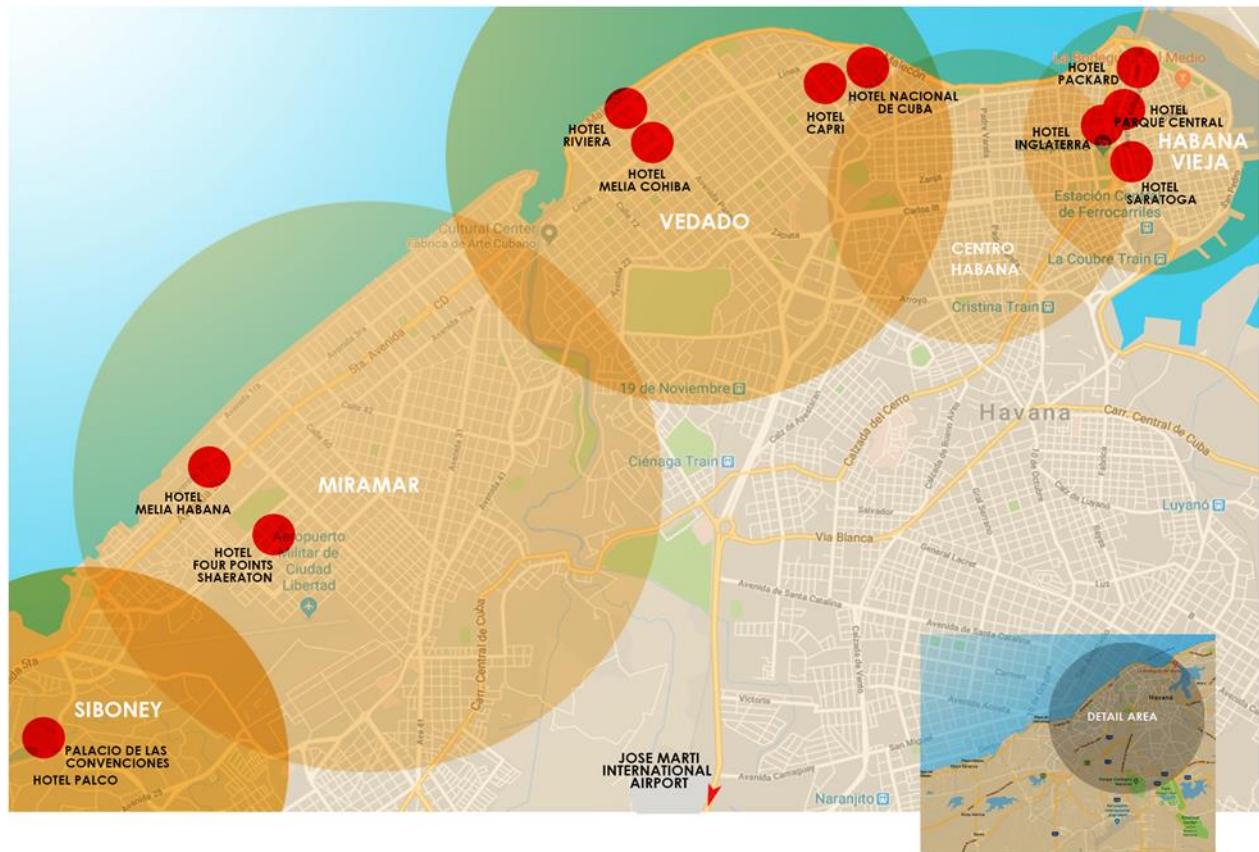


PANAM2019 DAY 01 MONDAY

MAY 27 2019



PANAM2019 2ND Pan American Congress of Physiological Sciences

La Habana Cuba

08:00 AM - 04:30 PM

REGISTRATION

04:30 PM - 05:30 PM

OPENING CEREMONY Room 3

05:30 PM - 06:30 PM

PLENARY SPEAKER

MARTY FRANK, Ph.D. USA Room 3

Title **Physiology Without Borders**

06:30 PM - 08:00 PM

WELCOME RECEPTION | "BUCAN" RESTAURANT

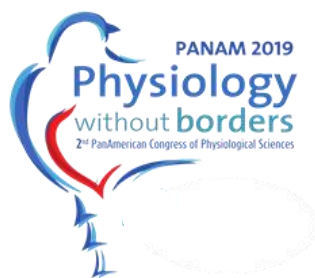
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| Official Program DAY 01



PANAM2019 DAY 02 TUESDAY

MAY 28 2019

08:30AM - 09:30 AM

PLENARY SPEAKER

JACK FELDMAN, Ph.D. University of California, Los Angeles, USA **Room 3**

Title **NEURAL CONTROL OF BREATHING**

09:30 AM - 09:45 AM

COFFEE BREAK

09:45 AM - 11:45 AM

Symposium: Novel Mechanisms of Cardiac Failure Room 11

Chair: Jason Gardner, Ph.D.; Louisiana State University, USA

Speaker 1: Lisandra de Castro Bras, Ph.D.; East Carolina University, USA

Title: ECM-derived peptide binds to cardiac fibroblasts to guide scar formation post-MI

Speaker 2: Jason Gardner, Ph.D.; Louisiana State University, USA

Title: Lysyl oxidase activity promotes cardiac dysfunction and adverse remodeling

