NOVEMBER 2  

PRE-CONGRESS COURSES

09:00 – 18:00 Course:
- How to write a scientific paper. Coordinators: Pascal Poindron and Oscar González-Flores. ROOM Tenerife 1

NOVEMBER 3  

PRE-CONGRESS COURSES

9:00–18:00 Courses:
- How to write a scientific paper. Coordinators: Pascal Poindron and Oscar González-Flores. ROOM Tenerife 1
- Neurotoxicity and pharmacoresistant epilepsy. Coordinator: Luisa Rocha and Sandra Orozco. ROOM Tenerife 2
- Use of software for behavioral analysis of laboratory animals. Coordinators: Dan Blumstein, Kurt Hoffman, and Angel Melo. ROOM Tenerife 3
- Counting cells, synapses and other structures: an introduction to design based stereology and to the isotropic fractionator. Coordinators: Jose Maldonado and Suzana Herculano-Houzel. ROOM Mallorca 1
- Neurobiology of temporal control and perception of time. Coordinators: José Lino Oliveira Buen, Danielle Marcilio Judice Daher and Francisco Carlos Nather. ROOM Mallorca 2
- Neuroimmunomodulation: Bi-directional interactions between the brain and the immune system. Coordinator: João Palemo Neto. ROOM Mallorca 3
NOVEMBER 4

PRE-CONGRESS COURSES

9:00–18:00 Courses:

- How to write a scientific paper. Coordinators: Pascal Poindron and Oscar González-Flores. ROOM Tenerife 1
- Neurotoxicity and pharmacoresistant epilepsy. Coordinator: Luisa Rocha and Sandra Orozco. ROOM Tenerife 2
- Use of software for behavioral analysis of laboratory animals. Coordinators: Dan Blumstein, Kurt Hoffman, and Angel Melo. ROOM Tenerife 3
- Counting cells, synapses and other structures: an introduction to design based stereology and to the isotropic fractionator. Coordinators: Jose Maldonado and Suzana Herculano-Houzel. ROOM Mallorca 1
- Neurobiology of temporal control and perception of time. Coordinators: José Lino Oliveira Buen, Danielle Marcilio Judice Daher and Francisco Carlos Nather. ROOM Mallorca 2
- Neuroimmunomodulation: Bi-directional interactions between the brain and the immune system. Coordinator: João Palemo Neto. ROOM Mallorca 3
- Basic applied neuroimmunology. Coordinators: María Robinson Agramonte and Eduardo Arzt. ROOM Ibiza
- Short course. Multi-factorial insights on the neurobiological mechanisms of drug addiction. Coordinator: Jair Guilherme Santos-Junio. ROOM Menorca

ROOM DEL PRADO

18:00-19:00 OPENING CEREMONY

Master of Ceremony: Alonso Fernández-Guasti

Carlos Belmonte, President of the International Brain Research Organization (IBRO)
The role of IBRO in promoting the creation of regional federations of Neuroscience

Rommy von Bernhardi, President of the Federation of Neuroscience Societies from Latin America and the Caribbean (FALAN)
The creation of FALAN, current status and future perspectives

Rafael Gutiérrez, President of the Scientific Committee
The Academic Program of the congress

Osvaldo Uchitel, President of the IBRO-LARC Committee
The contributions of IBRO-LARC to the development of this meeting

Gabriela González-Mariscal, President of the Mexican Society of Physiological Sciences (SMCF)
SMCF as a key promoter of physiological research and education in Mexico: interaction with the international community

19:00-20:00 OPENING LECTURE:
José Bargas: Presentation of Ranulfo Romo (Instituto de Fisiología Celular, Universidad Nacional Autónoma de México y el Colegio de México) President of “Neurosciences and Neurobiology of Mexico”, who will deliver the talk: “Conversion of sensory signals into perceptual decisions”

20:00-21:00 RECEPTION COCKTAIL
RESTAURANTE LA PERLA
NOVEMBER 5

9:00–11:00 SYMPOSIA

ROOM PICASSO-MURILLO
1.1. Novel Aspects in Vision Neuroscience: from Molecules to Eye Diseases and Visual Function (Symposium LARC-IBRO)
Chair: Mario E. Guido
09:00-09:40  1.1.1. Mónica Lamas. Dept. Farmacobiología, Centro de Investigación y de Estudios Avanzados, CINVESTAV. Müller glia in focus.
10:20-11:00  1.1.3. Dora Fix Ventura. Instituto de Psicologia, Universidade de São Paulo, Brazil. Pupil Responses in Neuropathies and Melanopsin.

ROOM GRECO-DALÍ
1.2. Brain-immune system interaction
Chair: Ruud Buijs
09:00-09:30  1.2.1. Nicolas Cermakian, Douglas Mental Health University Institute, Montreal, QC, H4H 1R3 Canada. The crosstalk between the circadian and immune systems.
09:30-10:00  1.2.2. Regina P Markus. Institute of Bioscience, University of Sao Paulo, Brazil. Melatonin and its Involvement in the Immune System.
10:00-10:30  1.2.3. Jorge Morales-Montor, Departamento de inmunologia, Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México, Mexico. The host-parasite neuro-immuno-endocrine network.
10:30-11:00  1.2.4. Ruud M Buijs, Instituto de Investigaciones Biomédicas UNAM Mexico DF. Our biological clock tunes the immune system.

