

I CONGRESSO IBRO/LARC DE  
NEUROCIÊNCIAS  
DA AMÉRICA LATINA, CARIBE  
E PENÍNSULA IBÉRICA

I CONGRESO IBRO/LARC DE  
NEUROCIENCIAS  
DE AMERICA LATINA, CARIBE  
Y PENÍNSULA IBÉRICA

I IBRO/LARC CONGRESS OF  
NEUROSCIENCES  
OF LATIN AMERICA THE CARIBBEAN  
AND IBERIAN PENINSULA

XXXII CONGRESSO DA SOCIEDADE BRASILEIRA DE NEUROCIÊNCIAS E COMPORTAMENTO (SBNeC)

XXIII CONGRESO DE LA SOCIEDAD ARGENTINA DE INVESTIGACIÓN EN NEUROCIENCIAS (SAN)

IV REUNIÓN ANUAL DE LA SOCIEDAD CHILENA DE NEUROCIENCIA (SCN)

IX CONGRESO DE LA SOCIEDAD DE NEUROCIENCIA DEL URUGUAY (SNU)

**September 1st, 2008**

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**I Congresso IBRO/LARC de Neurociências da América Latina, Caribe e Península Ibérica**

**I Congreso IBRO/LARC de Neurociencias de America Latina, Caribe y Península Ibérica**

**I IBRO/LARC Congress of Neurosciences of Latin America, the Caribbean and Iberian Peninsula**

**17h30 - 19h30**

**Poster Session**

**19h30 - 21h00**

**Room: Atlântico (*H. Atlântico*)**

**Opening Ceremony**

**Opening Conference**

*Sensing cold as pain: mechanisms for innocuous and noxious cold detection*

Speaker: Carlos Belmonte (Universidad Miguel Hernandez - Consejo Superior de Investigaciones, IBRO President – Spain)

Introduced by:

Albert J. Aguayo (McGill University, IBRO past-President – Canadá)

**21h00 - 22h30**

**Look for your Social Event**

08h00 – 09h00 - **Tutorials (Minicursos)**

**Room: Pérola (H. Pérola)**

T01- Bases celulares e moleculares da neuroimunomodulação

Chair: Wilson Savino (Instituto Oswaldo Cruz - Brasil)

*Sintaxe comum na comunicação existente em eixos imunoneuroendócrinos*

Wilson Savino (Instituto Oswaldo Cruz - Brasil)

**Room: Don Quijote (H. D. Quijote)**

T02- Modelos animais em neurociências

Chair: Carlos Alexandre Netto (UFRGS – Brasil)

*Modelos animais para o estudo de lesões no sistema nervoso*

Carlos Alexandre Netto (UFRGS – Brasil)

**Room: Caravelas (H. Atlântico)**

TO3- Espectroscopia de ressonância magnética para determinação das variações de neurotransmissores

Chairs:

Rosane Gomez (Centro Universitário Metodista – Brasil)

Graeme Mason (Yale University – USA)

*Emprego da espectroscopia de ressonância magnética nuclear para determinação do GABA, glutamato e outros metabólitos no sistema nervoso central*  
Graeme Mason (Yale University - USA)

**Room: Tartaruga (H. Atlântico)**

T04- Introdução à modelagem do comportamento animal por redes neurais

Chair: Antônio Carlos Roque da Silva Filho (USP-RP – Brasil)

*Introdução às redes neurais*

Antônio Carlos Roque da Silva Filho (USP-RP – Brasil)

**Room: Ferradura (H. Atlântico)**

T05- EEG Functional Analysis

Chair: Koichi Sameshima (USP – Brasil)

*Connectivity inference and information theoretic concepts*

Daniel Yasumasa Takahashi (USP – Brasil)

**Room: Foca (H. Atlântico)**

T06- Sueño y audición

Chair: Luis Angel Aguilar Mendoza (Universidad Peruana Cayetano Heredia – Peru)

*El Sueño y los Sistemas Sensoriales*  
Ricardo Velluti (Universidad de la Republica Ministerio de Educación y Cultura - Uruguay)

*Parasomnias y Epilepsias Nocturnas. Diagnóstico Diferencial.*

Dra. Marissa Pedemonte

**Room: Geribá (H. Atlântico)**

T07- Citometria de flujo aplicado al sistema nervioso  
Chair: Beatriz Almolda Ardid (Autonomous University of Barcelona, Espanã)

**Room: Brava (H. Atlântico)**

T08- Eye-trackers and psychophysical applications  
Chair: Edgard Morya (AASDAP, Sírio-Libanês Hospital – Brasil)

*Eye-tracker applications*

Edgard Morya (Sírio-Libanês Hospital - Brasil)

**Room: Tucuns (H. Atlântico)**

T09- Bases neurobiológicas de la adicción a drogas  
Chair: José Antonio Fuentealba (Pontificia Universidad Católica – Chile)

*Introducción. Circuito de la recompensa*

Maria Inés Forray (Pontificia Universidad Católica - Chile)

*Modelos conductuales de adicción*

José Antonio Fuentealba (Pontificia Universidad Católica - Chile)

**Room: João Fernandes (H. Atlântico)**

T10- Neurociência anatômica: o caso do núcleo de Edinger-Westphal  
Chair: Cláudio Antônio Barbosa de Toledo (UNICID – Brasil)

*Morfologia neuroquímica como ferramenta de estudos anatômicos.*

Cláudio Antônio Barbosa de Toledo (UNICID – Brasil)

09h00 - 11h00

**Poster Session**

09h00 - 11h00

**Room: Caravelas (H. Atlântico)**

**Business Meeting**

Funding Opportunities in Neuroscience Research for latin-american and caribbean Countries

11h00 - 13h00 - **Symposia**

**Room: Geribá (H. Atlântico)**

SP01 - THE PSYCHOPHYSIOLOGY OF ATTENTION AND EMOTION

Chair: Steven A. Hackley (University of Missouri, USA)

*The Psychophysiological Correlates of Reward Anticipation*

Steven A. Hackley (University of Missouri, USA)

*How emotion shapes behavior: an fMRI study of performance modulation induced by mutilation pictures*

Mirtes Garcia Pereira (UFF, Brasil)

*Distinct pathways for conscious and unconscious recognition*

Mitchell Valdés-Sosa (Centro de Neurociencias de Cuba)

*Regulation of Brain States*

Niels Birbaumer (University of Tübingen, Germany)

**Room: Brava (H. Atlântico)**

SP02 - IBRO ALUMNI SYMPOSIUM

Chairs:

Alejandro Munera (Colégio Colombiano de Neurociência)

Ana Silva (Instituto de Investigaciones Biológicas Clemente Estable, Uruguay)

Verónica Palma (Universidad de Chile)

Cecilia Hedin Pereira (UFRJ, Brasil)

*Selectivity for stimulus duration in the inferior colliculus of three species of bats with different echolocation behaviours: biodiversity as a useful neuroethological tool in Latin America*

Emanuel Mora (Universidad de la Habana, Cuba)

*Electrophysiological specializations of primary auditory afferents to the Mauthner cell*

Sebastián Curti (Universidad de la República, Uruguay)

*Role of Cellular Prion Protein (PrPc) in cognitive function: from early development to aging*

Rui Daniel S. Prediger (UFSC, Brasil)

*Ca<sup>2+</sup>/calmodulin kinase II (CaMKII) in the maintenance of synaptic memory*

Magdalena Sanhueza (Universidad de Chile)

*NF-kappaB in memory consolidation and neural plasticity, a comparative approach*

Ramiro Freudenthal (UBA, Argentina)

**Room: Don Quijote (H. D. Quijote)**

SP03- GLUTAMATERGIC SYSTEM: DIFFERENT VIEWS IN PATOLOGICAL AND PLASTIC MECHANISMS.