Speaker 3: Sarah Lindsey, Ph.D.; Tulane University, USA

Title: Cardioprotection Induced by Membrane-Initiated Estrogen Signaling

Speaker 4: John Calvert, Ph.D.; Emory University, USA

Title: DJ-1 Protects the Failing Heart by Opposing Glycative Stress

Speaker 5: Loren Wold, Ph.D.; Ohio State University, USA

Title: Environmental triggers of cardiac dysfunction

09:45 AM - 11:45 AM

Symposium: From Physiology to Pathology: New Horizons in Obesity-linked Insulin Resistance Room 6

Chair: Amira Klip, Ph.D.; University of Toronto, Canada

Speaker 1: Enrique Jaimovich, Ph.D.; Universidad de Chile, Chile

Title: Reactive oxygen species and the NADPH Oxidase NOX2: critical input on muscle metabolism

Speaker 2: Assaf Rudich, M.D., Ph.D.; Ben Gurion University, Israel

Title: Autophagy and its dysregulation in obesity in fat cells and macrophages: From cell physiology to clinical impact.

Speaker 3: Patrick Fueger, Ph.D.; Beckman Research Institute at City of Hope, USA

Title: Pancreatic beta cell synchrony and adaptation: a continuum from a single meal to obesity

Speaker 4: Tiffany Horng, Ph.D.; School of Public Health- Harvard University, USA

Title: Macrophages and metaboli

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1 | Official Program DAY 02

09:45AM - 11:45 AM **IASH Symposium: Intracellular Angiotensin Forming Mechanisms in Heart and Renal Disease: Myth or Reality? Room 3**
Chair: Jasmina Varagic, M.D., Ph.D.; The Hypertension and Vascular Research Center, USA

Speaker 1: Carlos Ferrario, M.D.; Wake Forest University, USA
Title: The Chymase/Angiotensin-(1-12) axis in cardiovascular and renal pathophysiology.

Speaker 2: Bina Joe, Ph.D.; University of Toledo, USA
Title: Beyond the host renin-angiotensin system: Salt-responsive microbiota and metabolites as new factors regulating hypertension.

Speaker 3: Gabriel Navar, Ph.D.; Tulane University, USA
Title: The Intratubular Renin-Angiotensin System in Hypertension and Diabetes

Speaker 4: Minolfa Prieto, M.D., Ph.D.; Tulane University, USA
Title: Recent Advances in The Biology Of The RAS In The Distal Nephron In Hypertension.

09:45 AM - 11:45 AM **Symposium: Respiratory control in health and disease: from neurons to glia and beyond Room 5**
Chair: Rodrigo Del Rio, Ph.D.; Pontificia Universidad Catolica De Chile

Speaker 1: Ana Takakura, Ph.D.; Universidade de Sao Paulo, Brazil
Title: Prebotzinger complex neurons and Parkinson's disease

Speaker 2: Daniel Mulkay, Ph.D.; University of Connecticut, USA
Title: Disordered breathing and mortality in Dravet syndrome

Speaker 3: Alexander Gourine, Ph.D.; University College London, UK
Title: Control of brainstem respiratory circuit activity by astrocytes

09:45 AM - 11:45 AM **Symposium: Evolution and Development of Breathing Circuits in Mammals / Room 7**
Chair: Jack Feldman, Ph.D.; University of California, Los Angeles, USA

Speaker 1: William Milsom, Ph.D.; University of British Columbia, Canada
Title: Evolutionary trends in central respiratory rhythm generation

Speaker 2: Gregory Funk, Ph.D.; University of Alberta, Canada
Title: The astrocytic modulation of respiratory networks

Speaker 3: TBD
Title:

Speaker 4: Luciane H. Gargaglioni; Ph.D.; São Paulo State University, Brazil
Title: Catecholaminergic neurons and breathing control during development

11:45 AM - 02:45 PM **POSTER SESSION | GRAND FOYER (EXHIBITION AREA)**
OPTIONAL LUNCH | "BUCAN" RESTAURANT

02:45 PM - 04:45 PM

Symposium: Neuroplasticity: From Motor Neurons to Muscle Room 3

Chair: Gary Sieck, Ph.D.; Mayo Clinic, Minnesota, USA

Speaker 1: Gary Sieck, Ph.D.; Mayo Clinic, USA
Title: Phrenic Motor Neuron Plasticity: From SCI to Aging

Speaker 2: Brigitte van Zundert, Ph.D.; Andres Bello University, Santiago, Chile
Title: Astrocyte-MN interactions in multiple models of ALS.