ROOM LANZAROTE 1, 2
1.3. Neurodegeneration and Epilepsy
Chair: Carlos Beas
09:00-09:24  1.3.1. Antonio Camins, Universidad de Barcelona, Departamento de farmacología y Química Terapéutica, Facultada de Farmacia España. Neurodegeneration mechanisms and cell cycle.
09:24-09:48  1.3.2. Carlos Beas-Zárate, Department of Molecular and Cellular Biology, CUCBA, University of Guadalajara, México. Neurotoxicity and convulsive susceptibility: astrocyte function.
09:48-10:12  1.3.3. Alberto Lazarowski. INFIBIOC-FFyB and IBCN Fac de Medicina (UBA), Argentina. Molecular mechanisms of pharmacoresistant epilepsy.
10:36-11:00  1.3.5. Luisa Rocha, Center for Research and Advanced Studies, Pharmacobiology Dept. México. Therapeutic strategies to hinder neurodegeneration in epilepsy.

ROOM MALLORCA 1, 2, 3
1.4. Voltage-gated ion channels: new insights into structure and function
Chair: Juan Carlos Gómora
09:00-09:24  1.4.1. David Naranjo, Centro Interdisciplinario de Neurociencias /Universidad de Valparaíso, Chile. Shaker K+ channels (K+ conduction and Mg2+ blockade in Shaker Kv-channel single point mutant having an unusually high conductance).
09:24-09:48  1.4.2. Jorge Arreola, Universidad Autónoma de San Luis Potosí, México. Coupling anion permeation to voltage-dependent gating in CIC chloride channels.
Potassium-dependent dynamics of the pore of Kv channels: inactivated and non-conducting non-inactivated states.

Eduardo M. Salinas-Stefanon, Instituto de Fisiología, Univ. Autónoma de Puebla, Mexico. Structure-function relationship in voltage dependent sodium channels.

Juan Carlos Gomora, Depto. de Neuropatología Molecular. División de Neurociencias, Instituto de Fisiología Celular, UNAM. México DF. T-type calcium channels: from structure to function.

ROOM TENERIFE 1, 2, 3
1.5. Symposium offered by the Uruguayan and Italian Societies for Neurosciences
Neuroplasticity and brain adaptation to stressors
Chair: L. Annunziato, University of Naples, Italy

Endogenous neuroprotection against stroke: preconditioning and remote conditioning.

Mechanisms of ethanol dependence in immature and mature organotypic hippocampal slice cultures.


Neuroplasticity in brain disorders: what the visual cortex can teach us.

HALL OF THE CONVENTION CENTER
11:00–13:00 COFFEE AND POSTER SESSION.
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY

ROOM DEL PRADO
13:00-14:00 LECTURE
David Fitzpatrick, Max Planck Florida Institute
Building cortical representations with experience: Insights from visual cortex

ROOM MIRÓ
14:00-16:00 INFORMATIVE SYMPOSIUM
Research in Germany
DAAD, German Service of Academic Exchange
Alexander von Humboldt Foundation
DFG, German Society for Research
MPI, Max Planck Institute

ROOM GOYA
14:00-16:00 BUSINESS MEETING REPRESENTATIVES OF FALAN

18:00-20:00 SYMPOSIA
ROOM PICASSO-MURILLO
1.6. The hippocampus and its involvement in several functions of the body
Chair: Antonio Carlos Roque
18:00-18:40 1.6.1. Martín Cammarota, Laboratory of Behavioral Neurobiology, Biomedical Research Institute-PUCE, Porto Alegre, Brazil. On the role of the hippocampus in object recognition memory.
19:20-20:00 1.6.3. Norberto Garcia-Cairasco, USP-RP. Modeling temporal lobe epilepsy: linking behavioral neurobiology to neuroplasticity in hippocampal circuits.

ROOM GRECO-DALÍ
1.7. Manifesting the Mind
Chair: Sidarta Ribeiro
18:00-18:30 1.7.1. Jordi Riba. Instituto de Investigación Biomédica Sant Pau de Barcelona, Spain. Ayahuasca and the Human Brain.
18:30-19:00 1.7.2. Draulio de Araujo, Instituto do Cérebro, Universidade Federal do Rio Grande do Norte, Brazil. Functional Magnetic Resonance Imaging and Ayahuasca: studies on mental imagery and internal attention.
19:00-19:30 1.7.3. Arturo A. Vitale. PRALIB, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Argentina. In vivo studies of radiolabeled N,N-dimethyltryptamine and tryptamine as markers of the indolic hypermethylation: relationship with human perception alterations in psychiatric pathologies.
19:30-20:00 1.7.4. Eduardo Schenberg, Universidade Federal de São Paulo (UNIFESP), Brazil. Ibogaine in the treatment of drug addiction: an observational study in Brazil.

ROOM LANZAROTE 1, 2
1.8. Memory reactivation and its consequences: reconsolidation, extinction and what else?
Chair: Jorge A. Quillfeldt
19:30-20:00 1.8.4. Jorge A Quillfeldt, Department of Psychology, McGill University, Montreal, Canada. PPG Neurociencias UFRGS, Porto Alegre, RS, Brazil. Periodically reactivated context memory retains its precision and dependence on the hippocampus.

ROOM MALLORCA 1, 2, 3
1.9. Connexins in excitable cells
Chair: Martha Pérez Armendariz
18:24-18:48 1.9.2. Rafael Gutiérrez, Departamento de Farmacobiología, Centro de Investigación y Estudios Avanzados del IPN, México. Mixed electrical-chemical synapse between principal cells in the hippocampus.
19:12-19:36  1.9.4. Juan Carlos Saez, Pontificia Universidad Católica de Chile, Chile. Hemichannels expressed by glial cells as molecular targets to prevent cell degeneration under neuroinflammatory condition.

19:36-20:00  1.9.5. Agustín D. Martínez Carrasco, Centro Interdisciplinario de Neurociencias de Valparaiso, Universidad de Valparaiso, Valparaiso, Chile. Is syndromic deafness a hemicollate disease?