Chair: Jaine Martins Ferreira (New York University, USA)

*Function of glutamate receptors in plasticity and disease.*

Edward Ziff (New York University, USA)

*Impact of hyperglycemia on AMPA receptors in the retina*

Francisco Ambrósio (University of Coimbra, Portugal)

*Glutamate uptake as neuroprotective strategy in models of brain injury*

Susana Tchernin Wofchuk (UFRGS, Brasil)

*Glutamate receptors scaffold proteins*

*interact with delta-catenin and blocks dendritic changes in dendritic morphology*

Jaine Martins Ferreira (New York University, USA)

**Room: Pérola (H. Pérola)**

SP04- NEUROGENESIS AND CELLULAR BRAIN REPAIR WITH NEURAL PROGENITORS AND STEM CELLS

Chair: Veronica Palma (Universidad de Chile)

*Sonic Hedgehog-Gli Signaling Regulates Embryonic Neurogenesis in the dorsal brain*

Verónica Palma (Universidad de Chile)

*Long term persistence of radial glia in the subventricular zone of cerebral cortex*

João R. L. Menezes (UFRJ, Brasil)

*Pre-natal inflammation affects adult neurogenesis*

Fernando Pitossi (Fundación Instituto Leloir, Argentina)

*Control of neural differentiation and apoptosis by lipids signaling and flavonoids in embryonic stem cells*

Stevens Rehen (UFRJ, Brasil)

**Room: Abalone (H. Pérola)**

SP05- IN VITRO APPROACHES TO STUDY THE NEURAL CONTROL OF CARDIORESPIRATORY ACTIVITIES

Chair: Jaime Eugénin (USACH, Chile)

*Intrinsic and synaptic properties underlying gasping generation*

Fernando Peña (Cinvestav-Sede Sur, Mexico)

*Neuromodulators inspire pacemakers from the inside out*

Andrew Tryba (Medical College of Wisconsin, USA)

*Respiratory rhythm dysfunction induced by perinatal nicotine*

Jaime Eugenin (Universidad de Santiago de Chile)

*Evaluation of the respiratory and sympathetic changes after chronic intermittent hypoxia in rats using the working heart-brainstem preparation*

Benedito Machado (FMRP-USP, Brasil)

**Room: Caravelas (H. Atlántico)**

SP06- ROLE OF GLIAL AND NEURONAL CONNEXINS IN NORMAL AND PATHOLOGICAL SITUATIONS

Chair: Juan C Sáez (Universidad Católica de Chile)

*Connexin channels as a basis of neuroglial communication during early development*  
Maira Froes (UFRJ, Brasil)

*Glial networks and the role astrocytic connexins in neuroglial interaction*

Christian Giaume (Collège de France)

*Neuronal connexins and plasticity of electrical synapses*

Alberto Pereda (Albert Einstein College of Medicine, USA)

*Connexin hemichannels in normal and pathological situations*

Juan C. Sáez (Universidad Católica de Chile)

**Room: Ferradura (H. Atlántico)**

SP07- ASPECTOS MOTIVACIONALES IMPLICADOS EN LOS VÍNCULOS AFILIATIVOS

Chair: Annabel Ferreira (Universidad de la República, Uruguay)

*Motivación sexual: análisis en el paradigma de saciedad*

Alonso Fernández-Guasti (CINVESTAV, México)

*Determinantes infantiles del comportamiento adulto*

Aldo Lucion (UFRGS, Brasil)

*Neurotransmisión dopaminérgica y glutamatérgica en ratas adultas estresadas prenatalmente*

Marta Antonelli (IQUIFIB, Argentina)

*Qué prefieren las madres sexualmente receptivas: al macho o a las crías?*

Annabel Ferreira Castro (Facultad de Ciencias, Uruguay)

*Funcionalidad CEREBRAL durante el procesamiento sensorial incentivo en la motivación sexual y maternal*

Marisela Hernández González (Universidad de Guadalajara, México)

**Room: Tucuns (H. Atlántico)**

SP08- BREAKING DOGMAS IN NEUROSCIENCE

Chair: Roberto Lent (UFRJ, Brasil)

*How many neurons do we have? Breaking dogmas in quantitative neuroscience*

Roberto Lent (UFRJ, Brasil)

*Axonal regeneration in CNS?*

Albert J. Aguayo (McGill University, Canada)

*New neurons in old brains – are they all the same?*

Alysson R. Muotri (UCSD, USA)

*Beyond amyloid and tau: toward a unified hypothesis on alzheimer's disease*

Ricardo B. Maccioni (Universidad de Chile)

**Room: Foca (H. Atlántico)**

SP09- MOLECULAR MECHANISMS INVOLVED IN RETINAL REGENERATION AND DIFFERENTIATION

Chairs:

Luis Politi (INIBIBBy Universidad Nacional del Sur, Argentina)

Cristina Arruti, Universidad de la República, Uruguay)

*Molecular interactions in the cell cortex of retinal neuroblasts during differentiation*

Cristina Arruti (Universidad de la República, Uruguay)

*Involvement of Müller glial cells in photoreceptor replacement*

Luis Politi (Universidad Nacional del Sur, Argentina)

*Activation of the neurokine receptor gp130 regulates both neuronal sensitivity to cell death and functional differentiation*

John D. Ash (University of Oklahoma, USA)

*Regulation of neuronal cell death by the transcription factor Max*  
Rafael Linden (UFRJ, Brasil)

**Room: Mares do Sul (H. Pérola)**  
SP10- EXTRINSIC AND INTRINSIC REGULATION OF OLIGODENDROCYTE PRECURSOR CELLS DIFFERENTIATION  
Chairs: Juana M. Pasquini  
Patrizia Casaccia-Bonofil (Mount Sinai School of Medicine, USA)

*Intrinsic Regulators of Remyelination Efficiency*  
Patrizia Casaccia- Bonofil (Mount Sinai School of Medicine, USA)

*Role of LINGO-1 in Oligodendrocyte Differentiation and Myelination*  
Robert Miller (Case Western Reserve University, USA)

*Multiple signaling pathways sustain the critical function of IGF-1 in oligodendrocyte progenitor survival*  
Guillermina Almazan (McGill University, Canada)

*OPC Migration and Differentiation Regulated by Netrin-1*  
Tim Kennedy (McGill University, Canadá)

*Efecto de la Transferrina y la Diferenciación Oligodendroglial*  
Juana M. Paquini (UBA, Argentina)

13h00 - 14h30  
Lunch break

14h30 - 15h30 - **Conferences**

**Room: Pérola (H. Pérola)**  
**C 01- Sociedad Chilena de Neurociencia**  
*Calcium signals, Iron and ROS in synaptic plasticity*  
Cecilia Hidalgo (Universidad de Chile)

**Room: Ferradura (H. Atlântico)**  
**C 02- Conferência Olympus**  
*Regulation of membrane protein trafficking during neuronal polarization*  
Alfredo Caceres (INIMEC-CONICET – Argentina)

**Room: Tucuns (H. Atlântico)**  
**C 03 - Sociedade Brasileira de Neurociências e Comportamento**

*Human emotion: for good and for bad*  
Eliane Volchan (UFRJ, LARC-IBRO committee member – Brasil)

**Room: Caravelas (H. Atlântico)**  
**C 04 - Sociedad de Neurociencias del Uruguay - Conferencia Elio García-Austt**

*Faciliatación sináptica persistente mediada por receptores de IP3: una forma distinta de plasticidad sináptica*  
Washington Buño (Instituto Cajal, Consejo Superior de Investigaciones Científicas – España)

**Room: Don Quijote (H. D. Quijote)**  
**C 05 - SAN- Conference Ranwell Caputto**  
*Variaciones sobre la memoria: desde el cangrejo al hombre*  
Hector Maldonado (Universidad de Buenos Aires – Argentina)

15h30 - 17h30  
**Poster Session**

15h30 - 17h30  
**Room: Caravelas (H. Atlântico)**  
**Business Meeting**  
Funding Opportunities in Neuroscience Research for latin-american and caribbean Countries

16h30 - 17h00  
**Room: Foca (H. Atlântico)**  
**Business Meeting**  
Science and Art

17h30 - 19h30 - **Symposia**

**Room: Abalone (H. Pérola)**  
SP11- Neurobiology of Retinal Diseases  
Chairs: Miguel Castelo-Branco (Universidade de Coimbra, Portugal)  
António Francisco Ambrósio (Universidade de Coimbra, Portugal)

*What can we learn from animal models in glaucoma?*  
Elena Vecino (University of the Basque Country, España)

*A novel retinal phenotype in Williams-Beuren syndrome challenges magnocellular theories explaining human neurodevelopmental visual cortical disorders*  
Miguel Castelo-Branco (Universidade de Coimbra, Portugal)



**September 2nd, 2008**

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*Genotype-Phenotype correlations in retinal disorders*

Dora Ventura (USP, Brasil)

*Parallel pathways in the primate retina: implications for models of retinal disease*

Luíz C. Silveira (UFPA, Brasil)

**Room: Caravelas (H. Atlântico)**

SP12- NEUROIMUNOMODULAÇÃO

Chair: Wilson Savino (FIOCRUZ, Brasil)

*Semaphorins at the cross road of nervous and immune systems*

Wilson Savino (FIOCRUZ, Brasil)

*Specificity in Neuro-immune- endocrine signaling*

Eduardo Arzt (UBA, Argentina)

*O papel do sistema nervoso autônomo na neuroimunomodulação da miocardite chagásica aguda*

Valdo José Dias da Silva (UFTM, Brasil)

**Room: Brava (H. Atlântico)**

SP13- THE PERIAQUEDUCTAL GRAY (PAG): MORPHOLOGICAL, NEUROCHEMICAL AND FUNCTIONAL ASPECTS.