Speaker 3: Joline Brandenburg, M.D.; Mayo Clinic, USA
Title: Developmental Neuroplasticity in Cerebral Palsy

Speaker 4: Ricardo Tapia, M.D., Ph.D.; Universidad Nacional Autónoma de México
Title: Excitatory and Inhibitory Neuronal Circuits in the Spinal Cord and Their Role in the Control of Motor Neuron Function and Degeneration

02:45 PM - 04:45 PM

Symposium: Regulation of Cellular pH Room 5

Chair: John Orłowski, Ph.D.; McGill University, Canada

Speaker 1: Seth Alper, M.D., Ph.D.; Harvard Medical School, USA
Title: Anion Exchanger Regulation of Urinary and Systemic pH

Speaker 2: Adriana Girardi, Ph.D.; University of Sao Paulo Medical School, Brazil
Title: Role of Myosin Motor Proteins in Mediating NHE3 Regulation in the Renal Proximal Tubule

Speaker 3: Yamuna Krishnan, Ph.D.; University of Chicago, USA
Title: A pH-correctable fluorescent reporter for lysosomal calcium

Speaker 4: John Orłowski, Ph.D., McGill University, USA
Title: Endomembrane pH Dysregulation and Neurodevelopmental Disorders

02:45 PM - 04:45 PM

Symposium: Cerebrospinal Fluid Analysis in Neuroimmunological Diseases Room 6

Chair: Alberto Dorta Contreras, Ph.D.; Universidad de Ciencias Médicas de La Habana Cuba

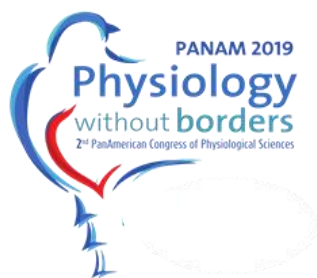
Speaker 1: Lourdes Lorigados Pedré, Ph.D.; CIREN, Cuba
Title: Neuroimmunology and Epilepsy

Speaker 2: Hansotto Reiber, Ph.D.; Brazil, Germany
Title: CSF Analysis in neuroimmunological diseases

Speaker 3: Alberto Juan Dorta Contreras, Ph.D.; Universidad de Ciencias Médicas de La HabanaCuba
Title: Neuroimmunological patterns in neuroinfectious diseases

Speaker 4: Luiggi Martini Robles, Ph.D.; Ecuador
Title: Cerebrospinal fluid analysis in *Angiostrongylus cantonensis* meningoencephalitis

- 02:45 PM - 04:45 PM **Symposium: Interplayers in Energy homeostasis Room 7**
Chair: Lucila Elias, Ph.D.; University of São Paulo, São Paulo, Brazil & Carol Elias, Ph.D.; University of Michigan, USA
Speaker 1: Carol Elias, Ph.D.; University of Michigan, USA
Title: Role of PI3k linking metabolism and neuroendocrine responses
Speaker 2: Marianna Sadagurski, Ph.D.; Wayne State University, USA
Title: Role of hypothalamic GHR-SIRT1 axis in energy homeostasis
Speaker 3: Yanaira Alonso-Caraballo, Ph.D. Student; University of Michigan, USA
Title: Effects of the ovarian cycle on brain reward systems and craving.
- 02:45 PM - 04:45 PM **Workshop: Education Workshop: "Evaluating and sharing best practices in physiology education Room 11**
Chair: Dee Silverthorn, Ph.D.; Dell Medical School, The University of Texas at Austin, USA
Co-Presenter: Robert Carroll, Ph.D.; Brody School of Medicine, East Carolina University, USA
- 04:45 PM - 05:00 PM COFFEE BREAK**
- 05:00 PM - 06:00 PM **Keynote: Identification of a Shared Receptor for Pain and Hunger Room 6**
Speaker: Willis Samson, Ph.D.; St. Louis University School of Medicine; USA
- 05:00 PM - 06:00 PM **Keynote: The endothelial microvasculature as an active conduit for glucose and insulin to tissues Room 3**
Speaker: Amira Klip, Ph.D.; University of Toronto, Canada
- 05:00 PM - 06:00 PM **Keynote: Large-scale information channeling in the human brain Room 5**
Speaker: Mitchell Joseph Valdés-Sosa, Ph.D.; Cuban Neuroscience Center, Cuba
- 05:00 PM - 06:00 PM **Keynote: Fish of the Amazon: facing extreme environmental challenges Room 7**
Speaker: Adalberto Val, Ph.D.; INPA – Brazilian Institute for Research of the Amazon, Brazil
- 06:00 PM - 06:30 PM **Societies Meeting: Latin American Physiological Society and III Pan American Congress Room 5**



PANAM2019 DAY 03 WEDNESDAY

MAY 29 2019

08:30 AM - 09:30 AM

PLENARY SPEAKER

CARLOS FERRARIO, M.D. Wake Forrest University, USA **Room 3**

Title **Chymase, the forgotten critical angiotensin II forming enzyme in cardiovascular tissues**

09:30 AM - 09:45 AM

COFFEE BREAK

09:45 AM - 11:45 AM

Symposium: Neonatal Lung Disease: Understanding Where it All Begins Room 5

Chair: Y.S. Prakash, M.D., Ph.D.; Mayo Clinic, USA

Speaker 1: Rodney Britt, Jr., Ph.D.; The Ohio State University, USA

Title: Role of Airway Smooth Muscle in Neonatal Airway Disease

Speaker 2: Peter MacFarlane, Ph.D.; Case Western University, USA

Title: Continuous Positive Airway Pressure and Neonatal Airway Remodeling: Role of Hyaluronans

Speaker 3: Conrado Llapur, M.D.; Universidad Nacional de Tucuman, Argentina

Title: Airways in Bronchopulmonary Dysplasia

Speaker 4: Peter Vitiello, Ph.D.; Sanford Medical Center; USA

Title: Redox Signaling and Physiology in the Neonatal Lung

09:45 AM - 11:45 AM

Symposium: Generation of motor rhythms: Breathe, Locomote and Chew Room 3

Chair: Jack Feldman, Ph.D.; University of California, Los Angeles, USA

Speaker 1: Abdel El Manira, Ph.D.; Karolinska Institute, Sweden

Title: Functional diversity of interneurons and their circuit assembly in adult zebrafish