ROOM TENERIFE 1, 2, 3
1.10. Non-pituitary growth hormone: novel roles for an ancestral messenger
Chair: Carlos Arámburo de la Hoz

18:00-18:30  1.10.1 Hugo A. Barrera Saldaña. Departamento de Bioquímica y Medicina Molecular. Facultad de Medicina de la Universidad Autónoma de Nuevo León. México. Growth hormone: News from the past and stories with a future.

18:30-19:00  1.10.2. Maricela Luna Muñoz, Departamento de Biología Celular y Molecular, Instituto de Neurobiología, Universidad Nacional Autónoma de México, México. Extraptuitary growth hormone in immune system.

19:00-19:30  1.10.3. Steve Harvey, Dept. of Physiology, University of Alberta, Edmonton, Canada. Extraptuitary growth hormone in the nervous system.

19:30-20:00  1.10.4. Carlos Arámburo de la Hoz, Departamento de Biología Celular y Molecular, Instituto de Neurobiología, Universidad Nacional Autónoma de México, México. Extraptuitary growth hormone in the reproductive system.

ROOM DEL PRADO
20:00-21:00 LECTURE
Suzana Herculano-Houzel, Instituto de Ciências Biomédicas Univ. Federal do Rio de Janeiro. 86 billion brain neurons: the advantages and costs of the remarkable, but not extraordinary, human brain

21:00 POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY
NOVEMBER 6

9:00–11:00 SYMPOSIA

ROOM PICASSO-MURILLO

2.1. Basal ganglia: beyond movement disorders
Chair: Elvira Galarraga

09:00-09:20 2.1.1. Mario Gustavo Murer. University of Buenos Aires School of Medicine, Department of Physiology and Biophysics, Buenos Aires, Argentina. Circuit mechanisms underlying pathological oscillations in animal models of Parkinson's disease.

09:20-09:40 2.1.2. Fatuel Tecuapetla, Centre for the Unknown, Champalimaud Foundation, Portugal. Investigating the role of striatal subcircuits in the performance of action sequences using optogenetics.

09:40-10:00 2.1.3. Luis Alberto Carrillo-Reid. Northwestern University, Feinberg School of Medicine, Dept. of Physiology, Chicago, USA. Dynamic reconfiguration of neural networks: towards the understanding of compositional properties in biological systems.

10:00-10:20 2.1.4. Víctor de Lafuente. Instituto de Neurobiología, UNAM, México. Not only reward: Dopamine neurons code subjective perceptual experience and uncertainty of decisions.

10:20-10:40 2.1.5. Kuei Y. Tseng. Department of Cellular and Molecular Pharmacology, The Chicago Medical School at Rosalind Franklin University, North Chicago, IL, USA. mGluR modulation of calcium-permeable AMPAR-mediated synaptic plasticity in the nucleus accumbens following prolonged withdrawal from cocaine self-administration.

10:40-11:00 2.1.6. Claudio Da Cuhna Lab. Fisiologia e Farmacologia do SNC, Dept. Farmacologia, Universidade Federal do Paraná (UFPR), Brazil. How striatal dopamine modulates aversively-motivated learning.

ROOM GRECO-DALÍ

2.2. Motivation of reproductive behaviors
Co-Chairs: Annabel Ferreira and Alonso Fernández-Guasti

09:00-09:24 2.2.1. Gabriela González-Mariscal. Centro de Investigación en Reproducción Animal, CINVESTAV-Universidad Autónoma de Tlaxcala, México. Rabbit maternal behavior as a model of a specific hormone-related motivation.


10:12-10:36 2.2.4. Raúl Gerardo Paredes. Instituto de Neurobiología, Universidad Nacional Autónoma de México, México. Hormones and sexual reward.

10:36-11:00 2.2.5. Alonso Fernández-Guasti. Centro de Investigación y Estudios Avanzados, Departamento de Farmacobiología, México. Motivational aspects of sexual satiety in males and females.

ROOM LANZAROTE 1, 2

2.3. Glial cells in neurodegeneration
Chair: Luis Barbeito

2.3.2. Patricia Cassina. Facultad de Medicina, Universidad de la República, Uruguay. Astrocyte-mediated neurotoxicity.

2.3.3. Carina Ferrari. Fundación Instituto Leloir, Argentina. Effect of peripheral inflammation on an inflammatory model of demyelination.

2.3.4. Rommy Von Bernhardi. Dpt. Neurology, School of Medicine, Pontificia Universidad de Chile, Santiago, Chile. Age-dependent changes on the activation of microglia: understanding cytotoxicity in neurodegenerative diseases.

ROOM MALLORCA 1, 2, 3
2.4. Neuroimmunomodulation
Chair: Wilson Savino

2.4.1. Wilson Savino. Fundação Oswaldo Cruz, Brazil. Immunoneuroendocrine imbalance in Chagas Disease


2.4.3. Carmem Gottfried. Universidade Federal do Rio Grande do Sul, Brazil. Autism: a neuroimmune disorder?

2.4.4. Luís Barbeito. Institut Pasteur de Montevideo, Uruguay. Modulation of motor neuron disease by systemic immunization to NGF.