Chair: San Regina Mota-Ortiz ( USP, Brasil)

*The chemical architecture of the rat's periaqueductal gray*

Francisco Olucha-Bordonau (University of Valencia, Spain)

*The role of PAG in switching behavioral*

Marcia Harumi Sukikara (USP, Brasil)

*The role of rostral lateral PAG in the control of foraging behavior*

San Regina Mota-Ortiz (USP, Brasil)

*Oestrous cycle-related changes in GABAergic function in the periaqueductal grey matter*

Thelma A. Lovick (University of Birmingham, UK)

**Room: João Fernandes (H. Atlântico)**

SP14- EL CEREBRO EN ACCIÓN: MEMORIA, PERCEPCIÓN Y MOVIMIENTO

Chair: Javier Cudeiro (Universidad de A Coruña, España)

*Interacción cortico-talámica y percepción visual*

Javier Cudeiro (Universidad de A Coruña, España)

*Mecanismos involucrados en la persistencia de memorias*

Martín Cammarota (PUCRS, Brasil)

*Actividad en el circuito hipocámpico durante el aprendizaje asociativo*

Agnès Gruart (Universidad Pablo de Olavide, España)

*Cambios en la actividad de la corteza motora primaria relacionados con la generación de respuestas condicionadas de protracción de las vibras en ratones*

Julieta Troncoso (Universidad Nacional de Colombia)

**Room: Pérola (H. Pérola)**

SP15- MECANISMOS DE NEUROPROTECCIÓN EN EL SNC

Chair: Enrike G. Argandoña (Universidad del Pais Vasco, España)

*Efectos de la administración intracerebral de factores tróficos en el desarrollo cortical*  
José Vicente Lafuente (Universidad del Pais Vasco, España)

*Efectos neuroprotectores del enriquecimiento ambiental en traumatismos craneoencefálicos en cerebro en desarrollo*  
Enrike G. Argandoña (Universidad del Pais Vasco, España)

*Efecto neuroprotector de los neuroesteroides derivados de progesterona en patología neurológica*  
Sergio Mora (Universidad de Chile)

*Neuroprotección en la Esquizofrenia*

Pascual Gargiulo (Universidad Nacional de Cuyo, Argentina)

**Room: Mares do Sul (H. Pérola)**

SP16- FISH AS EMERGING MODELS IN BEHAVIORAL NEUROSCIENCE RESEARCH

Chairs: Amauri Gouveia Jr. (UFPA, Brasil)  
Rui F. Oliveira (Instituto Superior de Psicologia Aplicada, Portugal)

*Fish as models in behavioral neurosciences: use of fish in traditional rodent models*

Amauri Gouveia Junior (UFPA, Brasil)

*To Know the Mind of a Fish: Attention and Motivation in Electric Fish*

Christopher B. Braun (CUNY, USA)

*Fish and cognition: Brain anatomy and homology in fish memory models*

Cristina Broglio (Universidad Sevilla, España)

*Swimming in Vygotsky's pool: chlid fish as models to study the social construction of brain and behaviour*

Rui F. Oliveira (Instituto Superior de Psicologia Aplicada, Portugal)

**Room: Don Quijote (H. D. Quijote)**

SP17- MEMORIA Y PLASTICIDAD

Chairs: Diana Jerusalinsky (UBA, Argentina)  
Jorge Quillfeldt (UFRGS, Brasil)

*Viviendo en el pasado: papel del cerebelo en el aprendizaje motor*

José Maria Delgado García (Universidad Pablo de Olavide, España)

*Papel separado del hipocampo y la amígdala en la consolidación*

Iván Antonio Izquierdo (PUCRS, Brasil)

*Persistir o no persistir? esa es la cuestion*

Jorge Horacio Medina (UBA, Argentina)

**Room: Ferradura (H. Atlântico)**

SP18- NEW TRENDS IN THE DEVELOPMENT OF THE NERVOUS SYSTEM

Chair: Luiz Roberto G. Britto (USP, Brasil)

*Neurotransmitters and neural development*  
Luiz Roberto G. Britto (USP, Brasil)

*Gene-marker analysis of the developing avian pallium: components and boundaries*  
Luis Puelles (University of Murcia, Spain)

*Connexins and retinal development*

Alexandre H. Kihara (USP, Brasil)

*Control of the cell cycle in retinal progenitor neurons*

Rafael Linden (UFRJ, Brasil)

**Room: Foca (H. Atlântico)**

SP19- NEUROSCIENCES: FROM THE CONVERGING TECHNOLOGIES TO THE NEUROINDUSTRIES

Chair: Esper Cavalheiro (UNIFESP, Brasil)

*Converging Technologies: where we are?*  
Esper Cavalheiro (UNIFESP, Brasil)

*Some micro- and nano-technologies contributions to neurosciences*

Jordi Aguilo (Universidad Autónoma de Barcelona, España)

*Neurosciences and the Prometheus myth*  
Roberto Lent (UFRJ, Brasil)

*Governance, Experience and Dialogue: Social Dimensions at the Interface of Converging Technologies and Neurosciences*

Jacquelyne Luce (Zeppelin University, Germany)

**Room: Tucuns (H. Atlântico)**

SP20- SEX, DRUGS, LOVE AND VIOLENCE: THE NEUROBIOLOGY OF THE EMOTIONAL BRAIN

Chair: Rosa Maria Martins de Almeida (UNISINOS, Brasil)

*Sex differences in anxiety and depression*  
Alonso Fernández-Guasti (IPN, México)

*Social stress, cocaine taking and BDNF*  
Klaus A. Miczek (Tufts University, USA)

*Molecular Neurobiology of Social Bonding*  
Larry J. Young (Emory University, USA)

*Escalated aggression, serotonin receptors and pre-frontal cortex*  
Rosa Maria Martins de Almeida (Unisinos, Brasil)

19h30 - 21h00

**Room: Caravelas (H. Atlântico)**

SBNeC meeting



08h00 – 09h00 - **Tutorials (Minicursos)**

**Room: Pérola (H. Pérola)**

T01- Bases celulares e moleculares da neuroimunomodulação

Chair: Wilson Savino (Instituto Oswaldo Cruz - Brasil)

*Controle da resposta imune por neurotransmissores, neuropeptídeos e hormônios*

Wilson Savino e Ana Rosa Perez

**Room: Don Quijote (H. D. Quiote)**

T02- Modelos animais em neurociências

Chair: Carlos Alexandre Netto (UFRGS – Brasil)

*Modelos animais para o estudo da nocicepção*

Ionara Rodrigues Siqueira (UFRGS – Brasil)

**Room: Caravelas (H. Atlântico)**

T03- Espectroscopia de ressonância magnética para determinação das variações de neurotransmissores

Chairs:

Rosane Gomez (Centro Universitário Metodista – Brasil)

Graeme Mason (Yale University – USA)

*Variações do GABA e glutamato no córtex occipital de pacientes não alcoolistas durante infusão contínua de etanol*

Graeme Mason (Yale University - USA)

**Room: Tartaruga (H. Atlântico)**

T04- Introdução à modelagem do comportamento animal por redes neurais

Chair: Antônio Carlos Roque da Silva Filho (USP-RP – Brasil)