Speaker 2: Christopher Del Negro, Ph.D.; College of William and Mary, USA

Title: Cellular and ion channel mechanisms of inspiratory breathing movements

Speaker 3: Ole Kiehn, M.D.; University of Copenhagen, Denmark

Title: Brainstem control of movement

Speaker 4: Arlette Kolta, Ph.D.; Université de Montreal, Canada

Title: Astrocyte-dependent rhythmogenesis and sensorimotor integration in trigeminal circuits responsible for mastication

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- 09:45 AM - 11:45 AM **Symposium: Mechanisms of Water Reabsorption in the Kidney: Implications for Nephrogenic Diabetes Insipidus and Chronic Kidney Disease Room 7**
Chair: Jeff Sands, M.D.; Emory University, USA
- Speaker 1: Jeff Sands, M.D.; Emory University, USA
 Title: Novel therapies for nephrogenic diabetes insipidus
- Speaker 2: Vicki Hertzberg, Ph.D.; Emory University, USA
 Title: Role of heat exposure and dehydration in kidney disease in farm workers
- Speaker 3: Richard Johnson, M.D.; University of Colorado, Denver, USA
 Title: A Novel Role for Vasopressin in Metabolic Diseases: A Link with Obesity and Diabetes
- Speaker 4: Laura-Gabriela Sánchez-Lozada, Ph.D.; Instituto Nacional de Cardiología, Mexico
 Title: Rehydration with Soft Drink-like Beverages Exacerbates Dehydration and Worsens Dehydration-associated Renal Injury
- 09:45 AM - 11:45 AM **Symposium: The physiology of the host-pathogen interface Room 6**
Chair: Sergio Grinstein, Ph.D.; University of Toronto, Canada
- Speaker 1: Norma Andrews, Ph.D.; University of Maryland, USA
 Title: Lysosomal fusion in response to Trypanosoma invasion
- Speaker 2: Carlos Rosales, Ph.D.; Universidad Autonoma de Mexico
 Title: Human neutrophils deploy NET against Entamoeba histolytica
- Speaker 3: Dario Zamboni, Ph.D.; University of Sao Paulo, Brazil
 Title: Inflammatory response to Legionella infection
- Speaker 4: Samantha Gruenheid, Ph.D.; McGill University, Canada
 Title: New links between intestinal infection, mitochondrial antigen presentation and Parkinson's Disease
- 09:45 AM - 11:45 AM **Symposium: Cardiac regeneration: hope without borders Room 11**
Chair: Alberto José Crottogini, M.D., Ph.D.; Favaloro University, Argentina
- Speaker 1: José Krieger, M.D., Ph.D.; São Paulo Federal University, Brazil
 Topic: Challenges to mend a broken heart
- Speaker 2: Maurizio Capogrossi, M.D.; Johns Hopkins Bayview Medical Center, USA
 Topic: Cardiac mesenchymal cells and heart repair
- Speaker 3: Santiago Miriuka, M.D., Ph.D.; FLENI, Buenos Aires, Argentina
 Topic: Modulation of cell proliferation in iPSC-derived cardiomyocytes
- Speaker 4: Paola Locatelli M.D., Ph.D.; Favaloro University, Buenos Aires, Argentina
 Topic: Targeting the cardiomyocyte cell cycle for myocardial regeneration
- 11:45 AM - 02:45 PM POSTER SESSION | GRAND FOYER (EXHIBITION AREA)**
OPTIONAL LUNCH | "BUCAN" RESTAURANT

02:45 PM - 04:45 PM

Symposium: *Melatonin, from basics concepts to clinical application* **Room 6**

Chair: Jose Cipolla-Neto, M.D., Ph.D.; University of São Paulo, Brazil

Speaker 1: Jose Cipolla-Neto, M.D., Ph.D.; University of São Paulo, Brazil
Title: Melatonin, The Basics

Speaker 2: Russel Reiter, Ph.D.; UT Health Center at San Antonio, USA
Title: Melatonin as a Guardian of Mitochondrial Redox Homeostasis

Speaker 3: Dario Acuna Castroviejo, M.D., Ph.D.; University of Granada, Spain
Title: Melatonin, clock genes, and aging

Speaker 4: Ovidiu C. Baltatu, M.D., Ph.D.; Anhembi Morumbi University., Brazil
Title: The Heart in the Rhythm of the Night

Speaker 5: David Blask, M.D., Ph.D.; Tulane University School of Medicine, USA
Title: Role of Melatonin, Circadian Timing and Light in Cancer

02:45 PM - 04:45 PM

Symposium: *Exercise training and cardiovascular autonomic function: friend or foe?* **Room 5**

Chair: Harold Schultz; Ph.D.; University of Nebraska College of Medicine

Speaker 1: Rodrigo Del Rio, Ph.D.; Pontificia Universidad, Chile
Title: How good is exercise training in heart failure?