ROOM TENERIFE 1, 2, 3
2.5. Cell damage as a therapeutic target in Epilepsy and Parkinson’s disease
Chair: Rui Daniel S. Prediger

2.5.1. Rodrigo A. Cunha. Center for Neurosciences and Cell Biology, Univ. Coimbra, Portugal and Faculty of Medicine, University of Coimbra, Portugal. Novel adenosine-based therapeutic strategies to manage brain dysfunction and damage upon epilepsy

2.5.2. Roger Walz. Universidade Federal de Santa Catarina, Brazil. Synaptic potentiation and signal transduction in epilepsy: experimental and clinical findings

2.5.3. Francisco Ciruela. Universitat de Barcelona, Spain. Adenosine-dopamine receptor-receptor heteromerization and Parkinson’s disease

2.5.4. Rui Daniel Prediger. Departamento de Farmacología, Universidade Federal de Santa Catarina, Florianópolis, Brazil. Neuroprotective strategies to manage motor and non-motor symptoms in Parkinson’s disease

HALL OF THE CONVENTION CENTER
11:00–13:00 COFFEE AND POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY

ROOM DEL PRADO
13:00-14:00 LECTURE
Sergio Ojeda, Division of Neuroscience, Oregon National Primate Research Center, Oregon Health and Science University
Using systems biology to gain insights into the genetics and epigenetic mechanisms controlling mammalian puberty

ROOM GOYA
14:00-15:00 SPECIAL LECTURE “HELIO GARCIA-AUSST”
18:00–20:00 SYMPOSIA

ROOM PICASSO-MURILLO
2.6. A trip to the senses: TRP channels in sensory transduction
Chair: Rodolfo Madrid
18:00-18:20 2.6.1. Diana Bautista, Department of Molecular & Cell Biology, UC Berkeley, USA. TRPA1 mediates acute and chronic itch.
18:20-18:40 2.6.2. Tamara Rosenbaum, Instituto de Fisiología Celular, UNAM, México. Greasing the gears of channel function: TRPV1 channels and lipids.
18:40-19:00 2.6.3. Karel Talavera. Dept. Of Molecular and Cellular Medicine, KU Leuven, Belgium. TRPV4, a molecular transducer involved in the epithelial barrier function.
19:00-19:20 2.6.4. Diego Restrepo. Department of Cell and Developmental Biology, Rocky Mountain Taste and Smell Center, University of Colorado, USA, The Ca2+-activated TRPM5 channel mediates responses to pheromones in a subset of olfactory sensory neurons.
19:40-20:00 2.6.6. Rodolfo Madrid. Departamento de Biología, Facultad de Química y Biología, Universidad de Santiago de Chile, Chile. The role of TRPM8 and Kv1 potassium channels in painful hypersensitivity to cold in response to axonal damage.

ROOM GRECO-DALÍ
2.7. Strategies to promote CNS health during homeostatic conditions and after neurological disorders
Chair: Michele Schultz Ramos de Andrade
18:00-18:30 2.7.1. Nibaldo C. Inestrosa. Centre for Aging and Regeneration (CARE Faculty of Biological Sciences) Catholic University of Chile, Chile. Wnt signaling and synaptic plasticity in aging.
18:30-19:00 2.7.2. Michele Schultz, Universidade de Sao Paulo, Brazil. Enhancing signaling and functional recovery in the injured spinal cord.
19:00-19:30 2.7.3. Marilise Escobar Burger. Departamento de Fisiología e Farmacología-Universidade Federal de Santa Maria (UFSM), RS Brazil. Fatty acids and physical activity as neuroprotective agents in movement disorders.
19:30-20:00 2.7.4. Fernando Gomez-Pinilla. Dept. Integrative Biology and Physiology, and Neurosurgery, Univ.California Los Angeles, USA. The impact of lifestyle in the CNS: from epigenetic to behavior.

ROOM Lanzarote 1, 2
2.8. Neurotransmitter signaling and electrical activity during neural development
Chair: Eduardo Bouth Sequerra
18:00-18:30 2.8.1. Fernando Garcia de Mello. Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Brazil. Neurochemical activity in the embryonic retina and its possible role in development.
18:30-19:00 2.8.2. Raúl E. Russo. Neurofisiología Celular y Molecular. Instituto de Investigaciones Biológicas Clemente Estable, Uruguay. GABAergic signaling in a stem cell niche of the spinal cord.
19:00-19:30 2.8.3. Paola V. Plazas. Neurobiology Section and Center for Neural Circuits, Division of Biological Sciences, Kavli Institute for Brain and Mind, UC San Diego, USA.
Electrical activity regulates Plexin A3-mediated axon pathfinding in developing zebrafish spinal motor neurons.

19:30-20:00 2.8.4. Eduardo B. Sequerra. Dept. of Physiology and Membrane Biology, University of California Davis, USA. Interference with glutamate signaling induces neural tube defects: Implications to antiepileptic drug action during neural tube formation.

ROOM MALLORCA 1, 2, 3

2.9. Mechanisms for arousal and anticipation of food
Chair: Carolina Escobar
18:00-18:30 2.9.1. Ralph Mistlberger, Simon Fraser University, Canada. Circadian and non-circadian mechanisms of food anticipatory rhythms in nocturnal rodents.
18:30-19:00 2.9.2. Myrte Merkestein. Department of Physiology, Anatomy and Genetics, University of Oxford, United Kingdom. The role of central ghrelin signalling in food anticipatory activity.
19:00-19:30 2.9.3. Fernando Torrealba. Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Chile. Cortico-hypothalamic mechanisms in motivated arousal.
19:30-20:00 2.9.4. Carolina Escobar. Facultad de Medicina, Universidad Nacional Autónoma de México, México. Interacting brain clocks produce arousal and anticipation for food intake.

ROOM DEL PRADO
20:00-21:00 LECTURE
Marcelo Rubinstein INCEBI-CONICET. Buenos Aires, Argentina
Genetic and functional dissection of dopamine D2 receptor in motor and reward-mediated behaviors

21:00 POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY
NOVEMBER 7

9:00–11:00 SYMPOSIA

ROOM PICASSO-MURILLO
3.1. Integrative neurophysiology of high order behaviors
Chair: Hugo Merchant
09:00-09:24 3.1.1. Luis Lemus. Instituto de Fisiología Celular, UNAM, México. Bimodal discrimination.
09:48-10:12 3.1.3. Valentin Dragoi. Dept. of Neurobiology and Anatomy, Univ. of Texas-Houston Medical School, USA. Population coding in laminar cortical circuits.