*Introdução à modelagem de paradigmas de condicionamento clássico por redes neurais*  
Janaína Freitas de Carvalho Pinto (USP - Brasil)

**Room: Ferradura (H. Atlântico)**

T05- EEG Functional Analysis

Chair: Koichi Sameshima (USP – Brasil)

*Exploratory strategies for overcoming multidimensional curse in brain connectivity analysis*

Luiz Henrique Lana (USP – Brasil)

**Room: Foca (H. Atlântico)**

T06- Sueño y audición

Chair: Luis Angel Aguilar Mendoza (Universidad Peruana Cayetano Heredia – Peru)

*Ritmo Theta como organizador temporal de descargas sensoriales*

Marissa Pedemonte (Instituto Universitario CLAEH - Uruguay)

*Sueño y memoria*

Alejandro Munera (Universidad Nacional de Colombia)

**Room: Geribá (H. Atlântico)**

T07- Citometria de fluxo aplicado al sistema nervioso

Chair: Berta González de Mingo (Universidad Autónoma de Barcelona, España)

**Room: Brava (H. Atlântico)**

T08- Eye-trackers and psychophysical applications

Chair: Edgard Morya (AASDAP, Sírio-Libanês Hospital – Brasil)

*Eye-tracker investigation of the link between attention and action*

Ronald Ranvaud (USP - Brasil)

**Room: Tucuns (H. Atlântico)**

T09- Bases neurobiológicas de la adicción a drogas

Chair: José Antonio Fuentealba (Pontificia Universidad Católica – Chile)

*Estudio neurobiológico pre-clínico de la acción de la pasta base de cocaína en el sistema nervioso central*

Cecilia Scorza (Instituto Clemente Estable - Uruguay)

*Modulación por estrógenos de la sensibilización a cocaína en ratas hembras*  
Anabell Segarra (Universidad de Puerto Rico)

**Room: João Fernandes (H. Atlântico)**

T10- Neurociência anatômica: o caso do núcleo de Edinger-Westphal

Chair: Cláudio Antônio Barbosa de Toledo (UNICID – Brasil)

*Mapeando vias e circuitos neurais*

Jackson Cioni Bittencourt (ICB, USP)

09h00 - 11h00

Poster Session

09h00 - 11h00

**Room: Caravelas (H. Atlântico)**

**Business Meeting**

The birth of a Neuroscience Federation

11h00 - 13h00 - **Symposia**

**Room: Caravelas (H. Atlântico)**

SP21- MODELOS EXPERIMENTALES EN NEUROETOLOGÍA

Chair: Ana Celia Silva Barbato (Facultad de Ciencias, Uruguay)

Omar Macadar (Instituto Clemente Estable, Uruguay)

Héctor Maldonado (UBA, Argentina)

*Introducción*

Alberto Ferrús (CSIC, España)

*Memorias visuales de un cangrejo: de la ecología del comportamiento a la fisiología neuronal*

Daniel Tomsic (UBA, Argentina)

*Regulación de patrones motores: contribución de las interacciones entre motoneuronas*

Lidia Szczupak (UBA, Argentina)

*Comunicación eléctrica en peces: bases neurales de las diferencias estacionales y sexuales en la emisión de señales sociales*  
Ana Silva (Universidad de la República, Uruguay)

*Estrategias de comunicación en ruido en anfibios anuros*

Mario Penna (Universidad de Chile)

*Discusión General*

Omar Macadar (Uruguay) y Héctor Maldonado (Argentina.)

**Room: Geribá (H. Atlântico)**

SP22- PEPTIDES, NEUROGENESIS AND NEURONAL PHENOTYPE

Chairs: João Malva (Universidade de Coimbra, Portugal)

Fernando Garcia de Mello (UFRJ, Brasil)

*PACAP and neuronal phenotype in the retina*

Fernando G. De Mello (UFRJ, Brasil)

*Putrescine and neurogenesis/differentiation of subventricular zone neuroblasts*  
Cecilia Hedin-Pereira (UFRJ, Brasil)

*Microglia, inflammation and neurogenesis*  
Fernando J. Pitossi ( Instituto Leloir, Argentina)

*NPY and neurogenesis in the subventricular zone*

João O. Malva (University of Coimbra, Portugal)

**Room: Don Quijote (H. D. Quijote)**

Sp23- ISN Symposium CANNABINOID ACTIONS IN THE CENTRAL NERVOUS SYSTEM

Chair: Ismael Galve-Roperh (Complutense University, Spain)

*Anxiolytic and antidepressant cannabinoid actions*

Fabricio Moreira (Mainz University, Germany)

*Sleep regulation by cannabinoids*

Oscar Prospero-García (UNAM University, México)

*Regulation of adult neurogenesis by cannabinoids*

Ismael Galve-Roperh (Complutense University, Spain)

*Therapeutic role of non psychoactive cannabinoids in mood disorders*

Francisco Silveira Guimarães (USP, Brasil)

**Room: João Fernandes (H. Atlântico)**

SP24 - TAKING ACTION: NEW TRENDS IN MOTOR CONTROL AND BRAIN PLASTICITY

Chair: Cláudia Domingues Vargas (UFRJ, Brasil)

*Getting ready to move*

Cláudia Domingues Vargas (UFRJ, Brasil)

*Role of fronto-parietal cortices in the prediction of self generated and observed actions.*

Valeria Della Maggiore, (UBA, Argentina)

*Enhancing motor training effects with Action Observation in healthy and after stroke*

Pablo A. Celnik (Johns Hopkins Hospital, USA)

*Some new thoughts about motor recovery after stroke*

John W. Krakauer (Columbia University, USA)

*BCI, motor restoration and stroke*

Niels Birbaumer (University of Tuebingen, Germany)

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**Room: Foca (H. Atlântico)**

SP25- FUNCTIONAL PROPERTIES OF THE BRAIN FORMATION

Chair: Cláudio Antônio Barbosa de Toledo (UNICID, Brasil)

*Developmental regulatory genes as determinants of forebrain design*  
Loreta Medina (IRBLLEIDA España)

*Synaptic currents regulation underlying the development of forebrain circuitries*  
Jorge Flores-Hernandes (Universidad Autonoma de Puebla, México)

*Ontogenic changes of chemical markers in encephalic areas*  
Claudio A. B. Toledo (UNICID, Brasil)

*Behavioral correlates of a recently identified brain region*  
Andrey E. Ryabinin (Oregon Health & Sciences University, USA)

**Room: Ferradura (H. Atlântico)**

SP26- SLEEP DEPRIVATION AND METABOLISM: THE ROLE OF THE HYPOTHALAMUS

Chair: Deborah Suchecki (UNIFESP, Brasil)

*Hypocretin (Orexin) and Melanin-concentrating hormone (MCH): the "Ying" and "Yang" in the hypothalamic control of sleep*  
Pablo Torterolo (Universidad de la República, Uruguay)

*Energy metabolism during chronic REM sleep deprivation: the start of something big*  
Michael Koban (Morgan State University, USA)

*Hyperphagia following chronic REM sleep deprivation: a delayed response*  
Gloria E. Hoffman (University of Maryland, USA)

*Energy imbalance induced by REM sleep deprivation: a dialogue between periphery and the hypothalamus*  
Deborah Suchecki (UNIFESP, Brasil)

**Room: Abalone (H. Pérola)**

SP27- PSICOFÍSICA DE LA VISIÓN: ESTUDIOS BÁSICOS

Chairs: Leonel Gómez-Sena (UdelaR, Uruguay)  
Luis Issolio (UNT, Argentina)  
Alejandro Maiche (UAB, España )

*Perceptual Learning*  
Miguel Eckstein (Universidad de Santa Bárbara, USA)

*Visually directed behaviors are iterative responses?*  
Elton Matsushima (UFF, Brasil)

*Motion, Pre-activation and Reaction Time*  
Leonel Gómez (UdelaR, Uruguay)

*Interactions between integration and segmentation in motion perception*  
José Barraza (UAB, España )

**Room: Brava (H. Atlântico)**

SP28- NEUROPROTEOMICS: PRINCIPLES AND APPLICATIONS

Chair: Oscar Alzate (Duke University, USA)