Speaker 2: Andrei Krassioukov, M.D., Ph.D.; University of British Columbia, Canada
Title: Autonomic dysreflexia following spinal cord injury: the good, the bad and the ugly

Speaker 3: Annie Ginty, Ph.D.; Baylor University, USA
Title: Cardiovascular and autonomic reactivity to psychological stress: Neurophysiological substrates and links to cardiovascular disease

Speaker 4: Lauro Vianna, Ph.D.; University of Brasília, Brazil
Title: Neurotransmission during exercise in humans: new Insights into autonomic reflexes

Speaker 5: Debra Colombari, Ph.D.; São Paulo State University, Brazil
Title: Resistance training and cardiovascular changes caused by high-fat diet

02:45 PM - 04:45 PM

Symposium: *Teaching Physiology: The challenge of motivating students* **Room 3**

Chair: Alicia Mattiazzi, M.D.; National University of La Plata, La Plata, Argentina

Speaker 1: Claudia Caldiz, Ph.D.; Centro de Investigaciones cardiovasculares, Argentina
Title: Let's make the most of the study of physiology

Speaker 2: Robert Carrol, Ph.D.; East Carolina University, USA
Title: Approaches to Encourage Students to Study Physiology

Speaker 3: Matilde Said, Ph.D.; Centro de Investigaciones cardiovasculares, Argentina
Title: Encouraging experimental teaching of science as a way of improving scientific education in Physiology

Speaker 4: Paulo Fernando Guedes Pereira, Ph.D.; Cidade Universitária, Brazil
Title: Motivating future teachers to teach physiology

Speaker 5: Maria Agustina Silvestri, Ph.D.; Cátedra de Fisiología, Argentina
Title: Why I was excited when studying human physiology?

02:45 PM - 04:45 PM **Workshop: Publication Workshop: "How to publish your research" Room 11**
Chair: Kim Barrett, Ph.D.; University of California, San Diego; USA

Speaker 1: Mike Tipton, Ph.D.; University of Portsmouth; UK
Title: What to think about before you write – linking from hypothesis to experimental design to telling a good story

Speaker 2: Kim Barrett, Ph.D.; University of California, San Diego; USA
Title: Best practices for structuring your manuscript and displaying your data

Speaker 3: Christina Bennett, Ph.D.; American Physiological Society, USA
Title: How to avoid ethical minefields when publishing your work

Speaker 4: Bill Yates, Ph.D.; University of Pittsburgh; USA
Title: Special considerations for conducting and reporting on animal studies in physiological journals

Editors' panel moderated by Kim Barrett:
Mike Tipton, Ph.D.; University of Portsmouth; UK
Bill Yates, Ph.D.; University of Pittsburgh; USA
Irv Zucker, Ph.D.; University of Nebraska; USA
Sue Bodine, Ph.D.; University of Iowa; USA
Gary Sieck, Ph.D.; Mayo Clinic; USA

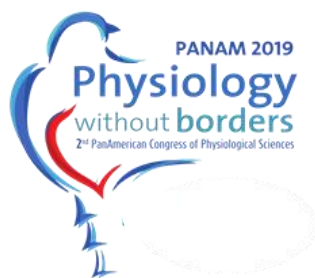
04:45 PM - 05:00 PM COFFEE BREAK

05:00 PM - 06:00 PM **Keynote: Alcohol Interaction with HIV Disease: Translational Approach to Understanding Mechanism & Comorbidities Room 3**
Speaker: Patricia Molina, M.D., Ph.D.; Louisiana State University, USA

05:00 PM - 06:00 PM **Keynote: Cardiac failures associated to diabetes and obesity Room 5**
Speaker: Oscar Lorenzo González, Ph.D, Spain-Cuba

05:00 PM - 06:00 PM **Keynote: Pleiotropism of the renin-angiotensin system: what doesn't it do? Room 6**
Speaker: Robert Speth, Ph.D.; Nova Southeastern University, USA

05:00 PM - 06:00 PM **Keynote: Physiological basis of oxygen sensing Room 7**
Speaker: Nanduri Prabhakar, Ph.D.; The University of Chicago, USA



PANAM2019 DAY 04 THURSDAY

MAY 30 2019

08:30 AM - 09:30 AM

PLENARY SPEAKER

SERGIO LAVANDERO, University of Chile **Room 3**

Title: **Cell signaling in cardiovascular disease**

09:30 AM - 09:45 AM

COFFEE BREAK

09:45 AM - 11:45 AM

Symposium: Neuroinflammation and autonomic dysfunction in cardio-respiratory diseases **Room 6**

Chair: Harold Schultz, Ph.D.; University of Nebraska College of Medicine, USA

Speaker 1: Talita Silva, Ph.D., University of Sao Paulo, Brazil

Title: Hypoxia-induced inflammatory markers are modulated by minocycline in central autonomic brain nuclei

Speaker 2: Martin Gerbert Frasch, M.D., Ph.D.; University of Washington, USA

Title: Vagus nerve and neuroinflammation: insights from the pregnant sheep model

Speaker 3: Hanjun Wang, M.D.; University of Nebraska Medical Center, USA

Title: Neural Inflammation and Cardiac Spinal Afferent Sensitization in Post-Myocardial Infarction Rats

