

SCIENTIFIC PROGRAMME

Tuesday: September 26th

Rooms

Sessions

Room

Coloquios

10:00-13:30

Professional Developmental Session

10:00 - 10:15

OPENING REMARKS

Jordi Alberch
IDIBAPS, SENC President

10:15 - 11:00

INSPIRATION FROM THE YOUTH – GETTING STARTED AND GETTING AHEAD

Marta Navarrete
CBMSO

11:00 – 11:45

INSPIRATION FROM EXPERIENCE – GETTING BETTER AND NOT BITTER

Carlos Belmonte
Institute of Neuroscience. Alicante

11:45 - 12:15

COFFEE BREAK

12:15 - 13:30

SCIENTIFIC WRITING AND PUBLISHING EDITORIAL MOCK REVIEW

Katherine Brown
Development, Executive Editor. Editorial mock review

13:30 – 15:00

LUNCH

15:00 – 16:30

PERSONAL BRANDING AND EMPLOYABILITY. COMMUNICATION SKILLS AND BODY LANGUAGE

Amber Wigmore
Executive Director of Talent & Careers, IE

16:30 - 17:30	ENTREPRENEURSHIP, MOVING AWAY FROM ACADEMIA Antonio Ferrer-Montiel <i>Executive President Antalgensics, Univ. Miguel Hernández</i>
17:30 - 18:00	COFFEE BREAK
18:00 - 18:40	FUNDING PROGRAMS AND SCIENTIFIC CAREER Izaskun Lacunza <i>International Projects, FECYT</i>
18:40 - 19:00	MENTORING PROGRAM SENC Jose A. Esteban <i>Coordinator of SENC Mentorship Program. CBMSO</i>
19:00 - 19:45	CHALLENGES AND STRATEGIES FOR RESEARCHER WOMEN Ana Bribian <i>Cajal Institute, Madrid</i>
19:45	CLOSING REMARKS Victor Borrell <i>Young Investigators Committee. Institute of Neuroscience, Alicante</i>

13:30-14:30 Lunch

Room
Conferencias
14:30-20:00

RGE

14:30 - 14:45	WELCOME AND INAUGURATION
14:45 - 16:00	ORAL PRESENTATIONS
16:00 - 16:30	BREAK
16:30 - 17:30	PLENARY LECTURE
17:45 - 18:45	ORAL PRESENTATIONS
19:00 - 20:00	ASSEMBLY

Wednesday: September 27th

Rooms

Sessions

Room Cámara
08:30-13:30

Young Neuroscientist Symposium

08:45 – 09:00

OPENING REMARKS
Víctor Borrell
Chair of Young Investigator Committee

09:00 – 09:45

KEYNOTE SPEAKER
Isabel Fariñas
Universidad de Valencia

09:45 – 10:00

COFFEE BREAK

10:00 – 10:20

SELECTED TALK #1

10:20 – 10:40

SELECTED TALK #2

10:40 – 11:00

SELECTED TALK #3

11:00 – 11:20

COFFEE BREAK

11:20 – 12:30

ROUND TABLE:

- Established investigator from SENC Mentorship Program
Jordi Alberch
- Tenure-track investigator (Ramón y Cajal)
Cristina Márquez
- Postdoc fellow returned to Spain
Dra. Cristina Nombela
- FECYT
Izaskum Lacunza

12:30 – 12:45

CLOSING REMARKS
Agnès Gruart, SENC President-elect

Room Conferencias
08:30-11:00

RGE: Premio Laia Alcain

Room Coloquios
08:30-16:00

SINC Meeting

- María Victoria Puig
Adrià Tauste
Thomas Gener
- 09:00 – 09:15** **WELCOME AND PRESENTATION OF THE STATE OF THE NETWORK**
MV. Puig
- 09:15 – 13:00** **SHORT CONTRIBUTED TALKS BY SINC²**
- 13:00 – 14:30** **LUNCH, SENC OPENING & WELCOME COCKTAIL**
- 14:30 – 15:45** **PLENARY LECTURE**
Dr. Miguel Valencia
Navarra University
- 15:45 – 16:00** **EVENT CLOSING, FUTURE OF SINC²**
A. Tauste
T. Gener

Cristal Room **NeuroArte y "From the Universe to the Brain"**
08:30-19:30

Exhibition Hall **SINC and RGE Posters**
08:30-16:00

Sala 2 **Pedro Ramón y Cajal**
08:30-13:30

Room **RENA Meeting**
Conferencias
11:00-13:30

13:30 – 15:00 **Opening & Welcome Cocktail**

Room Sinfonica **Symposium 1: Gene Expression in Learning and Memory**
16:00-18:30

Chair: Raul Andero
Co-Chair: Gleb Shumyatsky

ACTIVITY-DEPENDENT NUCLEAR TRANSLOCATION AND GENE TRANSCRIPTION DEFINE MEMORY STRENGTH

Gleb Shumyatsky
Rutgers University

INTERPLAY OF TRANSCRIPTIONAL AND EPIGENETIC MECHANISMS IN THE REGULATION OF ACTIVITY-DRIVEN GENE EXPRESSION

Ángel Barco
Instituto de Neurociencias (UMH-CSIC)

