



18 NATIONAL MEETING OF THE SPANISH SOCIETY OF NEUROSCIENCE

SANTIAGO DE COMPOSTELA

4 - 6 SEPTEMBER, 2019

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SEPTEMBER 4th. WEDNESDAY

08:30-13:30 Symposium organized by a Network
Santiago Main Room

08:30-13:30 Symposium organized by a Network
Obradoiro Room 1

08:30-13:30 Symposium organized by a Network
Room 2

13:30-15:00 Opening ceremony and Welcome cocktail
Exhibition hall

15:00-17:30 Symposium 1
Santiago Main Room
Long term effects of stress: Implications for mental health

Chair:

Juan Nacher

Neurobiology Unit, Cell Biology Department, Interdisciplinary Research Structure for Biotechnology and Biomedicine (BIOTECMED), Universitat de València, Spain, CIBERSAM: Spanish National Network for Research in Mental Health, Spain
Fundación Investigación Hospital Clínico De Valencia, INCLIVA, Valencia, Spain

Speakers:

Hippocampal extracellular matrix alterations contribute to cognitive impairment associated with depressive-like state

Sabine Spijker

Department of Molecular and Cellular Neurobiology, Center for Neurogenomics and Cognitive Research, Amsterdam Neuroscience, Vrije Universiteit Amsterdam, Amsterdam, Netherlands.

Child-to-adult neurodevelopmental and mental health trajectories after early life deprivation

Edmund J. S. Sonuga-Barke

Developmental Brain-Behaviour Laboratory, Department of Psychology, University of Southampton, Southampton, UK
Department of Child and Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

Short- and long-term behavioral, endocrine and neural effects of adolescent stress in a rat model

Roser Nadal

Institut de Neurociències, Universitat Autònoma de Barcelona, Spain.
Psychobiology Unit, School of Psychology, Universitat Autònoma de Barcelona, Spain
Animal Physiology Unit, School of Biosciences, Universitat Autònoma de Barcelona, Spain.
CIBERSAM, Instituto de Salud Carlos III, Spain

Impact of aversive experiences on interneuronal structure, connectivity and plasticity. Implications for major depressive disorder

Juan Nacher

Neurobiology Unit, Cell Biology Department, Interdisciplinary Research Structure for Biotechnology and Biomedicine (BIOTECMED), Universitat de València, Spain, CIBERSAM: Spanish National Network for Research in Mental Health, Spain
Fundación Investigación Hospital Clínico De Valencia, INCLIVA, Valencia, Spain

SEPTEMBER 4th. WEDNESDAY

15:00-17:30
Obradoiro Room 1

Symposium 2 Signaling in Brain Tumors

Chair:

Sergio Casas Tintó
Instituto Cajal, CSIC, Madrid, Spain

Speakers:

Oncolytic virus infection as an antitumoral strategy in pediatric high-grade glioma

Marta M Alonso
Department of Pediatrics, University Hospital of Navarra. Program of Solid Tumors, Foundation for the Applied Medical Research (CIMA), Pamplona, Spain

EGFR signaling in brain tumors

Pilar Sánchez-Gómez
Instituto de Salud Carlos III, UFIEC/CROSADIS, Madrid, Spain

Molecular mechanisms for novel treatments against brain tumor

Guillermo Velasco
Universidad Complutense de Madrid, Spain

Signals that coordinate glia-neuron communication in glioma

Sergio Casas Tintó
Instituto Cajal, CSIC, Madrid, Spain

15:00-19:00
Exhibition hall

Poster Session I

17:30-18:00
Exhibition hall

Coffee break

19:00-20:00
Santiago Main Room

Plenary Lecture The female butterflies of the soul: a Journey from sex chromosomes to women's brains

Chair:

Amanda Sierra
IKERBASQUE, Basque Foundation for Science, Bilbao-Bizkaia, Spain
Vice-president of the Spanish Society of Neuroscience, SENC

Speaker:

Luis Miguel García Segura
Research Professor in the Cajal Institute of the CSIC, Madrid, Spain

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SEPTEMBER 5th. THURSDAY

08:30-11:00

Santiago Main Room

Symposium 3

New horizons on brain disorders: from clinical diagnosis to cell therapy and the impact on neuro-glial circuits structure and dynamics

Chair:

Paolo Bonifazi

Biocruces Health Research Institute, Barakaldo, Spain

Speakers:

Topological properties of neuronal circuits emerging from spontaneous dynamics: from hub neurons to cerebellar networks failures

Paolo Bonifazi

Biocruces Health Research Institute, Barakaldo, Spain

Status epilépticus: from bench to bedside

José Luis Fernández Torre

Hospital Universitario Marqués de Valdecilla, Santander, Spain

Synapse-glial interactions in regulation of network dysfunction underpinning cognitive impairment