Speaker 4: Harold Schultz, Ph.D.; University of Nebraska College of Medicine

Title: Inflammation and Carotid Body Function in Heart Failure

09:45 AM - 11:45 AM

Symposium: Neuroplasticity: From Motor Neurons to Muscle-Neuromuscular Plasticity **Room 11**

Chair: Carlos Mantilla, M.D., Ph.D.; Mayo Clinic, USA

Speaker 1: Carlos Mantilla, M.D., Ph.D.; Mayo Clinic, USA

Title: Lipid raft dynamics at type-identified axon terminals of neuromuscular junctions

Speaker 2: Teresa Pitts, Ph.D.; University of Louisville, USA

Title: Plasticity of the muscles controlling swallow and cough

Speaker 3: Richard Robitaille, Ph.D.; University of Montreal, Canada

Title: Schwann cell interactions with neuromuscular junctions: adaptable and multi-tasking

Speaker 4: Matthew Fogarty, Ph.D.; Mayo Clinic, USA

Title: Stimulus-dependent alterations of neuromuscular transmission in aging

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09:45 AM -11:45 AM

IASH Symposium: Novel Thoughts Open New Windows into the Function of the Intrarenal RAAS in Cardiovascular Diseases Room 3
Chair: Minolfa Prieto, M.D., Ph.D. & L. Gabriel Navar, Ph.D.; Tulane University, USA

Speaker 1: L. Gabriel Navar, Ph.D.; Tulane University, USA
Title: Augmentation of intrarenal angiotensinogen in hypertension and diabetes

Speaker 2: Minolfa C. Prieto, M.D., Ph.D.; Tulane University, USA
Title: Impact of the interactions of renin, prorenin receptor, and soluble prorenin receptor in cardiovascular diseases

Speaker 3: Romer Gonzalez-Villalobos, M.D., Ph.D.; Janssen Research and Development, USA
Title: Recent advances in the biology of renal ACE

Speaker 4: Dulce E. Casarini, Ph.D.; Federal University of Sao Paulo, Sao Paulo-Brazil
Title: Association between 90 kDa N-domain ACE isoform and the presence of arterial hypertension

09:45 AM - 11:45 AM

Symposium: Biomarkers for Early Diagnosis of asymptomatic cerebral small vessel disease (CSVD) in High Risk Patients Room 7

Chair: Alina Gonzalez-Quevedo, M.D., Ph.D.; Instituto de Neurología y Neurocirugía; Cuba

Speaker 1: Svetlana Dambinova, Ph.D.; DeKalb Medical Center ; USA
Title: Molecular Biomarkers: Concept in traumatic and ischemic brain injury

Speaker 2: Alina Gonzalez-Quevedo, M.D., Ph.D.; Instituto de Neurología y Neurocirugía; Cuba
Title: Circulating biomarkers of brain damage for the detection of subclinical CSVD in patients with arterial hypertension

Speaker 3: Zenaida Hernandez, Ph.D.; Cuba
Title: Brain MRI findings for CSVD in asymptomatic individuals with vascular risk factors

09:45 AM - 11:45 AM

Symposium: Perinatal environment and developmental programming: Insights into the origins and mechanisms of cardio-respiratory disorders throughout life Room 5

Chairs: Luciane Gargaglioni, Ph.D.; São Paulo State University, Brazil & Richard Kinkead, Ph.D.; Laval University, Canada

Speaker 1: Marco Bataglia, Ph.D.; CAMH, Canada
Title: Impact of early adversities on respiratory homeostasis: translational approaches

Speaker 2: Tracy Baker, Ph.D.; University of Wisconsin, USA
Title: Epigenetic reprogramming of fetal microglia by gestational intermittent hypoxia impairs respiratory neuromotor control in adult offspring.

Speaker 3: Luciane H Gargaglioni, Ph.D.; São Paulo State University, Brazil
Title: The short, medium and long-term effects of pharmacological in utero interventions in the cardiorespiratory control system.

Speaker 4: Adrienne Huxtable, Ph.D.; University of Oregon, USA
Title: The lasting consequences of early life events on respiratory control.

Speaker 5: Richard Kinkead, Ph.D.; Laval University, Canada
Title: The sex-specific effects of neonatal stress on respiratory manifestations of panic disorder in rats.

11:45 AM - 02:45 PM

POSTER SESSION | GRAND FOYER (EXHIBITION AREA)
OPTIONAL LUNCH | "BUCAN" RESTAURANT

02:45 PM - 04:45 PM

Symposium: Glial cells function and neuroinflammation in the healthy and diseased nervous system Room 6

Chair: Rommy von Bernhardt, M.D., Ph.D.; Pontificia Universidad Catolica de Chile

Speaker 1: Silvia Lima Costa, Ph.D.; Universidade Federal da Bahia, Brazil
Title: Neuroprotective and anti-neuroinflammatory related effects of the phytoestrogen agathisflavone

Speaker 2: David Loane, Ph.D.; University of Maryland, USA
Title: Redox regulation of post-traumatic neuroinflammation: mechanisms and therapeutic opportunities

Speaker 3: Silvia Olivera, Ph.D.; Clemente Estable Institut of Biological Research, Uruguay
Title: Astrocytes with an inflammatory secretome: implications for glutaric acidemia type I and other neurometabolic diseases

Speaker 4: Rommy von Bernhardt, M.D., Ph.D.; Pontificia Universidad Catolica de Chile
Title: Scavenger receptor-A in Alzheimer's disease: age-associated changes and glial cell dysfunction.