*Advances in mass spectrometry for neuroproteomics*  
Carol Parker (UNC-DUKE, Colômbia / USA)

*Neuroproteomics studies in neurodegeneration*  
Oscar Alzate (Duke University Medical Center, Colômbia / USA)

*Neuroproteomics in synaptic plasticity*  
Raphael Pinaud (University of Rochester, USA )

**Room: Pérola (H. Pérola)**

Sp29- STRESS – NEUROENDOCRINE AND BEHAVIORAL VIEW

Chair: João Palermo Neto (USP, Brasil)

*Stress and neuroimmunomodulation*  
João Palermo Neto (USP, Brasil)

*Social stress, individual factors and metabolic disorders*  
Alessandro Bartolomucci (Universita' degli Studi di Parma, Italy)

*Social factors in disease coping styles: ethology of sickness behavior*  
Daniel Hamada Cohn (USP, Brasil)

*Stress effects by social confrontation on the behavior and the relations between the nervous, endocrine and immune-inflammatory systems of rats*  
Carlos de Paula Portela (USP, Brasil)

*The prenatal stress submission implications*  
Karin Kieling (USP, Brasil)

**Room: Tucuns (H. Atlântico)**

SP30- LESÕES NO SISTEMA NERVOSO E NEUROPROTEÇÃO

Chair: Carlos Alexandre Netto (UFRGS, Brasil)

*Lesões no SN e treinamento motor*  
Carlos Alexandre Netto (UFRGS, Brasil)

*Hipóxia-isquemia neonatal e neuroproteção por manipulações ambientais*  
Lenir Orlandi Pereira Silva (UFRGS, Brasil)

*Neuroproteção e produtos naturais*  
Ionara Rodrigues Siqueira (UFRGS, Brasil)

*Células-tronco e isquemia cerebral*  
Rosália Mendez-Otero (UFRJ, Brasil)

13h00 - 14h30  
Lunch break

14h30 - 15h30 - **Conferences**

**Room: João Fernandes (H. Atlântico)**

**C 06 - Conferência Olympus**

*Engineering fluorescent and bioluminescent proteins to visualize biological functions*  
Takeharu Nagai (Hokkaido University – Japan)

**Room: Tucuns (H. Atlântico)**

**C 07 - Brain clocks in flame**

Marina Bentivoglio (University of Verona, IBRO Secretary-General – Italy)

**Room: Pérola (H. Pérola)**

**C 08 - Hypothalamic kisspeptin signaling: a neurobiologic trigger for the onset of primate puberty**  
Tony M Plant (University of Pittsburg-School of Medicine, President of the International Neuroendocrine Federation – USA)

**Room: Don Quijote (H. D. Quijote)**

**C 09 – SAN Conference Eduardo De Robertis.**  
*From neuromuscular to brain "calyx of Held" fast synapses: short history of the relationship between Ca channels and transmitter release*  
Oswaldo Uchitel (Fac. de Cs. Exactas y Naturales, IFIBYNE, UBA-CONICET, Argentina)

**Room: Caravelas (H. Atlântico)**

**C 10 - Sociedad de Neurociencias del Uruguay - Conferencia Clemente Estable**

*Escenas de una historia de imagenes y peces eléctricos*

Angel Caputi (Instituto Estable – Uruguay)

15h30 - 17h30

**Poster Session**

15h30 - 17h30

**Business Meeting**

**Room: Caravelas (H. Atlântico)**

The birth of a Neuroscience Federation

**Room: Pérola (H. Pérola)**

Women in Neuroscience

**Room: Brava (H. Atlântico)**

IBRO Alumni Encounter

16h30 - 17h00

**Business Meeting**

**Room: Foca (H. Atlântico)**

Science and Art

17h30 - 19h30 - **Symposia**

**Room: João Fernandes (H. Atlântico)**

SP31- ADVANCES ON REGENERATION OF THE LESIONED SPINAL CORD

Chairs: Michele Schultz Ramos de Andrade (USP, Brasil)

Gerson Chadi (USP, Brasil)

*Peptidergic expression in primary sensory neurons after peripheral nerve injury with special reference to galanin and NPY*  
Marcelo José Villar (Austral University, Argentina)

*Neurotrophism and neuroplasticity after spinal cord lesion*  
Michele Schultz Ramos de Andrade (USP, Brasil)

*Schwann cells and the potential for spinal cord regeneration*  
Ricardo José de Almeida Leme, (USP, Brasil)

*Analysis of the potential of the stem cells in the regeneration of the lesioned spinal cord*  
Gerson Chadi (USP, Brasil)

**Room: Ferradura (H. Atlántico)**

Sp32- INFORMATION PROCESSING IN  
CORTICOSTRIATAL CIRCUITS

Chair: Gustavo Murer (UBA, Argentina)

*Information Processing in Corticostriatal  
Circuits*

Gustavo Murer (UBA, Argentina)

*Integration of information in the ventral  
striatum*

Patricio O'Donnell (University of Maryland ,  
USA)

*Hebb's cell assemblies in the neostriatum:  
a substrate for procedural memory?*

Jose Vargas Diaz (Universidad Nacional  
Autonoma de México)

*Neural mechanisms of action learning: from  
intent to habit*

Rui Costa (NIH/NIAAA, USA)

**Room: Tucuns (H. Atlántico)**

SP33- MIGRACIONES CELULARES EN EL  
SISTEMA NERVIOSO CENTRAL DE LOS  
MAMÍFEROS

Chairs: Juan A. De Carlos (Instituto Cajal-CSIC,  
España)

Fernando de Castro (Hospital Nacional de  
Paraplégicos, España)

*Tangential patterned cell movements at  
early telencephalic development*

Juan A. De Carlos (Instituto Cajal – CSIC,  
España)

*Gene control of Cajal-Retzius cell  
development*

Alfredo Varela-Echevarría (Universidad  
Nacional Autónoma de México)

*Mechanisms underlying migration of  
oligodendrocyte precursors during  
development: similarities and dissimilarities  
with neuronal migration*

Fernando de Castro (Hospital Nacional de  
Paraplégicos, España)

*Epigenetic molecules controlling neuronal  
migration during cerebellar development*

Flavia Alcântara Gomes (UFRJ, Brasil)

**Room: Don Quijote (H. D. Quijote)**

SP34- DISTINTOS ASPECTOS  
NEUROBIOLÓGICOS DEL PROCESO DE  
RECONSOLIDACIÓN DE LA MEMORIA

Chair: Victor A. Molina (Universidad Nacional de  
Córdoba, Argentina)

*Recent advances in memory  
reconsolidation. From crab to human*  
Hector Maldonado (UBA, Argentina)

*Hippocampal participation of the  
endocannabinoide system upon memory  
reconsolidation and extinction*  
Jorge Quillfeldt (UFRGS, Brasil)

*Effects of Midazolam on fear memory  
reconsolidation*  
Victor A. Molina (Universidad Nacional de  
Córdoba, Argentina)

*Role of transcription factors and gene  
expression in memory reconsolidation and  
extinction*  
Arturo Romano (UBA, Argentina)

*Cholinergic system and memory  
reconsolidation*  
Mariano Boccia (UBA, Argentina)

**Room: Pérola (H. Pérola)**

SP35- NEURAL SIGNALS IN THE BRAIN: NEW  
EXPERIMENTAL AND ANALYTICAL APPROACHES

Chair: Pedro Maldonado (Universidad de Chile)

*Contributions of neural oscillations to  
understand the cognitive dysfunction in  
schizophrenia*  
Pablo Gaspar (Universidad de Chile)

*EEG recordings and ocular movements in  
humans during free viewing of natural  
scenes*  
Pedro Maldonado (Universidad de Chile)

*Spike and LFP studies of the role of sleep  
for memory consolidation*  
Sidarta Ribeiro (Instituto Internacional de  
Neurociencias de Natal Edmond and Lily  
Safrá, Brasil)

*Partial direct coherence in EEG signals*  
Koichi Sameshima (USP- Brasil)



**Room: Tartaruga (H. Atlântico)**

SP36 - LESÕES TRAUMÁTICAS NO SISTEMA NERVOSO: ESTRATÉGIAS DE REPARO E MÉTODOS DE AVALIAÇÃO FUNCIONAL  
Chair: Ana Maria Blanco Martinez (UFRJ - Brasil)