Maurizio de Pittà

Basque Center for Applied Mathematics (BCAM), Bilbao, Spain

Cell therapy: GABAergic neuronal precursor grafting

Manuel Álvarez Dolado

Centro Andaluz de Biología Molecular y Medicina Regenerativa, Seville, Spain

08:30-11:00

Obradoiro Room 1

Symposium 4

Neural Basis of Social Behaviour

Chairs:

Enrique Lanuza Navarro

Dept. of Cell Biology, University of Valencia, Spain

Fernando Martínez-García

Dept. of Medicine, University Jaume I of Castelló, Spain

Speakers:

Hypothalamic control of sexual behaviour

Susana Lima

Champalimaud Centre for the Unknown, Champalimaud Research, Lisbon, Portugal

Enrique Lanuza Navarro

Dept. of Cell Biology, University of Valencia, Spain

Oxytocin: from attachment to bond disruption

Tobias Pohl

Dept. of Behavioural and Molecular Neurobiology, Institute of Zoology, University of Regensburg, Germany

Pheromones and motherhood

Fernando Martínez-García

Dept. of Medicine, University Jaume I of Castelló, Spain

SEPTEMBER 5th. THURSDAY

08:30-12:30
Exhibition hall

Poster Session II

11:00-11:30
Exhibition hall

Coffee break

12:00-13:30
Santiago Main Room

Olympus Award

13:30-15:00

Lunch Break

13:30-15:00
Obradoiro Room 1

Satellite Symposia. Technical Workshop

13:30-15:00
Room 2

Satellite Symposia. Podium

15:00-17:30
Santiago Main Room

Symposium 5
New views on the development and evolution of the forebrain

Chairs:

Diego García-González

Biotech Research and Innovation Centre (BRIC), Copenhagen, Denmark

Fernando García-Moreno

Achucarro Basque Center for Neuroscience, Bilbao, Spain

Speakers:

Instructive roles of the vasculature on nervous system development

Amparo Acker-Palmer

Goethe University and Max Planck Institute for Brain Research, Frankfurt, Germany

Biological hierarchy and the origin of the neocortex

Steve Briscoe

Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany

Chronological construction of telencephalic sensory processing circuits in amniotes

Fernando García-Moreno

Achucarro Basque Center for Neuroscience, Bilbao, Spain

Mechanisms of postnatal neuroblast migration

Diego García-González

Biotech Research and Innovation Centre (BRIC), Copenhagen, Denmark

SEPTEMBER 5th. THURSDAY

15:00-17:30
Obradoiro Room 1

Symposium 6
Transitions across brain states: experiments, models, simulations and clinical implications.

Chair:

Mavi Sanchez-Vives
ICREA – IDIBAPS, Barcelona, Spain

Speakers:

Global brain activity in different states and anesthesia levels

Mavi Sanchez-Vives
ICREA – IDIBAPS, Barcelona, Spain

Modelling brain states: from single units to populations using mean-field models

Alain Destexhe
Centre National de la Recherche Scientifique (CNRS), Paris, France

Modulatory mechanisms underlying simulations of synchronous-asynchronous states in the neocortex

Srikanth Ramaswamy
Brain Mind Institute at the EPFL, Geneva, Switzerland

Brain states, complexity and consciousness levels

Marcello Massimini
IRCCS Fondazione Don Gnocchi, Milan

15:00-19:00
Exhibition hall

Poster Session III

19:00-20:00
Santiago Main Room

The EMBO Keynote Lecture
Neuronal circuit-based medicine

Chair:

Agnès Gruart
Universidad Pablo de Olavide, Sevilla, Spain
President of the Spanish Society of Neuroscience, SENC

Speaker:

Botond Roska
Institute of Molecular and Clinical Ophthalmology Basel (IOB), Basel, Switzerland

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08:30-11:00

Santiago Main Room

Symposium 7

Not the usual suspects: new insights into damage and repair in the multiple sclerosis brain

Chairs:

Fernanda Marques

Life and Health Sciences Research Institute, School of Medicine, University of Minho, Portugal

João Cerqueira

Life and Health Sciences Research Institute, School of Medicine, University of Minho, Portugal

Speakers:

Role of astrocytic proteins in multiple sclerosis

Fernanda Marques

Life and Health Sciences Research Institute, School of Medicine, University of Minho, Portugal

Interplay between glial-immune cells in multiple sclerosis

Adelaide Maria Afonso Fernandes Borralho

Research Institute for Medicine (iMed.Ulisboa), Faculty of Pharmacy, University of Lisbon, Portugal

Clonal glial response in multiple sclerosis

Ana Bribian

Departamento de Neurobiología Molecular, Celular y del Desarrollo, Instituto Cajal-CSIC, Madrid, Spain