EPIGENOMIC CORRECTION OF DEFECTIVE PLASTICITY [AND MEMORY FORMATION] IN A MOUSE MODEL OF TAUOPATHY WITH AN ACETYLTRANSFERASE ACTIVATOR

Anne-Laurence Boutillier
UMR 7364 Unistra/CNRS, Université de Strasbourg

Regulation of memory retrieval by transcription factor BMAL1

Satoshi Kida
Tokyo University of Agriculture

COMPUTER SIMULATION OF DEEP-SUPERFICIAL CA1 HIPPOCAMPAL FUNCTION DURING THETA ACTIVITY

Andrea Claudia Navas-Olive, Manuel Valero, Liset Menendez de la Prida,

Instito Cajal CSIC

**Room Cámara
16:00-18:30**

Symposium 2: Controlling neuronal activity with light: fundamental and therapeutic applications

Chair: Pau Gorostiza

TBC

Eirini Papagiakoumou
CNRS & Université Paris Descartes

SHEDDING LIGHT ON A NOVEL SENSORY INTERFACE IN VERTEBRATES

Claire Wyart
Institut du Cerveau et de la Moelle Epiniere (Paris, France)

OPTOGENETICALLY RESTORED VISION IN A DYNAMIC VISUAL ENVIRONMENT

Sonja Kleinlogel

Bern University

TARGETED COVALENT PHOTOSWITCHES TO CONTROL ENDOGENOUS RECEPTORS AND CELLULAR EXCITABILITY WITH LIGHT

Mercè Izquierdo-Serra
University Pompeu Fabra

OPTICAL CONTROL OF SPONTANEOUS ELECTRICAL ACTIVITY IN GUINEA PIG CORNEAL COLD NERVE TERMINALS BY MEANS OF A CHEMICAL PHOTOSWITCH

David Ares-Suárez, Susana Quirce, Maria del Carmen Acosta, Carlos Belmonte, Juana Gallar, Victor Meseguer

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

**Room Sinfonica
18:30-19:30**

Presidential Lecture CARMEN SANDI

WHO WINS AND WHO LOSES? BRAIN ENERGY METABOLISM ON THE LINK BETWEEN STRESS, ANXIETY AND SOCIAL COMPETITION

Carmen Sandi
EPFL - Laboratory of Behavioral Genetics. Director, Brain Mind Institute

Thursday, 28th September

Rooms

Sessions

**Room Sinfónica
08:30-11:00**

Symposium 3: Molecular basis of adult neurogenesis: from epigenetic, to transcriptional and metabolic control

Chair: Aixa V. Morales and Helena Mira

MOLECULAR AND CELLULAR MECHANISMS OF STEM CELL QUIESCENCE IN THE MAMMALIAN BRAIN

Sebastian Jessberger
Professor of Neurosciences and Managing Director of the Brain Research Institute, University of Zurich

Verdon Taylor

Professor of Embryology and Stem Cell Biology in the Department of Biomedicine of the University of Basel

ROLE OF MITOCHONDRIA AND AUTOPHAGY IN ADULT HIPPOCAMPAL NEUROGENESIS

Dieter Chichung Lie

Professor of Molecular Medicine in the Institute of Biochemistry of the Friedrich-Alexander University, Erlangen-Nürnberg

GENOMIC IMPRINTING AND THE REGULATION OF POSTNATAL NEUROGENESIS

Sacri R. Ferron

Ramón y Cajal researcher at the Department of Cellular Biology of the University of Valencia

SOXD GENES IN THE CONTROL OF ADULT NEUROGENESIS

Lingling Li¹, Elena Calleja¹, Mar Muñiz¹, Alejandra C Quiroga¹, Marco A Cañizares¹, Silvia Nicolis³, Véronique Lefebvre², Aixa V Morales¹

Instituto Cajal, CSIC

Cleveland Clinic Lerner Research Institute, Cleveland, Ohio, USA

University of Milano-Bicocca, Milano, Italy

ON-SITE GENERATION OF THE ADULT NEURAL STEM CELL POPULATION IN THE POSTNATAL DENTATE GYRUS

Oier Pastor^{1,2}, José Ramón Pineda¹, Anja Urbach³, Juan Manuel Encinas^{1,2,4}

Achucarro Basque Center For Neuroscience

University of the Basque Country (UPV/EHU), Leioa, Spain

Universitätsklinikum Jena, Department of Neurology, Jena, Germany

Ikerbasque, The Basque Foundation for Science, Bilbao, Spain.