*Estratégias de reparo em lesões traumáticas de Sistema Nervoso*  
Ana Maria Blanco Martinez (UFRJ - Brasil)

*Avaliação da função locomotora em lesão de medula espinal de ratos*  
Artur S.P. Varejão (Universidade de Trás-os-Montes e Alto Douro – Portugal)

*Efeitos neurotróficos e metabólicos do fator neurotrófico ciliar associado a um domínio de transdução de proteína*  
Francesco Langone (UNICAMP – Brasil)

*Spinal cord contusion and compression of the medullary canal in rats: analysis of the induced vascular and neuronal Nitric Oxide synthase (nNOS) changes*  
Elaine Del Bel (USP-RP – Brasil)

**Room: Brava (H. Atlântico)**

SP37- ESTIMULACIÓN CEREBRAL PROFUNDA Y TRASTORNOS DEL MOVIMIENTO  
Chair: Carlos Magariños-Ascone. (Hospital Ramón y Cajal – España)

*Anatomia funcional de los ganglios basales en condiciones normales y en modelos animales*  
M. Trinidad Herrero (Facultad de Medicina, Universidad de Murcia – España)

*La codificación neuronal en Parkinson y en Distonía*  
Carlos Magariños-Ascone. (Hospital Ramón y Cajal – España)

*El papel de los Ganglios Basales en la nocicepción*  
Jorge H Pazo.(UBA – Argentina)

*Caracterización molecular de las neuronas TH positivas que aparecen en el estriado despues de la lesion dopaminérgica*  
Rosario Moratalla Villalba (Consejo Superior de Investigaciones Científicas – España)

*Nuevas indicaciones que surgen de la experiencia de la Distonía. Videos*  
Ignacio Regidor Bailly-Bailliere (Hospital Ramón y Cajal – España)

*Estimulación Cortical*

Manoel Jacobsen Teixeira (USP – Brasil)

**Room: Foca (H. Atlântico)**

SP38 - SUEÑO Y AUDICION  
Chair: Luis A. Aguilar Mendoza (SONEP - Peru)

*Neuropeptidos en el Sistema Nervioso Auditivo Central*  
Luis A. Aguilar Mendoza (Universidad Peruana Cayetano Heredia – Peru)

*Parasomnias y Epilepsias Nocturnas. Diagnóstico Diferencial.*  
Rosa Peraita Ados (Hospital General Universitario Gregorio Marañón – España)

*Ritmo Theta como organizador temporal de descargas sensoriales*  
Marissa Pedemonte (Universidad de la República- Ministerio Educación y Cultura – Uruguay)

*Procesamiento de información auditiva en hipocampo y corteza motora primaria: generación de respuestas condicionadas motoras*  
Alejandro Munera (Universidad Nacional de Colombia)

**Room: Caravelas (H. Atlântico)**

SP39 - BASIC ASPECTS OF THE EPILEPSIES  
Chairs: Esper A. Cavalheiro (UNIFESP - Brasil)  
Luisa Rocha (Center for Research and Advanced Studies. Department of Pharmacobiology – Mexico)

*Electrical and chemical synapses and epileptogenesis*  
Rafael Gutiérrez (Center for Research and Advanced Studies – Mexico)

*Does excitatory aminoacid transmission matter in epilepsy?*  
José Ortiz (University of Puerto Rico)

*Plastic changes in epilepsy: Jekyll, Mr. Hyde and the cholinergic system*  
Luiz Eugênio Mello (UNIFESP- EPM - Brasil)

*Epileptogenesis and antiepileptogenesis: an experimental approach*  
Esper A. Cavalheiro (UNIFESP - Brasil)



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*High frequency electrical stimulation with antiepileptic effects. Does it work?*

Luisa Rocha (Center for Research and Advanced Studies. Department of Pharmacobiology - Mexico)

**Room: Geribá (H. Atlântico)**

SP40 - NEUROCIÊNCIAS E SOCIEDADE:  
PESQUISA CLÍNICA-EPIDEMIOLÓGICA E  
PRÁTICA EDUCATIVA

Chair: Kelly Cristina Atalaia-Silva (UPO - España / UERJ - Brasil)

*Estudo epidemiológico de normatização e validação de instrumentos de avaliação cognitiva*

Kelly Cristina Atalaia-Silva (UPO - España / UERJ - Brasil)

*Interfase pedagogía de la liberación y neurociencias*

Nicolás Jorge Mylonas (Universidad Nacional de Rosario – Argentina)

*Modelos terapêuticos no tratamento da doença de alzheimer baseados na pesquisa clínica em neurociências*

Cláudia Helena Cerqueira Mármora (UFJF – Brasil)

*Intersecções entre psicologia e neurociências: o papel da avaliação neuropsicológica como base aliada às neurociências no estudo com indivíduos idosos*

Eliane Ferreira Carvalho Banhato (CES de Juiz de Fora – Brasil)

19h30 - 21h00

**Room: Caravelas (H. Atlântico)**

NeuroLatAm meeting

08h00 – 09h00 - **Tutorials (Minicursos)**

**Room: João Fernandes (H. Atlântico)**

T01- Bases celulares e moleculares da neuroimunomodulação

Chair: Wilson Savino (Instituto Oswaldo Cruz - Brasil)

*Interações imunoneuroendócrinas em doenças infecciosas*  
Wilson Savino e Ana Rosa Perez

**Room: Don Quijote (H. D. Quijote)**

T02- Modelos animais em neurociências

Chair: Carlos Alexandre Netto (UFRGS – Brasil)

*Modelos animais para o estudo da ansiedade e depressão*  
Francisco Silveira Guimarães (USP - Brasil)

**Room: Amores (H. Atlântico)**

TO3- Espectroscopia de ressonância magnética para determinação das variações de neurotransmissores

Chairs:

Rosane Gomez (Centro Universitário Metodista – Brasil)

Graeme Mason (Yale University – USA)

*Variações do GABA, glutamato e outros metabólitos em diferentes áreas do cérebro de ratos administrados com etanol*  
Rosane Gomez (Centro Universitário Metodista - Brasil)

**Room: Tartaruga (H. Atlântico)**

T04- Introdução à modelagem do comportamento animal por redes neurais

Chair: Antônio Carlos Roque da Silva Filho (USP-RP – Brasil)

*Introdução à modelagem do comportamento animal em labirintos*  
Héctor Julián Tejada Herrera (USP-RP – Brasil)

**Room: Canto (H. Atlântico)**

T05- EEG Functional Analysis

Chair: Koichi Sameshima (USP – Brasil)

*Contribution to EEG analysis during active visual exploration.*  
Pedro Maldonado (Universidad de Chile)

**Room: Foca (H. Atlântico)**

T06- Sueño y audición

Chair: Luis Angel Aguilar Mendoza (Universidad Peruana Cayetano Heredia – Peru)

*Neuropeptidos en el Sistema Nervioso Auditivo Central*  
Luis A. Aguilar (Universidad Peruana Cayetano Heredia - Peru)

**Room: Geribá (H. Atlântico)**

T07- Citometria de flujo aplicado al sistema nervioso

Chair: Bernardo Castellano López (Universidad Autónoma de Barcelona, España)

**Room: Brava (H. Atlântico)**

T08- Eye-trackers and psychophysical applications

Chair: Edgard Morya (AASDAP, Sírio-Libanês Hospital – Brasil)

*Eye-tracking analysis, nearest neighbour index and mental workload*

Francesco Di Nocera (Universita delgi Studi di Roma La Sapienza - Italy)

**Room: Tucuns (H. Atlântico)**

T09- Bases neurobiológicas de la adicción a drogas

Chair: José Antonio Fuentealba (Pontificia Universidad Católica – Chile)

*Estrés, plasticidad sináptica y memoria adictiva*

Luis Felipe Orozco-Cabal (Pontificia Universidad Javeriana - Colombia)

*Mecanismos de “craving”*

Fernando Torrealba (Pontificia Universidad Católica - Chile)

**Room: Caravelas (H. Atlântico)**

T10- Neurociência anatômica: o caso do núcleo de Edinger-Westphal

Chairs: Cláudio Antônio Barbosa de Toledo (Universidade Cidade de São Paulo – Brasil)