Neuronal alterations underpinning cognitive deficits in the mouse model of multiple sclerosis

João Cerqueira

Life and Health Sciences Research Institute, School of Medicine, University of Minho, Portugal

SEPTEMBER 6th. FRIDAY

08:30-11:00
Obradoiro Room 1

Symposium 8
Circuits and mechanisms of emotional behaviours

Chairs:

Juan Lerma

Instituto de Neurociencias CSIC-UMH, Alicante, Spain

José Antonio Esteban García

Centro de Biología Molecular Severo Ochoa (CSIC/UAM), Madrid, Spain

Speakers:

Impact on circuit equilibrium and emotional behaviour of changing synaptic gain

Juan Lerma

Instituto de Neurociencias CSIC-UMH, Alicante, Spain

The role of reward system in social motivation deficits in ASDs

Camilla Bellone

University de Geneve, Switzerland

PI3K/PTEN signaling for synaptic plasticity and social behavior

José Antonio Esteban García

Centro de Biología Molecular Severo Ochoa (CSIC/UAM), Madrid, Spain

Molecular mechanisms underlying autism spectrum disorders

Gaia Novarino

Institute of Science and Technology Austria, Klosterneuburg, Austria

08:30-12:30
Exhibition hall

Poster Session IV

11:00-11:30
Exhibition hall

Coffee break

12:30-13:30
Santiago Main Room

Plenary Lecture

Chair:

Fernando de Castro

Instituto Cajal-CSIC, Madrid, Spain

President of the Programs Committee of the Spanish Society of Neuroscience, SENC

Speaker:

Paola Arlotta

Research Professor in the Cajal Institute of the CSIC, Madrid, Spain

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13:30-15:00 **Lunch Break**

13:30-15:00 **Satellite Symposia. Technical Workshop**
Obradoiro Room 1

13:30-15:00 **Satellite Symposia. Podium**
Room 2

15:00-17:30 **Symposium 9**
Santiago Main Room **Physiological, pathological and reprogrammed glio/neurogenesis in the adult brain**

Chairs:

Juan Manuel Encinas Pérez

Ikerbasque Research Professor, Group Leader. Ikerbasque, the Basque Foundation for Science and Achucarro Basque Center for Neuroscience, Leioa, Bizkaia, Spain

María Llorens Martín

Group Leader, Dept. de Neuropatología Molecular Centro de Biología Molecular Severo Ochoa (CBM), Madrid, Spain

Speakers:

Glia-to-neuron reprogramming via unfolding of a neural stem cell program

Benedikt Berninger

Professor, Group Leader. Centre for Developmental Neurobiology Institute of Psychiatry, Psychology & Neuroscience King's College London, United Kingdom

Functional heterogeneity and dynamic of astrocytes in the adult mouse hippocampus

Ruth Beckervordersandforth

Group Leader, Friederich-Alexander Universität (FAU) Medizinische Fakultät, Institut Für Biochemie, Erlangen, Germany

Adult hippocampal neurogenesis and Alzheimer's disease

María Llorens Martín

Group Leader, Dept. de Neuropatología Molecular Centro de Biología Molecular Severo Ochoa (CBM), Madrid, Spain

Proinflammatory profile and mechanisms of induction of reactive neural stem cells

Juan Manuel Encinas Pérez

Ikerbasque Research Professor, Group Leader. Ikerbasque, the Basque Foundation for Science and Achucarro Basque Center for Neuroscience, Leioa, Bizkaia, Spain

SEPTEMBER 6th. FRIDAY

15:00-17:30
Obradoiro Room 1

Symposium 10
Cell type diversity in the hippocampus and its role in health and disease

Chair:

Albert Giralt Torroella

Department of Biomedicine. Faculty of Medicine. University of Barcelona, Spain

Speakers:

Specification of a CA1-pyramidal neuronal subtype and evaluation of its role during chronic stress

Albert Giralt Torroella

Department of Biomedicine. Faculty of Medicine. University of Barcelona, Spain

Systemic regulation of adult neurogenesis

Pablo Esteban Jercog

Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

Interneuron diversity in hippocampal memory circuits

Pablo Méndez

Laboratorio de Microcircuitos Inhibitorios. Instituto Cajal (CSIC), Madrid, Spain

A sublayer specific network of interacting cell types underlying hippocampal sclerosis in CA1

Jose P. Lopez-Atalaya

Instituto de Neurociencias (UMH-CSIC), Alicante, Spain

15:00-19:00
Exhibition hall

Poster Session V

17:30-18:00
Exhibition hall

Coffee break

19:00-20:30
Santiago Main Room

SENC Assembly

21:30

Gala dinner