08:30-11:00

for efficient behavioral performance

Chair: Manuel Sánchez Malmierca and Livia de Hoz

SUBCORTICAL PROCESSING OF BACKGROUND STATISTICS

Livia de Hoz

*Max Planck Institute of Experimental Medicine,
Göttingen, Germany*

FUNCTIONAL MECHANISMS THAT MEDIATE PREDICTIVE CODING IN THE AUDITORY BRAIN

Manuel S. Malmierca

*Institute of Neuroscience of Castilla y León (INCYL),
University of Salamanca*

POPULATION STATE DYNAMICS IN MEDIAL PREMOTOR AREAS WORKS AS A MASTER CLOCK DURING DIFFERENT RHYTHMIC TAPPING BEHAVIORS IN THE MONKEY

Hugo Merchant

Institute of Neurobiology. Autonomous University of Mexico (UNAM). Queretaro México

EMERGENCE OF AN ADAPTIVE BEHAVIORAL COMMAND FOR SOUND LOCALIZATION

José Luis Peña

Dominick P. Purpura Department of Neuroscience. Albert Einstein College of Medicine. New York, USA

NEURAL RESPONSES TO RECOGNITION AND SEGREGATION OF SPEECH IN A FERRET COCKTAIL PARTY MODEL

Daniel Duque¹, Neha Joshi¹, Diego Elgueda¹, Jonathan B. Fritz¹, Shihab A. Shamma^{1,2}

*Neural Systems Lab, Institute for Systems Research,
University of Maryland, College Park, MD, USA*

Équipe Audition, Laboratoire des Systèmes Perceptifs, École Normale Supérieure, Paris, France

SENSORY EVOKED CORTICAL ASTROCYTE ACTIVITY IN V

Alfonso Araque¹, J. Aguilar², Justin Lines¹

Dept. of Neuroscience, University of Minnesota, Minneapolis,

USA.

Hospital Nacional De Paraplejicos. SESCAM. Toledo, Spain.

Room
Conferencias
08:30-11:00

Symposium 5: Advanced MRI contrasts to investigate brain inflammation and degeneration

Chair: Silvia de Santis

NEW MODELING AND EXPERIMENTAL FRAMEWORK TO CHARACTERIZE WATER DIFFUSION IN HUMAN BRAIN

Yaniv Assaf

Tel Aviv University, Tel Aviv, Israel

ADVANCED TRANSLATIONAL DIFFUSION MRI - AN EARLY WINDOW ON NEURODEGENERATIVE AND NEUROINFLAMMATORY DISEASES

Silvia De Santis

Instituto de Neurociencias, CSIC - UMH, San Juan de Alicante, Spain

IN VIVO IMAGING OF THE EFFECTS OF INFLAMMATION ON THE CNS

Mara Cercignani

University of Sussex

EFFECTS OF GENETIC AND LIFESTYLE RISK ON LIMBIC WHITE MATTER IN ASYMPTOMATIC INDIVIDUALS AT MIDLIFE

Claudia Metzler-Baddeley

CUBRIC, Cardiff University, Cardiff, UK

ALTERATIONS IN PREFRONTAL CONNECTIVITY IN SCHIZOPHRENIA ASSESSED USING DIFFUSION MAGNETIC RESONANCE IMAGING

Alba Lubeiro Juárez¹, Benjamín Cea-Cañas², Rodrigo de Luis-García³, Vicente Molina Rodríguez^{1,2,4,5}

School of Medicine, University of Valladolid, Valladolid, Spain.

Clinical Hospital of Valladolid, Valladolid,, Spain

Higher Technical School of Telecommunications Engineering, University of Valladolid, Valladolid, Spain.

Neurosciences Institute of Castilla y León (INCYL), University

of Salamanca, Spain

CIBERSAM (Biomedical Research Network in Mental Health;
Instituto de Salud Carlos III)

**THE CELLULAR COMPOSITION, ITS ORIGIN,
ORGANISATION AND DESTRIIBUTION IN THE MOUSE'S
CORPUS CALLOSUM**

Mariana Fil, Jose Manuel García-Verdugo, Vicente Herranz-
Pérez

*Instituto Cavanilles De Biodiversidad Y Biología Evolutiva,
Universitat De València*

**Cristal Room
08:30-18:30**

NeuroArte y "From the Universe to the Brain"

**Exihibition Hall
10:30-12:30**

Poster Session I

11:00-11:30

Coffee-Break

**Room
Conferencias
11:30-12:30**

Genomics/Bioinformatics workshop (Part I)

**Room Sinfónica
12:30-13:30**

Plenary Lecture I. TOM MRSIC-FLOGEL

Thomas Mrsic-Flogel
Biozentrum University of Basel

13:30-14-30

Lunch

**Room Coloquios
13:30-15:30**

Mujer y Neurociencia (sesión en español)

Laura López Mascaraque, Amanda Sierra, Diego
Clemente, Ana Bribian, Thomas Gener y Agnès Gruart

13:30 - 13:35

BIENVENIDA Y PRESENTACIÓN

13:35 - 14:05

BREVE TALLER SOBRE ELIMINACIÓN DE MITOS

14:05 - 15:00

**MESA DE DEBATE: "La brecha entre hombres y
mujeres en la Neurociencia no es un mito.
Búsqueda de soluciones para un problema muy**

real"