Jackson Cioni Bittencourt (USP – Brasil)

*Anatomical identification of brain areas involved with specific behavioral responses.*

Andrey Ryabinin (Oregon Health & Science University-USA)

09h00 - 11h00

**Poster Session**

11h00 - 13h00 - **Symposia**

**Room: Don Quijote (H. D. Quijote)**

SP41 - NEUROMODULATION AND NEUROPROTECTION BY PURINES: METABOLISM, RECEPTORS AND TRANSPORTERS MEET TOGETHER

Chair: Roberto Paes de Carvalho (UFF - Brasil)

*ATP, ecto-nucleotidases, Activation of Adenosine Receptors and Control of Synaptic Plasticity*

Rodrigo Cunha (Faculdade de Medicina, Universidade de Coimbra – Portugal)

*Control of Striatal Neurotransmission by Adenosine Receptors Oligomerization*  
Francisco Ciruela (Univ. Barcelona – España)

*Regulation of adenosine receptor expression in developing retinal cells in vivo and in vitro*  
Roberto Paes de Carvalho (UFF - Brasil)

*Guanosine impact on neuroprotection*  
Diogo Souza (UFRS – Brasil)

**Room: Foca (H. Atlântico)**

SP42 - DYNAMICAL CORTICAL ASSEMBLIES  
Chair: Sergio Neuenschwander (Max-Planck Institute for BrainResearch – Germany)

*Response properties of neurons in the avian visual forebrain*  
Jerome Baron (UFMG – Brasil)

*Gamma oscillations: What to expect?*  
Sergio Neuenschwander (Max-Planck Institute for BrainResearch – Germany)

*Dynamic attentional routing of information processing by selective neuronal synchronization*  
Thilo Womelsdorf (Donders Centre for Neuroimaging - Netherlands)

*Synchronization dynamics in human visual perception*  
Eugenio Rodriguez (Pontificia Universidad Católica de Chile)

**Room: Geribá (H. Atlântico)**

SP43 - SURVIVAL AND DIFFERENTIATION OF NEURONAL CELLS.  
Chair: Elizabeth Giestal de Araujo (UFF – Brasil)

*Is ouabain a new trophic factor for retinal ganglion cells?*  
Elizabeth Giestal de Araujo (UFF – Brasil)

*Integrin signaling in the regulation of peripheral nerve myelination*  
João Relvas (IBMC – Portugal)

*Regulation of survival and development of retina photoreceptors by sphingolipids*  
Nora Rotstein (Universidad Nacional del Sur – Argentina)

*Cross-talk between TrkB and adenosine A2A receptors in neuronal survival*  
Ana Sebastião (Faculdade de Medicina, Universidade de Lisboa – Portugal)

**Room: Brava (H. Atlântico)**

SP44 - PSICOFÍSICA DE LA VISIÓN: METODOLOGÍAS Y APLICACIONES / VISUAL PSYCHOPHYSICS: METHODOLOGIES AND APPLICATIONS

Chairs: Leonel Gómez (Universidad de la República Oriental del Uruguay)  
Luis Issolio (UNT - Argentina)  
Alejandro Maiche (UAB – España)

*Glare effects on brightness*  
Luis Issolio (UNT – Argentina)

*Psicofísica Visual Clínica: Sensibilidade ao Contraste*  
Marcelo Costa (USP – Brasil)

*Psychophysical Parameters to Investigate Visual Perception and Brain Asymmetry*  
Sergio Fukusima (USP – Brasil)

*Minicerebros que detectan colisiones: estudios comportamentales y neurofisiológicos en el cangrejo Chasmagnathus.*  
Daniel Tomsic (UBA – Argentina)

**Room: Armação (H. Atlântico)**

SP45- OLYMPUS SYMPOSIUM: UNDERSTANDING FORCE GENERATION IN NEURONS USING OPTICAL TWEEZERS  
Chair: Vincent Torre (SISSA Trieste – Italy)

*Understanding force generation in neurons using optical tweezers*  
Vincent Torre (SISSA Trieste – Italy)

*Biophotonics and cell revolution*  
Carlos Lenz (UNICAMP – Brasil)

**Room: João Fernandes (H. Atlântico)**

SP46- A ORQUESTRA CIRCADIANA: MECANISMOS DE REGULAÇÃO DA RITMICIDADE CIRCADIANA  
Chair: John Fontenele Araujo (UFRN – Brasil)

*Mecanismos moleculares*  
Horário de La Iglesia (University of Washington – USA)

*Molecular mechanisms of circadian entrainment: signalling labyrinths in the mammalian clock*  
Diego Golombek (Universidad Nacional de Quilmes – Argentina)

*Brain oscillators entrained to daily meal or chocolate time*

Carolina Escobar (UNAM – México)

*Além da Temporização: Um Modelo de Rede para o Sistema Circadiano*

John Fontenele Araujo (UFRN – Brasil)

**Room: Tucuns (H. Atlântico)**

SP47 - MODELOS ANIMAIS DE EMOCIONALIDADE: PAPEL NO DESENVOLVIMENTO DE NOVAS ESTRATÉGIAS TERAPÊUTICAS

Chair: Reinaldo N. Takahashi (UFSC.- Brasil)

*Cafeina reverte prejuízos cognitivos em modelo animal de TDAH*

Reinaldo N. Takahashi (UFSC – Brasil)

*Development of an animal model of Post-traumatic Stress Disorder (PTSD)*

Carsten T Wotjak (Max Planck Institute – Germany)

*Ansiedade: um fator crítico em modelos animais de dependência química?*

Roberto Frussa-Filho (UNIFESP – Brasil)

*Learning and memory deficits observed in rats with lesions in the substantia nigra pars compacta*

Cláudio da Cunha, (UFPR – Brasil)

**Room: Caravelas (H. Atlântico)**

SP48 - DESARROLLO DEL SISTEMA NERVIOSO: DE LAS MOLÉCULAS A LOS CIRCUITOS NEURALES

Chair: María E. Castelló (Instituto de Investigaciones Biológicas Clemente Estable, Ministerio de Educación y Cultura – Uruguay)

*EL rol de la proteína asociada a microtúbulos 1B en migración neuronal*  
Christian Gonzalez-Billault (Universidad de Chile)

*Desarrollo postnatal de las vía electrosensorial rápida en *Gymnotus omari**  
María E. Castelló (Instituto de Investigaciones Biológicas Clemente Estable, Ministerio de Educación y Cultura – Uruguay)

*Rol of Lfc, a guanosine-nucleotide exchange factor for Rho, in axon formation*  
Cecilia Conde (INIMEC-CONICET - Argentina)

*Identificación de zonas proliferativas en el cerebro de peces adultos del género *Austrolebias*: probables sitios con capacidad neurogénica*

Anabel Fernández (Instituto de Investigaciones Biológicas Clemente Estable, Ministerio de Educación y Cultura – Uruguay)

*Funciones de las proteínas MARCKS en el desarrollo neural del pez cebra*

Flavio Zolessi (Facultad de Ciencias, Universidad de la República Uruguay)

**Room: Canto (H. Atlântico)**

SP49 - AXONAL DEGENERATION AND NEURONAL REPAIR IN MS. NEW THERAPEUTIC STRATEGY

Chair: Maria Robinson Agramonte (CIREN – Cuba)

*Desmielinización-Remielinización: Participación de la Apotransferrina y la vía de Notch*

Ana M Adamo (Fundación Instituto Leloir - Argentina)

*Update in pathogenic spectrum of MS*

Elena Noris García (Facultad de Ciencias Medicas "Dr Miguel Enríquez" – Cuba)

*Novel insights in demyelinating diseases and current immunomodulatory strategy.*  
Maria Robinson Agramonte (CIREN – Cuba)

*Interferon treatment in MS. Update and experience in Latin American and Caribbean countries*

José A Cabrera Gómez: (CIREN – Cuba)

**Room: Amores (H. Atlântico)**

SP53 - NEURAL CODES FOR TACTILE PERCEPTION

Chair: Daniel Shulz (CNRS - France)

*Non linear sensory processing in the rat somatosensory cortex*  
Daniel Shulz (CNRS – France)

*Simple forms of context dependence in cortical tactile representations*  
Miguel Maravall (Instituto de Neurociencias de Alicante – España)