ROOM GRECO-DALÍ
3.2. Synaptic cotransmission and transmitter segregation
Chair: Miguel A. Morales
09:00-09:30 3.2.1. Laura N. Borodinsky. Dept. Physiology & Membrane Biology, and Shriners Hospital for Children Northern California, U. California Davis School of Medicine. Activity-dependent neurotransmitter specification in the developing spinal cord: Interplay between calcium signaling and morphogenetic proteins.
09:30-10:00 3.2.2. Miguel A. Morales. Deptartment of Physiology & Cell Biology, Biomedical Research Institute, Universidad Nacional Autónoma de México, México. Segregation of transmitters: a plastic synaptic property of neurons.
10:00-10:30 3.2.3. Louis-Eric Trudeau. Université de Montréal, Canada. Functional roles of vesicular glutamate transporters in dopamine neurons.
10:30-11:00 3.2.4. Rafael Gutiérrez. Departamento de Farmacobiología, Centro de Investigación y Estudios Avanzados del IPN, México. Co-release of glutamate and GABA from the mossy fibers.

ROOM LANZAROTE 1, 2
3.3. Psychophysiology and the decline and fall of cold cognition.
Chair: Eliane Volchan
09:00-09:24 3.3.1. Steven Hackley. Dept. of Psychological Sciences, Univ. of Missouri, USA. Introductory remarks to “Psychophysiology”.
09:24-09:48 3.3.2. Steven Hackley. Dept. of Psychological Sciences, Univ. of Missouri, USA. Deficits of anticipatory attention in Parkinson's disease.
09:48-10:12 3.3.3. Yasunori Kotani, Tokyo Institute of Technology, Tokio, Japan. Role of the right anterior insular cortex in anticipatory attention and emotion.
10:12-10:36 3.3.4. Maria Antonieta Bobes-Leon, Centro de Neurociencias de Cuba. Overt and covert processing of emotion from identity in the brain.
10:36-11:00 3.3.5. Eliane Volchan, Instituto de Biofisica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Brazil. Body and brain changes associated with invasion of peripersonnal space in PTSD.
ROOM MALLORCA 1, 2, 3
3.4. Oligodendrocyte biology in development and disease
Chair: Penha C. Barradas
09:00-09:30 3.4.1. Juana M. Pasquini, Dept of Biological Chemistry and IQUIFIB. School of Pharmacy and Biochemistry, University of Buenos Aires-CONICET, Argentina. Galectin 3 drives oligodendroglial cell differentiation.
09:30-10:00 3.4.2. Luciana Nogaroli, Universidade Federal do Rio de Janeiro, Brazil. Is LPA a regulator of oligodendrogenesis?
10:00-10:30 3.4.3. Babette Fuss, Virginia Commonwealth University, USA. Autotaxin: a regulator of oligodendrocyte differentiation and myelination.
10:30-11:00 3.4.4. Penha Cristina Barradas, Depto. Farmacologia e Psicobiologia, IBRAG/UERJ Universidade do Estado do Rio de Janeiro, Brazil. Oligodendroglial loss in a model of systemic perinatal hypoxiaischemia: effects of blockade of NMDA receptors in PDGF-alfa receptor positive cells.

ROOM TENERIFE 1, 2, 3
3.5. Ethics in neuroscience: status and challenges (Symposium IBRO)
Chair: Pedro Maldonado
09:00-09:30 3.5.1. Sarah Pallas, PhD. Georgia State University, USA. The role of ethics in experimental research with animals.
09:30-10:00 3.5.2. Pedro Maldonado, Ph.D. Faculty of Medicine, Universidad de Chile. Bioethics and animal research in Latin America.
10:00-10:30 3.5.3. Joseph T. McCabe, Ph.D. Department of Anatomy, Physiology, and Genetics, Uniformed Services University of the Health Sciences. USA. Neuroethics: an agenda for neuroscience and society.

ROOM GOYA
3.6. Stress along the lifespan. Neurochemical and Behavioral Consequences (IBRO-Alumni Symposium)
Chair: Marta Antonelli (Argentina)
09:30-10:00 3.6.2. Paula Ayako Tiba, Centro de Matemática, Computação e Cognição. Universidade Federal do ABC. Santo André, Brasil. Early life stress and its effects on sleep, behavior and neurochemistry.
10:00-10:30 3.6.3. Marquez, C (1, 2), Cordero, MI (2), Larsen, MH (2), Groner AC (2), Magistretti PJ (2), Trono D (2), and Sandi C (2). (1) Champalimaud Neuroscience Programme, Lisbon, Portugal. (2) Ecole Politechnique Federale de Lausanne. Lausanne, Switzerland. Peripuberty stress leads to abnormal aggression, altered amygdala and orbitofrontal reactivity and increased prefrontal MAOA gene expression in adulthood.
10:30-11:00 3.6.4 Nicole L. Galvão Coelho, Department of Physiology, Universidade Federal do Rio Grande do Norte, Natal- RN, Brazil. Cross-talk of hypothalamic-pituitary-adrenal (HPA) and hypothalamic-pituitary-gonadal (HPG) axis during social stress in common marmosets (Callithrix jacchus).