Dra. Agnès Gruart

Presidenta del Comité Mujer y Neurociencia de la SENC y Presidenta Electa de la SENC. Aportará datos de la participación por sexo en el campo de la Neurociencia

Dra. Vicenta Rodríguez Martín

Decana de la Facultad de Ciencias Sociales de la

Universidad de Castilla-La Mancha en Talavera de la Reina. Experta en Igualdad de Género, Empoderamiento y Liderazgo. Directora del Especialista Universitario en Igualdad: Intervención Social desde la Perspectiva de Género

**Room Sinfónica
14:30-17:00**

Symposium 6: Schwann cells in nerve function and repair

Chair: Hugo Cabedo

INSIGHTS FROM PERIPHERAL DEMYELINATING NEUROPATHY INTO THE ASSEMBLY AND FUNCTION OF THE NODE OF RANVIER

Peter Brophy

Centre for Neuroregeneration University of Edinburgh

TRANSCRIPTIONAL CONTROL OF GENE EXPRESSION IN SCHWANN CELL MYELINATION AND PATHOLOGY

Ashwin Woodhoo

CIC bioGUNE (Bilbao, Spain)

MYELIN CLEARANCE AND AUTOPHAGY AFTER PERIPHERAL NERVE INJURY

Jose A. Gomez-Sanchez

University College London

CLASS IIA HDACS LINK CAMP SIGNALING TO SCHWANN CELL PHENOTYPE

Hugo Cabedo

Instituto de Neurociencias UMH-CSIC and ISABIAL-FISABIO

MYELIN EXTRACELLULAR LEAFLET COMPACTION REQUIRES APOLIPOPROTEIN-D MEMBRANE MANAGEMENT BY OPTIMIZING LYSOSOMAL-

DEPENDENT RECYCLING AND GLYCOCALYX REMOVAL

Maria D. Ganfornina¹, Nadia García-Mateo¹, Raquel Pascua-Maestro¹, Alberto Pérez-Castellanos¹, Concepción Lillo², Diego Sánchez¹, ,

University of Valladolid-CSIC

University of Salamanca

HERC1 UBIQUITIN LIGASE IS ESSENTIAL FOR NORMAL AXON WRAPPING AND MYELIN SHEATH THICKNESS IN PERIPHERAL NERVOUS SYSTEM

M^a Angustias Roca Ceballos¹, Sara Bachiller², Irene García Domínguez¹, Eva M. Pérez Villegas², José Luis Rosas³, Lucía Tabares⁴, José Luis Venero¹, Jose Ángel Armengol² Ángel M. Carrión² Rocío Ruiz Laza^{1,2}

Facultad de Farmacia, Universidad de Sevilla, España

Universidad Pablo de Olavide, Sevilla, España

IDIBELL, Campus de Bellvitge, Universitat de Barcelona, E-08907, L'Hospitalet de Llobregat, Barcelona, España

Facultad de medicina, Universidad de Sevilla, España

**Room Cámara
14:30-17:00**

Symposium 7: In vivo electrophysiology and imaging to unveil neuronal network functioning

Chair: Rafael Fernandez-Chacon

DEEP-SUPERFICIAL ORGANIZATION OF HIPPOCAMPAL OSCILLATIONS

Liset Menéndez de la Prida

Laboratorio de Circuitos Neuronales. Instituto Cajal-CSIC

SPATIAL DISTRIBUTION OF NEURONAL SELECTIVITY TO WHISKER MOTION PATTERNS IN MOUSE BARREL CORTEX

Francisco J Martini

Laboratory of cellular and molecular mechanisms of brain wiring. Instituto de Neurociencias de Alicante

THE NEUROPHYSIOLOGICAL PUZZLE OF THE CORTICAL PLASTICITY AFTER A SPINAL CORD INJURY

Juan de los Reyes Aguilar

Grupo de Neurofisiología Experimental. Hospital Nacional de Paraplégicos. Servicio de Salud de Castilla-La Mancha (SESCAM), Toledo

CONNECTIVITY OF CORTICAL MICROCIRCUITRY REVEALED BY LARGE-SCALE 2-PHOTON IMAGING

Pablo García-Junco Clemente

Instituto de Biomedicina de Sevilla (IBiS), Hospital Universitario Virgen del Rocío-CSIC y Universidad de Sevilla

IN VIVO PHOTOMODULATION OF GABA AND GLYCINE RECEPTOR CHANNELS

Alexandre Gomila¹, Daniel Wutz², Galina Maleeva³, Xavier Rovira¹, Núria Camarero¹, Karin Rustler², Elvira Mukhametov^{3,4}, Burkhard Koenig² Piotr Bregestovski³ Pau Gorostiza^{1,5,6}

IBEC, Barcelona, Spain

University of Regensburg, Regensburg, Germany

Aix-Marseille University, Marseille, France

Kazan Federal University, Kazan, Russia

ICREA, Barcelona, Spain

CIBER-BBN, Barcelona, Spain

MEMORY UPDATE BUT NOT RECALL IS UNDER THE CONTROL OF PV-INTERNEURONS IN THE DENTATE GYRUS

Jose Maria Carames Tejedor, E. Pérez-Montoyo, L. Pérez-Cervera, R. García-Hernandez, S. Canals