02:45 PM - 04:45 PM

Symposium: Renin-angiotensin system: new paradigms Room 5

Chair: Maria Campagnole-Santos, Ph.D.; Universidade Federal de Minas Gerais, Brazil

Speaker 1: Robson Santos, Ph.D.; Universidade Federal de Minas Gerais, Brazil
Title: Alamandine: a new counterregulatory peptide of the RAS?

Speaker 2: Michael Bader, Ph.D.; Max Delbrück Center For Molecular Medicine, Germany
Title: Transgenic animal models reveal the functions of the alternative renin-angiotensin system

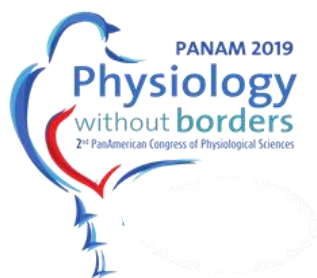
Speaker 3: Natalia Aleina, Ph.D.; Max Delbrück Center for Molecular Medicine, Germany
Title: The multiple faces of ACE2: from renin-angiotensin system to serotonin metabolism and skin tanning

Speaker 4: Maria Campagnole-Santos, Ph.D.; Universidade Federal de Minas Gerais, Brazil
Title: Actions of the counterregulatory axes of the RAS in asthma

Speaker 5: Maria Claudia Irigoyen, M.D., Ph.D.; University of São Paulo, Brazil
Title: Autonomic Imbalance in Cardiovascular Disease: a role for RAS

- 02:45 PM - 04:45 PM **Symposium: Role of neuropeptides in stress, anxiety and other mental disorders Room 7**
Chair: Yordanka Cuza, MD, PhD ICBP "Victoria de Girón ; Habana, Cuba
- Speaker 1: Lee Eiden, Ph.D.; National Institute of Health; USA*
Title: The role of the neuropeptide PACAP in anxiogenic, depressive, and addiction-relapse effects of acute and chronic stress
- Speaker 2: Miguel Perez de las Moras, M.D., Ph.D.; Universidad Nacional Autónoma de México*
Title: Oxytocin- monoamine-interactions within amygdala. Their role in the modulation of anxiety
- Speaker 3: Kjell Fuxe, M.D.; Karolinska Institutet, Sweden*
Title: Peptide-Monoamine integration through allosteric receptor-receptor interactions in heteroreceptor complexes. Focus on NTS1-D2R and GalR-5-HT1AR receptor-receptor interactions and their relevance for mental disorders
- Speaker 4: Dasiel Borroto, Ph.D.; Karolinska Institutet; Sweden*
Title: Evidence for the existence of oxytocin heteroreceptor complexes in the amygdala of the rat brain and their role in social interactions and anxiety-like behavior
- Speaker 5: Yordanka Cuza, Ph.D.; ICBP Victoria de Girón, Cuba*
Title: General remarks
- 02:45 PM - 04:45 PM **Symposium: Modulation and Plasticity of Breathing Room 3**
Chair: Jack Feldman, Ph.D., University of California, Los Angeles, USA
- Speaker 1: Nanduri Prabhakar, Ph.D.; University of Chicago, USA*
Title: Sensory plasticity of the carotid body
- Speaker 2: Gordon Mitchell, Ph.D.; University of Florida, USA*
Title: Cellular mechanisms of intermittent hypoxia-induced phrenic motor plasticity
- Speaker 3: Consuelo Morgado, Ph.D.; Universidad Veracruzana, Mexico*
Title: Peptidergic modulation of inspiratory burst duration
- Speaker 4: Thiago Moreira, Ph.D.; University of São Paulo, Brazil*
Title: Selective Depletion of Astrocytes Derived From a Phox2b-Progenitor Domain Reduces Breathing in Conscious Mice
- 02:45 PM - 04:45 PM **Workshop: Networking: Promoting Collaboration Across Borders Room 11**
Chair: Gary Sieck, Ph.D.; Mayo Clinic, USA
Co-Chair: Susan Barman, Ph.D.; Michigan State University, USA
- 04:45 PM - 05:00 PM COFFEE BREAK**
- 05:00 PM - 06:00 PM **Keynote: Host defense mechanisms against invading microorganisms Room 5**
Speaker: Sergio Grinstein, Ph.D.; University of Toronto, Canada

- 05:00 PM - 06:00 PM **Keynote:** *Physiological basis of biodiversity in vertebrates* **Room 7**
Speaker: *William Milsom, Ph.D.; University of British Columbia Vancouver, Canada*
- 05:00 PM - 06:00 PM **Keynote:** *Forming partnerships between basic science and clinical practice*
Room 3
Speaker: *Rienzi Diaz, M.D. / Gary Sieck, Ph.D.; University of Valparaiso, Chile
Mayo Clinic*
- 05:00 PM - 06:00 PM **Keynote:** *Retina as a surrogate marker of cerebral small vessel disease* **Room 6**
Speaker: *Valia Rodriguez-Rodriguez, ; Aston University, Birmingham, England*