HALL OF THE CONVENTION CENTER
11:00–13:00 COFFEE AND POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY

ROOM DEL PRADO
13:00-14:00 LECTURE
Alison Fleming, University of Toronto, Canada
Effects of early life experience on the development of the central nervous system: role of maternal care

ROOM GOYA
14:00-15:00 SPECIAL LECTURE “Clemente Estable”
Luis Barbeito, Instituto Pasteur, Montevideo, Uruguay
Pathogenic role of phenotypically aberrant astrocytes in ALS

18:00-20:00 SYMPOSIA

ROOM PICASSO-MURILLO
3.7. Factors regulating neurogenesis and gliogenesis in the cerebral cortex
Chair: Cecilia Hedin Pereira
18:00-18:30  3.7.1. Adan Aguirre. Department of Pharmacological Science, State University of New York, New York, USA. N-cadherin is activated in the adult neural stem cell niche and promotes migration and recruitment of neural progenitor cells after demyelination.
18:30-19:00  3.7.2. Clarissa Schitine. CNC Lab of Brain Repair University of Coimbra Portugal and Institute of Biophysics, Federal University Rio de Janeiro, Brazil. Ampakine CX546 increases neuronal differentiation in postnatal subventricular zone cell cultures.
19:00-19:30  3.7.3. Ivan Velasco. Instituto de Fisiología Celular-Neurociencias, Universidad Nacional Autónoma de México. Activin A promotes neuronal differentiation of cerebrocortical neural progenitor cells.
19:30-20:00  3.7.4. Cecilia Hedin Pereira. Instituto de Biofísica, Universidade Federal do Rio de Janeiro, Brazil. Reelin as a regulator of neurogenesis and gliogenesis in cerebral cortex.

ROOM GRECO-DALÍ
3.8. Aging and neurodegeneration: from molecular aspects to the clinic
Co-Chairs: Daniel Ortúñio-Sahagún and Argelia E. Rojas-Mayorquín
18:25-18:50  3.8.3. Dra. Mercè Pallàs, Department of Pharmacology. Faculty of Pharmacy, University of Barcelona, Spain. Sirtuin 1 modulation: the key or the lock in the ageing-gated neurodegeneration.
19:40-20:00 3.8.6. Rui Daniel Prediger, Departamento de Farmacologia, Universidade Federal de Santa Carina, Florianópolis, Brazil. Brain in movement: physical exercise as a neuroprotective and disease-modifying agent of Parkinson's disease.

ROOM LANZAROTE 1, 2
3.9. Olfactory systems and reproductive behaviors
Chair: Wendy Portillo
18:00-18:30 3.9.1 Rodrigo Suarez. Queensland Brain Institute. The University of Queensland Brisbane, Australia. Neuroecology of the accessory olfactory system of placental mammals.
18:30-19:00 3.9.2 Raúl G. Paredes, Dpto de Neurobiología Conductual y Cognitiva, Instituto de Neurobiología, UNAM. Role of the main and accessory olfactory bulbs in olfactory discrimination and sexual incentive motivation.
19:00-19:30 3.9.3 Ángel I. Melo. Laboratorio de Neuroendocrinología del Desarrollo, Centro de Investigación en Reproducción Animal, CINVESTAV-Lab. Tlaxcala and Universidad Autónoma de Tlaxcala. Chemical communication in rabbits: hormones and reproductive behaviors.
19:30-20:00 3.9.4 Rosalinda Guevara-Guzmán. Fac. de Medicina, UNAM. Which is the role of the olfactory system in sexual behavior?

ROOM MALLORCA 1, 2, 3
3.10. Junior Symposium: Neurobiology of fear memory: maintenance vs. Inhibition
Chair: Lucas de Oliveira Alvares
18:00-18:30 3.10.1. Fabrício do Monte, UPR-MS, Puerto Rico. Midline thalamic nuclei in retrieval and maintenance of fear memory.
18:30-19:00 3.10.2 Fabricio Pamplona. D'Or Institute of Research and Education, Brazil. (Fear) Re-learning through CB1cannabinoid receptors modulation.
19:30-20:00 3.10.4. Lucas de Oliveira Alvares, Universidade Federal do Rio Grande do Sul, Brazil. Memory destabilization: exploring its biological role and clinical potential.

ROOM DEL PRADO
20:00-21:00 LECTURE
Pablo E. Castillo, Dominick P. Purpura, Department of Neuroscience, Albert Einstein College of Medicine, NY.
Endocannabinoid-mediated plasticity: novel mechanisms and synaptic rules

21:00 POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY
NOVEMBER 8
9:00–11:00 SYMPOSIA

ROOM PICASSO-MURILLO
4.1. Mechanisms and physiological relevance of circadian rhythms
Co-Chairs: Raúl Aguilar-Roblero and Mario Caba

09:00-09:30 4.1.1. María Fernanda Ceriani. Laboratorio de Genética del Comportamiento, Fundación Instituto Leloir, IIB-BA CONICET, Buenos Aires, Argentina. Circadian period integrates network information through activation of the BMP signaling pathway.

09:30-10:00 4.1.2. Raúl Aguilar-Roblero. Instituto de Fisiología Celular, UNAM, México. From the nucleus to the membrane: Ca2+ release from RyR signals time in SCN neurons.

10:00-10:30 4.1.3. John Fontenele Araujo. Departamento de Fisiologia - CB – UFRN, Brazil. Understanding the circadian timing system of marmoset by desynchronization model.

10:30-11:00 4.1.4. Mario Caba. Centro de Investigaciones Biomedicas, Universidad Veracruzana. Xalapa, Ver., México. The rabbit pup as a natural model of food anticipatory activity.

ROOM GRECO-DALÍ
4.2. Synapse function: intrinsic and extrinsic modulators
Chair: Flávia Carvalho Alcântara Gomes

09:00-09:40 4.2.1. Vladimir Parpura. Department of Neurobiology, Center for Glial Biology in Medicine, Atomic Force Microscopy and Nanotechnology Laboratories, Civitan International Research Center, Evelyn F. McKnight Brain Institute, University of Alabama, US. Tripartite synapse-astrocytic regulation of glutamate.