Instituto de Neurociencias de Alicante (CSIC-UMH)

Room
Conferencias
14:30-17:00

Symposium 8: Neural Basis of Normal and Pathological Oscillations

Chair: Manuel Valero

OSCILLATORY MECHANISMS OF TEMPORAL AND SPATIAL CODING IN CORTICO-HIPPOCAMPAL CIRCUITS

Antonio Fernández-Ruiz
New York University - Neuroscience Institute, New York, USA

ABNORMAL WIRING OF DIFFERENT SUBPOPULATIONS OF INTERNEURONS DURING DEVELOPMENT GENERATES SPECIFIC OSCILLATORY AND COGNITIVE IMPAIRMENTS

Jorge R Brotons-Mas
Instituto de Neurociencias de Alicante, Alicante, Spain

CELL-TYPE SPECIFIC CONTRIBUTION TO HIPPOCAMPAL RHYTHMOPATHIES IN THE EPILEPTIC BRAIN

Manuel Valero
Instituto Cajal - CSIC, Madrid, Spain

GAMMA OSCILLATIONS ORGANIZE TOP-DOWN SIGNALLING TO HYPOTHALAMUS AND ENABLE FOOD SEEKING

Marta Carus-Cadavieco
Leibniz Institute for Molecular Pharmacology (FMP)/ NeuroCure Cluster of Excellence, Berlin, Germany

TRIADS OF SYNCHRONIZED THETA CYCLES BOOST CROSS-FREQUENCY COUPLING DURING NOVELTY EXPLORATION

Víctor J. López-Madrona¹, Ernesto Pereda², Claudio R. Mirasso³, Santiago Canals¹

Instituto de Neurociencias, CSIC-UMH, Sant Joan d'Alacant, Spain

Escuela Superior de Ingeniería y Tecnología, Universidad de La Laguna, Tenerife, Spain

Instituto de Física Interdisciplinar y Sistemas Complejos, CSIC-UIB, Palma de Mallorca, Spain

CROSS-FREQUENCY COUPLING IN THE HIPPOCAMPO-AMYGDALA-PREFRONTAL NETWORK FOLLOWING STIMULATION OF THE NUCLEUS INCERTUS

Hanna Vila Merkle¹, Alicia González Martínez¹, Ana Cervera Ferri¹, Sergio Martínez Bellver¹, Arantxa Blasco Serra¹, Eva Maria González Soler¹, Pau Celada², Joana Martínez Ricós¹, Vicent Teruel Martí¹

Facultat De Medicina I Odontologia, Universitat De València

*Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM),
Institut d'Investigacions Biomèdiques de Barcelona (IIBB-CSIC-IDIBAPS)*

Exhibition Hall
15:00-17:00

Poster Session II

Sala 2
15:30-18:30

Genomics/Bioinformatics workshop (Part II)

17:00-17:30

Coffee-Break

Room
Camara
17:30-19:30

Symposium 9: Basal Ganglia Circuits in Health and Disease.

Chair: Ramon Reig

**NEURONAL SUBSTRATES OF A DIVISION OF LABOR
IN THE EXTERNAL GLOBUS PALLIDUS**

Peter Magill

MRC-University of Oxford

**L-DOPA OPPOSITELY REGULATES SYNAPTIC
STRENGTH AND SPINE MORPHOLOGY IN D1 AND
D2 STRIATAL PROJECTION NEURONS IN
DYSKINESIA**

Rosario Moratalla

Instituto Cajal, CSIC

**STRIATAL MICROCIRCUITS UNDERLYING
SENSORIMOTOR FUNCTIONS**

Gilad Silberberg

Karolinska Institutet

**TARGET SELECTIVITY IN THE STRIATAL
MICROCIRCUITS**

Ramón Reig

Instituto de Neurociencias

**CANNABINOIDS DIFFERENTLY MODULATE THE
CORTICAL INFORMATION TRANSMISSION THROUGH
THE MEDIAL PREFRONTAL OR SENSORIMOTOR
CIRCUITS OF THE BASAL GANGLIA**

Amaia Gutierrez, Mario Antonazzo, Luisa Ugedo, Teresa Morera
Upv/ehu

OPTOGENETIC STIMULATION OF CORTICOSTRIATAL PATHWAY INHIBITS MOVEMENT INITIATION IN THE MOUSE: ROLE IN HUNTINGTON'S DISEASE

Mercè Masana^{1, 2,3}, Sara Fernández-García^{1, 2,3}, Jordi Alberch^{1, 2,3}

University Of Barcelona, Barcelona, Spain

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

Centro de Investigación Biomédica en Red sobre

Enfermedades Neurodegenerativas (CIBERNED), Spain

Room
Conferencias
17:30-19:30

From the Universe to the Brain

17:30-18:30

THE VOYAGE OF "EL GRECO"