*Neuronal activity in S1 cortex barrel field during novel object exploration and subsequent sleep*

Sidarta Ribeiro (Edmond and Lily Safra International Institute of Neuroscience of Natal – Brasil)

*Neuronal correlates of subjective sensory experience*

Ranulfo Romo ( Instituto de Fisiologia celular - México)

13h00 - 14h30

Lunch break

14h30 - 15h30 - **Conferences**

**Room: João Fernandes (H. Atlântico)**

**C 11 - Sociedad Chilena de Neurociencia**

*A central role for the insula in drug addiction*

Fernando Torrealba (Pontificia Universidad Catolica - Chile)

**Room: Ferradura (H. Atlântico)**

**C 12 - Prion-Nucleic Acid Interactions and their Physiological and Pathological Roles**

Jerson Lima (UFRJ, FAPERJ - Brasil)

**Room: Don Quijote (H. D. Quijote)**

**C 13 - Retrieval and off-line memory processing during sleep and wakefulness**

Susan J. Sara (CNRS, Collège de France, IBRO executive committee - France)

**Room: Caravelas (H. Atlântico)**

**C 14 - Macular Degeneration and the Metabolic Demands of Vision**

Robert Barlow (SUNY Upstate Medical University, President of ARVO - USA)

**Room: Tucun (H. Atlântico)**

**C 15 - Sociedade Brasileira de Neurociências e Comportamento**

*Neurobiologia do transtorno de pânico: dos modelos animais à neuroimagem*

Frederico Guilherme Graeff (USP-RP - Brasil)

15h30 - 17h30

**Poster Session**

17h30 - 19h30 - **Symposia**

**Room: Brava (H. Atlântico)**

**SP50- MECANISMOS MOLECULARES DA INTOXICAÇÃO MERCURIAL**

Chair: Maria Elena Crespo López (UFPA - Brasil)

*Mercurio y neurotransmisión*

Cristina Suñol (Instituto de Investigaciones Biomédicas de Barcelona - España)

*Mercurio y Genotoxicidad: Recientes Descubrimientos en Células Humanas del Sistema Nervioso Central.*

Maria Elena Crespo (UFPA - Brasil)

*Mercúrio e Estresse Oxidativo*

José Luiz Martins do Nascimento (UFPA - Brasil)

*Mecanismos de proteção contra a toxicidade do Metilmercúrio no Sistema Nervoso Central*

Anderson Manoel Herculano (UFPA - Brasil)

**Room: Don Quijote (H. D. Quijote)**

**SP51 - ENDOCANNABINOID SYSTEM AND PSYCHIATRIC DISORDERS: A**

**NEUROBIOLOGICAL FOCUS**

Chair: Jair Guilherme dos Santos Junior (FCMSCSP - Brasil)

*Sinalización del sistema endocanabinoide*

Alícia Brusco (UBA - Argentina)

*Sistema endocanabinoide e transtornos do humor*

Dartiu Xavier da Silveira (UNIFESP - Brasil)

*Sistema endocanabinoide e dependência às drogas*

Jair Guilherme dos Santos Junior  
FCMSCSP - Brasil)

*Endocannabinoid signaling in cognition and emotionality*

Carsten T. Wotjakin (Max Planck Institute of Psychiatry - Germany)

**Room: Foca (H. Atlântico)**

**SP52 - NOVEL ASPECTS IN RETINAL PHYSIOLOGY AND PATHOLOGY**

Chairs: Ana Maria de Lauro Castrucci (USP - Brasil)  
Mario E. Guido (Universidad Nacional de Córdoba - Argentina)

*Morphofunctional aspects of the retina in diurnal and nocturnal animals*

Fernando Allan de Farias Rocha (UFPA - Brasil)

*Expression of Opn4x, Opn4m, Clock, N-Acetyltransferase and Tyrosine Hydroxylase in chicken embryonic retinal cells and their modulation by light and glutamate*

Ana Maria de Lauro Castrucci (USP - Brasil)



*Development and plasticity of intrinsically photoreceptive retinal ganglion cells in the mouse*

José M. García-Fernández, (Universidad de Oviedo – Spain)

*Light responses in a non-mammalian model of blindness*

Mario E. Guido (Universidad Nacional de Córdoba – Argentina)

**Room: Ferradura (H. Atlântico)**

Sp54 - BRAIN DEVELOPMENT: CURRENT TRENDS IN MORPHOLOGICAL, ELECTROPHYSIOLOGICAL AND NUTRITIONAL INVESTIGATIONS

Chair: Rubem Guedes (UFPE - Brasil)

*Excessive Arginine intake early-in-life and brain development: an electrophysiological study*

Rubem Guedes (UFPE - Brasil.)

*Brain oscillations as circuit and mechanism integrators in behavior and physiology responses of the developing malnourished rat*

Pilar Durán (Universidad Nacional Autónoma de Mexico)

*Nutritional tryptophan restriction alters development and plasticity of central visual pathways*

Claudio Serfaty (UFF – Brasil)

*The sleep-wake cycle and its circadian rhythm in the malnourished brain of the rat*  
Leon Cintra (Univ. Nacional Autónoma de Mexico)

**Room: Caravelas (H. Atlântico)**

SP55 - THE PHYSICS AND COMPUTATIONAL ASPECTS OF NEURAL CODING

Chair: Antonio Roque (USP-RP – Brasil)

*Effect of gap junction coupling on the dynamic range of the retina*

Antonio Roque (USP-RP – Brasil)

*Why neurons have active dendrites?*

Mauro Copelli (UFPE – Brasil)

*A realistic model of the electrogenic system of pulse gymnotids*

Pedro Aguilera (IIBCE – Urugua)

*Matching between the computational properties of the neurons and the circuits that they form*

Javier Nogueira (UDELAR – Uruguay)

*Fine temporal coding in the auditory system: a model for vibrato perception*

Manuel C. Eguía (Universidad Nacional de Quilmes – Argentina)

*A dynamical theory for the neural basis of tonal music*

Dante R. Chialvo (Univ. Chicago - USA / Universidad Nacional de Rosario – Argentina)

**Room: João Fernandes (H. Atlântico)**

SP56 - NEURODEGENERACIÓN Y SUS MECANISMOS SUBYACENTES: DISTINTAS VÍAS PARA UNA MISMA CONSECUENCIA?

Chairs: Silvia Olivera Bravo (Instituto de Investigaciones Biológicas Clemente Estable – Uruguay)

Andreza Fabro de Bem (UFSC – Brasil)

Patricia Cassina (UdelaR – Uruguay)

*Mitocondria y neurodegeneración en el modelo G93A de esclerosis lateral amiotrófica*

Patricia Cassina (UdelaR – Uruguay)

*Neurotoxicidade induzida por metais e a modulação de vias de sinalização intracelular*

Rodrigo Bainy Leal (UFSC – Brasil)

*Methylmercury chronic administration effect on electron transport chain in mice brain*

Alexan Latini (UFSC – Brasil)

*Modulación del comportamiento celular entre células de Schwann y axones del sistema nervioso periférico, en condiciones normales y patológicas*  
Alejan Kun (UdelaR – Uruguay)

*Epilepsia de lobo temporal e esclerose do hipocampo: aspectos clínicos e experimentais*

Roger Walz (UFSC – Brasil)

*Bases neurobiológicas del efecto de grelina sobre ansiedad, memoria e ingesta*  
Susana Rubiales (Universidad Nacional de Córdoba – España)

**Room: Tucuns (H. Atlântico)**

SP57 - NEUROCIÊNCIAS E ARTES

Chair: Rodrigo Siqueira Batista (CEFET – Brasil)

*Neurociências e arte: o cérebro entre o acaso e a necessidade*

Ana Maria C. Aleksandrowicz (UNIFESO / FIOCRUZ – Brasil)



**September 4th, 2008**

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*Neurociências e Cinema*

Rodrigo Siqueira Batista (CEFET – Brasil)

*Neurociências e Artes plásticas*

Maria Helena Lisboa da Cunha (UERJ –  
Brasil)

*O cérebro humano como obra de arte*

Vanderson Esperidião Antonio (Centro  
Universitário Serra dos Órgãos – Brasil)

19h30

**Room:Atlântico (H. Atlântico)**

Closing Ceremony