline to graduate or undergraduates students presenting their work at the SAIC-SAFIS-SAFE Meeting. Selection of awardees will be based on both the quality for scientific research work and its poster presentation to the Poster Award Selection Committee. Additional information and requirements are available at www.saic.org.ar

5- SAFIS 2013 AWARD

The Argentine Society of Physiology will give the SAFIS 2013 Award to the best work in any field of Physiological Sciences except Cardiovascular Physiology. Additional information and requirements are available at <http://safisiol.org.ar/>.

6- CAMILION DE HURTADO AWARD

The Argentine Society of Physiology will give the Camili3n de Hurtado Award to the best work in Cardiovascular Physiology. Additional information and requirements are available at <http://safisiol.org.ar/>.

7- SAFE 2013 AWARD

The Argentine Society of Experimental Pharmacology will give the SAFE 2013 Award to the best work selected from applications sent by members of the Society younger than 40 years old. Additional information and further requirements are available at <http://www.safe-digital.org/>.

5- TRAVEL AWARDS

Funds will be provided by SAIC to graduate students, postdoctoral fellows and junior faculty members to attend, present their research and participate fully in the SAIC-SAFIS-SAFE Meeting. In addition, funds will be also provided by SAIC to Latin-American students and fellows in order to promote regional scientific cooperation. Additional information and requirements are available at www.saic.org.ar. SAFE and SAFIS will also provide funds to fellows and students to attend and present their research. Additional information and requirements are available at: <http://www.safe-digital.org/> and <http://safisiol.org.ar/>, respectively.

6- SHORT COURSES

The following short courses will be offered at the SAIC-SAFIS-SAFE Meeting to students, fellows and young investigators.

- ***"Non lineal microscopy applied to clinical studies."***
Dr. Javier Adur
- ***"Capillary electrophoresis: From basic to clinical research."***
Dr. Valeria Trípodí
- ***"Translational bioinformatics: From genomics to personalized medicine."***
Dr. Marcelo Martí.
- ***"Ethical considerations for the evaluation of research protocols in animals."***
Dr. Adela Rosenkranz and Dr. Marcela Reuelto
- ***"Analysis and interpretation of protein structures"***.
Dr. Diego Ferreiro
- ***"Informed consent."***
Dr. Karin Kopitowski
- ***"Experimental methods applied to the study of xenobiotic transport and metabolism."***
Dr. Guillermo Virkel

- ***"Anesthesia, analgesia and euthanasia in laboratory animals."***
Vet. Andrea Zaccagnini
- ***"Identification of genetic mutations and epigenetic alterations by MLPA and MS-MLPA"***
Dr. María Roqué

6- SCIENCE POLICY

A workshop on Science Policy will be held with the participation of National Authorities of Science and Technology, Presidents of the participating Societies of the Meeting (SAIC, SAFE and SAFIS) and Presidents of other biomedical Societies of Argentina (SAIB, SAN and SAI).