Luis M. Martínez-Otero

Instituto de Neurociencias. CSIC-Universidad Miguel Hernández, Alicante

EL VIAJE DE "EL GRECO"

Luis M. Martinez-Otero

Instituto de Neurociencias. CSIC-Universidad Miguel Hernández, Alicante

18:30-19:30

BRAIN NETWORKS IN THE AESTHETIC APPRECIATION

Camilo José Cela-Conde

University of California, Irvine

REDES CEREBRALES EN LA APRECIACIÓN DE LA BELLEZA

Camilo Jose Cela-Conde

University of California, Irvine

Room Coloquios
17:30-18:30

Brainshake

Carmen Agustín y Juan Nàcher

Friday, 29th September

Rooms

Sessions

Room Sinfónica
08:30-11:00

Symposium 10: Neuroendocrine regulation of homeostasis

Chair: Francisco A. Martin

IT'S NOT THE RIGHT TIME: HOW THE BRAIN RESETS THE 'GROWTH' CLOCK AND DELAYS MATURATION

María Domínguez Castellano

Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas y Universidad Miguel HernandezCSIC-IDIBAPS

NOVEL NEUROENDOCRINE MECHANISMS FOR THE CONTROL OF PUBERTAL TRANSITION IN MAMMALS

Manuel Tena-Sempere

Physiology Section, Faculty of Medicine, University of Cordoba, and Maimonides Institute of Biomedical Research of Cordoba (IMIBIC)

HOW DOES THE BRAIN CONTROL PUBERTY?

Nuria M Romero

Institut de Biologie Valrose (CNRS-INSERM-U. Sophie-Antipolis), Nice, France

PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL IMPLICATIONS OF THYROID HORMONES TRANSMEMBRANE TRANSPORT IN THE CNS

Ana Guadaño Ferraz

Instituto de Investigaciones Biomédicas Alberto Sols (CSIC-UAM). Madrid, Spain

ATTENUATION OF PROGRESSIVE DISABILITY IN A MURINE MODEL OF MULTIPLE SCLEROSIS BY MANIPULATING GUT MICROBIOME

Leyre Mestre¹, Francisco Javier Carrillo-Salinas¹, Ana Feliú¹, Miriam Mecha¹, Carmen Espejo³, Xavier Montalbán³, Jose Carlos Alvarez-Cermeño², Luisa María Villar² Carmen Guaza¹

Grupo de Neuroinmunología, Instituto Cajal (CSIC), Madrid, Spain

Hospital Universitario Ramón y Cajal, Madrid, Spain

Cemcat, Hospital Valle de Hebron, Barcelona, Spain

REGULATION OF HIGH FAT DIET AND LEPTIN INDUCED THERMOGENESIS BY HYPOTHALAMIC CPT1C

Núria Casals Farré, Cristina Miralpeix, Rosalía Rodríguez-Rodríguez

Universitat Internacional De Catalunya

**Room Cámara
08:30-11:00**

Symposium 11: Neuron-Glia interactions: from molecules to behaviour

Chair: Gertrudis Perea

GLIAL ROLE IN SPIKE TIMING-DEPENDENT PLASTICITY

Antonio Rodríguez Moreno

Department of Physiology, Anatomy and Cell Biology, Universidad Pablo de Olavide. Sevilla, Spain

SEROTONIN NEUROMODULATION OF INHIBITORY SYNAPTIC PLASTICITY

Marco Fuenzalida

Centro de Neurobiología y Plasticidad Cerebral, Instituto de Fisiología, Facultad de Ciencias, Universidad de Valparaíso. Valparaíso, Chile

THE INVOLVEMENT OF ASTROCYTES IN COGNITIVE PROCESSING

João Filipe Oliveira

ICVS/3B's Associate Laboratory, School of Medicine, Braga, Portugal

ASTROCYTES AS KEY DRIVERS IN NMDA RECEPTOR-DEPENDENT LONG TERM DEPRESSION

Marta Navarrete

Centro de Biología Molecular "Severo Ochoa," Consejo Superior de Investigaciones Científicas (CSIC-UAM). Madrid, Spain

ALTERED MITOCHONDRIAL DYNAMICS IN APOE4 ASTROCYTES

Raquel Larramona¹, Cristina Cobos¹, Abel Eraso-Pichot¹, Arantxa Golbano¹, Carmen Menacho¹, Roser Masgrau¹, Elena Galea^{1, 2},

Institut de Neurociències, Departament de Bioquímica, Universitat Autònoma De Barcelona

ICREA

DOPAMINE REGULATES SYNAPTIC INPUTS TO THE NUCLEUS ACCUMBENS BY ACTIVATING ASTROCYTES

Ana Covelo, Michelle Corkrum, Ruth Quintana, Alfonso Araque
University Of Minnesota

Room
Conferencias
08:30-11:00

Symposium 12: Shared principles of animal behavior across species

Chair: Alex Gomez-Marin

COMPARATIVE ANALYSIS OF LOCOMOTION ACROSS TERRESTRIAL ANIMALS

Francesco Lacquaniti
University of Rome Tor Vergata and Scientific Institute Santa Lucia, Rome (Italy)