PANAM2019 DAY 05 FRIDAY

MAY 31 2019

08:30 AM - 09:30 AM

PLENARY SPEAKER

HANSOTTO REIBER Ph.D.; University of Sao Paulo, Brazil **Room 3**

Title **The polyspecific Immune response and the immunological connectivity in chronic diseases**

09:30 AM - 09:45 AM

COFFEE BREAK

09:45 AM - 11:45 AM

Symposium: Innovations in Physiology Education Room 3

Chair: Patricia Halpin, Ph.D.; University of New Hampshire at Manchester; USA

*Speaker 1: Agustín Vicedo, M.D., Ph.D.; Universidad Médica de la Habana, Cuba
Title: Teaching the Physiological Sciences: Old Debts and New Challenges*

*Speaker 2: Camilo Lellis-Santos, Ph.D.; Universidade Federal São Paulo, Brazil
Title: Using Role-Playing for Personalized Learning in Physiology Classrooms*

*Speaker 3: Chaya Gopalan, Ph.D.; Southern Illinois University, USA
Title: Using the Flipped Classroom Technique in Teaching Physiology*

*Speaker 4: Maria José Alves da Rocha, Ph.D.; University of São Paulo, Brazil
Title: Using clinical cases and peer instruction to increase the responsibility of the students in their teaching process.*

09:45 AM - 11:45 AM

Symposium: Glucocorticoid regulation of immune, circadian, stress & alcohol signaling in the brain Room 5

Chair: Nicholas Gilpin, Ph.D.; LSU Health Sciences Center, USA

*Speaker 1: Scott Edwards, Ph.D.; LSU Health Sciences Center, USA
Title: Glucocorticoid receptor regulation of alcohol dependence-related behaviors*

*Speaker 2: Carolina Munhoz, Ph.D.; University of Sao Paulo, Brazil
Title: The Pro-inflammatory Effects of Glucocorticoids in the Brain*

*Speaker 3: Iliia Karatsoreos, Ph.D.; Washington State University, USA
Title: Stress and circadian rhythm effects in health & disease*

*Speaker 4: Nuria Daviu, Ph.D.; University of Calgary, Canada
Title: CRH:PVN neurons decode stress controllability and control voluntary escape*

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09:45 AM - 11:45 AM

Symposium: Evaluating Neuroepidemiology throughout Neuroinflammation / Room 6

Chair: Alberto Dorta Contreras, Ph.D.; Universidad de Ciencias Médicas de La Habana, Cuba

Speaker 1: José Alejandro Rodríguez Pérez, Ph.D.; LABCEL, CUBA

Title: Impact of rubella vaccine in Cuban women for the MRZ reaction in multiple sclerosis patients

Speaker 2: William Castillo-González, Ph.D.; LABCEL CUBA

Title: Rubella, Measles and Mumps Antibody index in vaccinated patients with a neuroinflammation process

Speaker 3: Eneida Barrios-Lamoth, Ph.D.; LABCEL CUBA

Title: Antibody index of cytomegalovirus, herpes zoster and herpes simplex in pediatric patients

Speaker 4: Mileydis Cruz, Ph.D.; LABCEL CUBA

Title: ChildToxoplasma antibody index in neuroinflammation process

Speaker 5: Hansotto Reiber, Ph.D.; Germany-Brazil

Title: Polyspecific immune reaction in neuroinflammation process

09:45 AM -11:45 AM

Symposium: Body Sodium Balance Regulation: mechanisms and neuromodulatory systems participation Room 7

Chair: Laura Marta Vivas, Ph.D.; Universidad Nacional de Córdoba, Argentina

Speaker 1: Michal McKinley, Ph.D.; University of Melbourne, Australia

Title: Hormonal actions on the brain to regulate salt intake during stress or sodium depletion.

Speaker 2: André Mecawi, Ph.D.; Universidade Federal de São Paulo, Brazil

Title: Molecular and physiological responses induced by sodium depletion.

Speaker 3: Ximena Caeiro, Ph.D.; Universidad Nacional de Cordoba, Argentina

Title: Sex differences in body fluid homeostasis: Sex chromosome complement involvement in angiotensinergic and vasopressinergic sexual dimorphisms.

Speaker 4: Andrea Godino, Ph.D.; Universidad Nacional de Cordoba, Argentina

Title: Participation of TRPV1 osmosensitive channel in the control of sodium appetite.

09:45 AM - 11:45 AM

Symposium: Cancer and therapeutic vaccines Room 11

Chair: Danay Saavedra, Ph.D.; Centro de Inmunología Molecular; Cuba

Speaker 1: Danay Saavedra, Ph.D.; Centro de Inmunología Molecular; Cuba

Title: CIMAvax-EFG

Speaker 2: Zaima Mazorra, Ph.D.; Centro de Inmunología Molecular; Cuba

Title: Vaccine effect of Ninotuzumab

Speaker 3: Rydell Álvarez; Centro de Inmunología Molecular; Cuba

Title: Role of VSSP over the suppressor myeloid cells

09:45 AM - 10:45 AM

Keynote: Anthropometric and body composition markers in evolutive bone degeneration **Room 10**
Speaker: Consuelo Prado Martínez, Ph.D.;Universidad Autónoma de Madrid, Spain

11:45 AM - 01:00 PM

CLOSING CEREMONY ROOM 3

01:00 PM - 03:00 PM

FAREWELL LUNCH "BUCAN" RESTAURANT



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