09:40-10:20 4.2.2. Cecilia Hidalgo. BNI and ICBM, Facultyn of Medicine, Universidad de Chile, Santiago de Chile. Activation of Ryanodine Receptors/Calcium Release Channels Promotes Growth of Hippocampal Spines.

10:20-11:00 4.2.3. Flávia Carvalho Alcântara Gomes, Federal University of Rio de Janeiro, Brazil. Astrocytes function and dysfunction: implications for synapse formation.

ROOM LANZAROTE 1, 2
4.3. Neural control of cardiorespiratory function
Chair: Fernando Peña

09:00-09:24 4.3.1 Consuelo Morgado. Centro de Investigaciones Cerebrales, Universidad Veracruzana, Mexico. Respiratory rhythm generation: The whole is greater than the sum of the parts.

09:24-09:48 4.3.2. Fernando Peña. Departamento de Neurobiología del Desarrollo y Neurofisiología, Instituto de Neurobiología, UNAM, Mexico. Glial and neuronal contributions to the reconfiguration of the respiratory network in hypoxia.

09:48-10:12 4.3.3. Jaime Eugenín. Universidad de Santiago, Chile. Perturbation of the respiratory rhythm induced by prenatal nicotine exposure.

10:12-10:36 4.3.4. Jan Marino Ramirez. Center for Integrative Brain Research, Seattle Children’s Research Institute, University of Washington, USA. From Ball-and-Stick models to Clouds: new concepts in respiratory rhythm generation.

10:36-11:00 4.3.5. Davi José de Almeida Moares. Dept of Physiology, School of Medicine of Ribeirão Preto, Univ. Sao Paulo, Brazil. Changes in electrophysiological profile of respiratory neurons cause sympathetic overactivity in rats submitted to chronic intermittent hypoxia.
ROOM MALLORCA 1, 2, 3
4.4. Roles of microglia in disease and in normal development
Chair: Flavia Souza Lima
09:00-09:30 4.4.1. Monica J. Carson. University of California, Riverside, USA. Microglial dependent modulation of synaptic maturation during post-natal development.
09:30-10:00 4.4.2. Fernando Pitossi. Fundacion Instituto Leloir, Argentina. Functional role of neuroinflammation on Parkinson’s Disease etiology and progression.
10:00-10:30 4.4.3. João Ricardo Lacerda de Menezes. Lab de Neuroanatomia Celular, Instituto de Ciencias Biomedicas, Centro de Ciencias da Saúde, UFRJ, Brazil. Distinct morphological features of microglia within the developing postnatal subventricular zone/rostral migratory stream.
10:30-11:00 4.4.4. Flavia Regina Souza Lima, Universidade Federal do Rio de Janeiro, Rio do Janeiro, Brazil. Microglia-glioblastoma interaction: tumor proliferation and migration.

ROOM TENERIFE 1, 2, 3
4.5. Junior symposium: Artificial intelligence in the creation of intelligent systems for the diagnostics and pronostics of chronic and neurodegenerative diseases
Chair: Daniel Paredes
09:00-09:40 4.5.1. Alberto Hananel Baigorria, UGR-USAT, Peru. Application of Neural Networks Models and Meshes of multivariate approach in Artificial Intelligence in the Diagnosis and Prognosis of Degenerative Diseases.
10:20-11:00 4.5.3. Daniel Angel Paredes, Universidad Peruana Cayetano Heredia, Perú. Development of intelligent systems for the diagnosis and prognosis of neuropsychiatric disorders and degenerative diseases.

HALL OF THE CONVENTION CENTER
11:00–13:00 COFFEE AND POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY

ROOM DEL PRADO
13:00-14:00 LECTURE
Fernanda Ceriani, Fundación Instituto Leloir, Buenos Aires, Argentina
Circadian control of locomotor output: from structure to behavior

ROOM DEL PRADO
16:00-18:00 BUSINESS MEETING SOCIEDAD MEXICANA DE CIENCIAS FISIOLOGICAS

18:00–20:00 SYMPOSIA

ROOM PICASSO-MURILLO
4.6. Advances in peptide research
Chair: Luis Aguilar
18:00-18:24 4.6.1. Rafael Coveñas, Instituto de Neurociencias de Castilla y León, España. The peptidergic systems: basic and clinical aspects.
19:36-20:00 4.6.5. Luis Lerma, Universidad Peruana Cayetano Heredia, Perú. Structure and physiology of neuropeptides. What do we agree on?

ROOM GRECO-DALÍ
4.7. Neuronal-glial communication in the CNS: transporters
Chair: Ricardo AM Reis
18:00-18:30 4.7.1 Angelina Rodriguez. Facultad de Química, Universidad Autónoma de Querétaro, México. Signaling through glutamate transporters in Bergmann glia cells.
18:30-19:00 4.7.2 Karin da Costa Calaza. Dept Neurobiologia, Universidade Federal Fluminense, Brazil. Role of GABA transporters in the chick retina.
19:00-19:30 4.7.3. Arturo Ortega. Dept de Genética y Biología Molecular, Cinvestav-IPN, México. Ontogeny of glial glutamine transporters.
19:30-20:00 4.7.4. Clarissa S Schitine. Inst Biofisica, Universidade Federal do Rio de Janeiro, Brazil. Regulation of the GAT3 gabaergic transporter in avian Muller glia cells.