CAPTURING THE CONTINUOUS COMPLEXITY OF NATURAL MOVEMENT IN C. ELEGANS

Greg Stephens
VU University Amsterdam (The Netherlands)

NEURAL CIRCUITS FOR SPONTANEOUS NAVIGATION IN DROSOPHILA LARVAE

Julijana Gjorgjieva
Max Planck Institute for Brain Research (Germany)

SEARCHING BEHAVIOR IN COGNITIVE SYSTEMS: LINKING THEORY TO EMPIRICAL DATA

Frederic Bartumeus
Centre d'Estudis Avançats de Blanes, CSIC (Spain)

MAPS AND MODELS IN ANIMAL BEHAVIOUR

Thomas Akam
University of Oxford (UK)

REPRESENTATION MATTERS: QUANTITATIVE BEHAVIORAL VARIATION IN WILD WORM STRAINS

André Brown
MRC Imperial College London (UK)

Cristal Room
08:30-19:30

NeuroArte y "From the Universe to the Brain"

Exhibition Hall
10:00-12:30

Poster Session III

11:00-11:30

Coffee-Break

Room Coloquios
11:30-12:30

Content and Form: Cajal's Unique and Inventive Visual Language

Dawn Hunter
South Carolina University
Fullbright visitor to the Cajal Institute

Room Sinfonica
12:30-13:30

The EMBO Keynote Lecture PICO CARONI



Pico Caroni
Friedrich Miescher Institute For Biomedical Research

13:30-14:30

Lunch

Room Conferencias
14:30-15:30

Symposium LEICA

Room Coloquios

La SENC va al Colegio (sesión en español)

14:30-17:00

Pedro Grandes
 Fernando Giráldez
 Juan Nacher
 Eduardo Weruaga
 Rocío Leal Camapanrio
 Agnès Gruart
Comité de Formación de la SENC

Exhibition Hall
15:00-17:00

Poster Session IV

Room Camara
16:30-18:30

From the Universe to the Brain

16:30-17:30

THE ADAPTIVE VALUE OF ART

Ignacio Martínez
Universidad de Alcalá de Henares, Madrid

EL VALOR ADAPTATIVO DEL ARTE

Ignacio Martínez
Universidad de Alcalá de Henares, Madrid

17:30-18:30

FROM MOLECULAR NEUROBIOLOGY TO ART. A PERSONAL JOURNEY

Luis M. Gutiérrez
Instituto de Neurociencias. CSIC-Universidad Miguel Hernández, Alicante

DE LA NEUROBIOLOGÍA MOLECULAR AL ARTE. UN VIAJE PERSONAL

Luis M. Gutiérrez
Instituto de Neurociencias. CSIC-Universidad Miguel Hernández, Alicante

Room
Conferencias
16:00-17:00

Peer Review workshop

Juan Lerma
Editor-in-Chief of Neuroscience; Instituto de Neurociencias CSIC-UMH, Alicante

17:00-17:30

Coffe-Break

Room Sinfornica

Plenary Lecture III LIQUN LUO

17:30-18:30

GENETIC DISSECTION OF NEURAL CIRCUIT ASSEMBLY AND FUNCTION

Liqun Luo

Howard Hughes Medical Institute. Stanford University

Room Camara
18:30-19:30

Asamblea SENC

21:30

Gala Dinner

Saturday, 30th September

Rooms

Sessions

Room Sinfonica
08:00-11:00

Symposium 13: Psychosis as a disorder of neurodevelopment: insights from basic research to the clinic

Chair: Francesc Artigas

DISRUPTION OF CORTICAL ACTIVITY BY PSYCHOTOGENIC AGENTS

Francesc Artigas PhD

Institut d'Investigacions Biomèdiques de Barcelona, CSIC-IDIBAPS

PREDICTIVE-CODING MECHANISMS OF PSYCHOSIS

Guillermo Horga MD, PhD

Columbia University, New York, USA

THE EFFECTS OF PHYSICAL EXERCISE ON BRAIN FUNCTION: MENTAL HEALTH, COGNITION AND ACADEMIC PERFORMANCE. CROSS-SECTIONAL RESULTS OF THE ACTIVEBRAINS PROJECT

Irene Esteban-Cornejo, PhD

University of Granada

BIOMARKERS FOR PSYCHOTIC DISORDERS: TRANSLATING RESEARCH INTO CLINICAL UTILITY

Laura Pina-Camacho MD, PhD

Child and Adolescent Psychiatry Department, Hospital

General Universitario Gregorio Marañón, IISGM, School of Medicine, Universidad Complutense, CIBERSAM, Madrid, Spain

UNTANGLING HIPPOCAMPAL CHANGES IN A NEURODEVELOPMENTAL MODEL OF SCHIZOPHRENIA: THE ROLE OF ENRICHED ENVIRONMENT

Ane Murueta-Goyena, José Vicente Lafuente, Bengoetxea Harkaitz
Faculty of Medicine and Nursing. University of the Basque Country (UPV/EHU), Leioa (Bizkaia), Spain