ROOM LANZAROTE 1, 2
4.8. Hormones and stress modulation of hippocampal function
Chair: Limei Zhang
18:00-18:30 4.8.1. Rafael Luján. Dpt Ciencias Medicas, Facultad de Medicina, Universidad de Castilla-La Mancha, Spain. Structural and functional properties of hippocampus.
18:30-19:00 4.8.2. Zhenzhong Cui. Section on Neuroal Gene Expression, National Institute of Mental Health, Bethesda, USA. Neuronal Connections of the Dorsal CA2 Area of the Mouse Hippocampus
19:00-19:30 4.8.3. Luz Torner. Centro de Investigaciones Biomédicas de Michoacán, Instituto Mexicano del Seguro Social, Morelia, Mexico. Maternal separation and hippocampal neurogenesis at an early age: correlation with behavioral and neuroendocrine disturbances in adulthood.
19:30-20:00 4.8.4. Limei Zhang. Departamento de Fisiología, Facultad de Medicina, Universidad Autónoma de México. Synaptic innervation to rat hippocampus by vasopressin-immunopositive fibers from the hypothalamic supraoptic and paraventricular nuclei.

ROOM MALLORCA 1, 2, 3
4.9. Neural basis of attentional processes
Chair: Mitchell Valdes-Sosa
18:00-18:30 4.9.1. Steven Hillyard. Department of Neurosciences, University of California, San Diego USA. Tracking allocations of visual attention with Steady-State Visual Evoked Potentials.

ROOM DEL PRADO
20:00-21:00 LECTURE
21:00 POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY THE WHOLE DAY
NOVEMBER 9

9:00–11:00 SYMPOSIA

ROOM PICASSO-MURILLO
5.1. Multidisciplinary approach of neurodegenerative diseases
Chair: Luiz Roberto G. Britto
09:00-09:24  5.1.1. Luiz Roberto G. Britto, USP, Brazil. Neurodegeneration and neuroprotection: lessons from animal models.
09:48-10:12  5.1.3. Caroline Cristiano Real. USP, Brazil. Exercise and neuroprotection in Parkinson's disease.
10:36-11:00  5.1.5. Ana Francisca Barros Ferreira, USP, Brazil. Mechanisms of cell death in Alzheimer's disease.

ROOM GRECO-DALÍ
5.2. New developments in schizophrenia research
Chair: Elisa C. Dias
09:00-09:30  5.2.1. Elisa C. Dias. Nathan Kline Institute for Psychiatric Research, Orangeburg, New York, USA. Sensory processing deficits in schizophrenia.
09:30-10:00  5.2.2. John F. Smiley. Nathan Kline Institute for Psychiatric Research, Orangeburg, New York, USA. Cell selective changes in schizophrenia cerebral cortex.
10:00-10:30  5.2.3. Stevens Rehen. Laboratório Nacional de Células-Tronco Embrionárias, Instituto de Ciências Biomédicas, UFRJ, Brazil. Elevated production of reactive oxygen species during neurogenesis of induced pluripotent stem cells derived from a schizophrenic patient.
10:30-11:00  5.2.4. Pablo A. Gaspar. Clinical Hospital of the University of Chile. Contributions of Functional Neuroimaging to understand the motion-processing deficits in schizophrenia.

ROOM LANZAROTE 1, 2
5.3. Role of reactive oxygen species in the physiology and pathophysiology of the CNS
Chair: Marco Tulio Núñez
09:00-09:30  5.3.1. Cecilia Hidalgo, BNI, CEMC and ICBM, Facultad de Medicina, Universidad de Chile. Role of redox sensitive RyR-mediated calcium release in synaptic plasticity.
09:30-10:00  5.3.2. Andrea C. Paula-Lima, Faculty of Dentistry, Universidad de Chile, Santiago Chile Calcium and ROS in Alzheimer’s disease.
10:00-10:30  5.3.3. Joana C. D’avila, Oswaldo Cruz Foundation (FIOCRUZ), Rio de Janeiro, Brazil. Oxidative stress and bioenergetic imbalance in the pathophysiology of septic encephalopathy.
10:30-11:00  5.3.4. Marco Tulio Núñez, Facultad de Ciencias, Universidad de Chile; Research Ring on Oxidative Stress in the Nervous System, Santiago, Chile. In vivo and in vitro reversion of midbrain dopaminergic neurons degeneration by iron chelators.

ROOM MALLORCA 1, 2, 3
5.4. Reproduction and sexual function: role of stress and different contexts
Chair: Monica Levy Andersen
09:00-09:30 5.4.1. Jorge Manzo. Centro de Investigaciones Cerebrales, Universidad Veracruzana, México. Cerebellum and sexual behavior: What's the relationship?

09:30-10:00 5.4.2. Monica L. Andersen. Dept Psicobiologia, Universidade Federal de Sao Paulo, Brazil. Can sleep loss affect sexual behavior?

10:00-10:30 5.4.3. Tathiana Alvarenga. Universidade Federal de Sao Paulo, Brazil. Sexual experience may modulate the sexual response.

10:30-11:00 5.4.4. Janete Anselmo-Franci. Faculdade de Odontologia de Ribeirão Preto, Universidade de São Paulo. The effect of stress on female reproduction is always the same in different contexts?

HALL OF THE CONVENTION CENTER
11:00–13:00 COFFEE AND POSTER SESSION
NOTE: THE POSTERS ASSIGNED FOR THE DAY WILL BE LEFT ON DISPLAY UNTIL 15:00

ROOM DEL PRADO
13:00-15:00 DISCUSSION FORUM NEUROSCIENCES IN LATINAMERICA: Neuroscience in Latinamerica: where are we? Where should we go?

Co-Chairs: Consuelo Morgado-Valle and Gabriela González-Mariscal, President of SMCF.
Carlos Belmonte, President of the International Brain Research Organization.
Ranulfo Romo, Instituto de Fisiología Celular. UNAM
Gregory Quirk, School of Medicine, University of Puerto Rico
Rommy Von Bernhard Montgomery, President of the FALAN.
Carlos Beyer, Centro de Investigación en Reproducción Animal, CINVESTAV-Universidad Autónoma de Tlaxcala, México.

ROOM DEL PRADO
20:00-24:00 CLOSING CEREMONY AND DINNER