**Room Camara
08:30-11:00**

Symposium 14: Intellectual Disability: New Opportunities for Understanding the Neurobiology and Advancing Therapy

Chair: Mara Dierssen

ALTERATIONS OF PREFRONTAL-HIPPOCAMPAL NEURAL NETWORK DYNAMICS UNDERLIE COGNITIVE IMPAIRMENT IN BEHAVING MICE MODELS OF INTELLECTUAL DISABILITY

Maria Victoria Puig Velasco
Hospital del Mar Medical Research Institute, Barcelona Biomedical Research Park

THE ENDOCANNABINOID SYSTEM AS A PHARMACOLOGICAL TARGET FOR INTELLECTUAL DISABILITY DISORDERS

Andrés Ozaita Mintegui
Universitat Pompeu Fabra

NEW PLASTICITY TARGETED THERAPIES FOR INTELLECTUAL DISABILITY

Mara Dierssen
Center for Genomic Regulation

TRACKING RESPONSE TO PHARMACOLOGICAL AND NON-PHARMACOLOGICAL INTERVENTIONS IN INTELLECTUAL DISABILITIES: LIMITATIONS AND FUTURE PERSPECTIVES

Rafael de la Torre Fornell
Hospital del Mar Medical Research Institute

Room
Conferencias
08:30-11:00

Symposium 15: Neural cell fate determinants during cortical development in health and disease

Chair: Ismael Galve-Roperh

GENETIC CONTROL OF NEUROGENESIS AND CEREBRAL CORTEX EXPANSION

Meuri del Camino De Juan Romero
Instituto de Neurociencias, Alicante

NEURODEVELOPMENTAL CANNABINOID SIGNALING IN CORTICAL DEVELOPMENT

Ismael Galve-Roperh
Complutense University-CIBERNED

MODELING NEURONAL MIGRATION DISORDERS WITH HUMAN DERIVED CEREBRAL ORGANIDS

Silvia Cappello
Max Planck Institute for Psychiatry

NEUROPATHOLOGICAL BASIS OF EPILEPSY IN CORTICAL DEVELOPMENT DISORDERS AND THERAPEUTIC VISTAS

Alfonso Represa
INMED, Institut de Neurobiologie de la Méditerranée

CUX1 ENABLES CORPUS CALLOSAL CONNECTIONS OF LAYER II-III NEURONS BY REGULATING KV1-DEPENDENT FIRING

Marta Nieto López
Cnb-Csic

LOSS OF CBP INTERFERES WITH SRF-DEPENDENT NEURONAL GROWTH AND SYNAPTIC MATURATION.

Beatriz Del Blanco¹, Deisy Guiretti¹, Romana Tomasoni^{1, 2},
Michal Lipinski¹, Maria Teresa López Cascales¹, Marilyn Scandaglia¹, Román Olivares¹, Angel Barco¹

Instituto de Neurociencias (UMH-CSIC), Molecular Neurobiology, San Juan de Alicante, Spain

IRCCS Humanitas Clinical and Research Center, Manzoni, Milan, Italy

Cristal Room
08:30-11:00

Neuroarte "From the Universe to the Brain"

11:00-11:30

Coffe-Break

Room Camara
11:30-12:30

Olympus Award TALK

Exhibition Hal
11:30-13:30

Poster Session V

Room
Conferencias
12:00-13:30

Integration of multimodal platforms in brain studies. A review

NEUROIMAGING. OPEN DATASETS. AI AND NEW TRENDS. SHARE SCIENCE AND GOOD PRACTICES. EXAMPLES.

José P. Manzano

Researcher at CNIC and involved in some Hackathons of Medical Technology

Austin Benn

PhD Student at CNIC

13:30-14:30

Lunch

Room
Conferencias
13:30-14:30

Neurociencias y Libre Albedrío (sesión en español)

INTRODUCCIÓN AL TEMA DEL LIBRE ALBEDRÍO Y EL DERECHO PENAL

Fernando de Castro

Instituto Cajal-CSIC, Madrid

NEUROCIENCIA Y TOMA DECISIONES

José M. Delgado García

Catedrático Emérito de la Universidad Pablo de Olavide, Sevilla

CULPABILIDAD, RESPONSABILIDAD Y PSIQUIATRÍA

José María Valls

*Psiquiatra y Secretario de la Fundación Castilla del Pino,
Hospital Los Morales, Córdoba*

CULPABILIDAD Y DERECHO PENAL

Eduardo Demetrio Crespo
*Catedrático de Derecho Penal de la Universidad de
Castilla-La Mancha*

**Room Coloquios
Exhibition Hall
13:30-14:30**

Meet the Neuroscience centers

**Room Sinfónica
14:30-14:45**

Oral Talks and Posters award ceremony

**Room Sinfónica
14:45-14:45**

Plenary Lecture IV ISABEL PEREZ-OTAÑO

Isabel Perez-Otaño
Instituto de Neurociencias de Alicante