

Tuesday: September 22nd

Rooms	Sessions
09:00 – 18:00	
Room 1	Professional Development Session Mara Dierssen <i>Professor at Center for Genomic Regulation, SENC President</i> COACHING & SELF-PROMOTION Amber Wigmore <i>Director of Career Advising, IE Business School</i> COMMUNICATION SKILLS AND PUBLIC SPEAKING Javier Bernad <i>Professor of Communications, IE Business School. Founder of Speak & Span</i> SCIENTIFIC WRITING AND PUBLISHING David del Álamo <i>Editor EMBO Journal</i> ENTREPRENEURSHIP, MOVING AWAY FROM ACADEMIA Manuel Pérez-Alonso <i>President of the Spanish Association of Entrepreneurs in Science</i> POPULAR SCIENCE César Tomé <i>Editor for Mapping Ignorance</i> INSPIRATIONS FROM EXPERIENCE. GETTING BETTER AND NOT BITTER Raquel Rodríguez <i>Director of Neuroscience Institute of Salamanca</i> INSPIRATIONS FROM THE YOUTH. GETTING STARTED AND GETTING AHEAD Víctor Borrell <i>Group leader at Neuroscience Institute of Alicante, and SENC Young Investigator Committee member</i>



09:00 – 19:00

Room 2

SEIC Meeting

09:00 – 18:00

Room 3

RTA Meeting

16:00 – 18:00

Room 4

RGE Meeting

14:00 – 19:00

Posters Area

Posters RGE/ SEIC/ RTA

Wednesday: September 23rd

Rooms	Sessions
08:30 – 13:00	
Room 1	Young Investigators Symposium
08:45-09:00	OPENING REMARKS José A. Esteban <i>Chair of SENC Young Investigator Committee</i>
09:00 – 09:45	KEYNOTE SPEAKER Nuria Sebastián Gallés <i>Univ. Pompeu Fabra</i>
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	YOUNG INVESTIGATOR AWARD IN BASIC NEUROSCIENCE
11:20 – 11:40	LAIA ACARÍN YOUNG INVESTIGATOR AWARD
11:40 – 12:00	COFFEE BREAK
12:00 – 12:45	ROUND TABLE DE POSTDOC A PI, ¿SUEÑO O REALIDAD? MECANISMOS Y HERRAMIENTAS Albert Quintana <i>Tenure-track investigator -Ramón y Cajal</i> Raúl Delgado <i>Postdoc fellow returning to Spain</i> Cristina Nombela <i>Postdoc fellow returning to Spain; challenges for women in science</i> Fernando Cossío <i>Univ. País Vasco, Director Científico Ikerbasque</i> Nuria Sebastián Gallés <i>Univ. Pompeu Fabra, Vicepresidenta ERC</i> María Luisa Poncela <i>Secretaria General de Ciencia y Tecnología</i>

11:40-12:00 h. CLOSING REMARKS

Jordi Alberch
SENC President-elect

Room 2 SEIC Meeting

Room 3 RTA Meeting

Room 4 Imagen Meeting

Posters Area Posters RGE/SEIC/RT

08:30 – 12:00

Room 5 Club Pedro Ramón y Cajal

14:30 – 16:30

**Room 1 Symposium 1
GETTING TO KNOW CURRENT EUROPEAN NEUROSCIENCE:
FROM MOLECULAR TO CLINICAL RESEARCH IN POLAND**

Chair Jacek Jaworski
*Laboratory of Molecular and Cellular Neurobiology. The International
Institute of Molecular and Cell Biology. Warsaw.*

**Speakers MOLECULAR ASPECTS OF MTOR INVOLVEMENT IN
DENDRITIC ARBOR DEVELOPMENT**
Jacek Jaworski
*Laboratory of Molecular and Cellular Neurobiology. The International
Institute of Molecular and Cell Biology. Warsaw.*

**HOW INTERPLAY BETWEEN DOPAMINE AND GLUTAMATE
SIGNALING CONTROLS POSITIVE REINFORCEMENT**

Jan Rodriguez Parkitna
*Molecular neuropharmacology. Institute of Pharmacology. Polish
Academy of Sciences. Kraków.*

SOCIALLY TRANSFERRED EMOTIONS

Ewelina Knapska
Neurobiology. Nencki Institute of Experimental Biology. Warsaw.

MR SPECTROSCOPIC NEUROIMAGING IN HUMAN STROKE

Bartosz Karaszewski

Department of Neurology. Medical University of Gdansk.

Room 2

Symposium 2

NEUROBIOLOGY OF THE CANNABINOID SYSTEM

Chair

Manuel Guzmán

Presidente de la Sociedad Española de Investigación sobre Cannabinoides, SEIC.

Speakers

TBA

TBA

BIASED AGONISM AT CANNABINOID CB1 RECEPTORS

Michelle Glass

Department of Pharmacology and Clinical Pharmacology, Centre for Brain Research, University of Auckland, New Zealand.

CELLULAR AND SUBCELLULAR ROLES OF CANNABINOID CB1 RECEPTORS IN THE BRAIN

Giovanni Marsicano

NeuroCentre Magendie, U862 INSERM Université Bordeaux, 33077 Bordeaux, France.

Room 3

Symposium 3

TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION (TSMS): A PARADIGM SHIFT?

Chairs:

Guglielmo Foffani

CINAC, HM Puerta del Sur, Hospitales de Madrid. Hospital Nacional de Paraplégicos, Toledo. Spain.

Antonio Oliviero

Neurek S.L. Toledo, Spain.

Speakers

STATIC MAGNETIC FIELD STIMULATION OF THE VISUAL CORTEX IN ANIMALS

Casto Rivadulla

University of Coruña, Spain.

STATIC MAGNETIC FIELDS IN COGNITIVE NEUROSCIENCE: TSMS AND FMRI.

Bryan A. Strange

CTB, Universidad Politécnica de Madrid. Spain.

COULD TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION BE USED TO TREAT PATIENTS?

Guglielmo Foffani

*CINAC, HM Puerta del Sur, Hospitales de Madrid (Spain) and
Hospital Nacional de Paraplégicos, Toledo (Spain)*

TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION IN THE CONTEXT OF PORTABLE NON-INVASIVE NEUROMODULATION TECHNIQUES

Walter Paulus

Göttingen University Medical School (Germany)

Room 4

Symposium 4

CELL CYCLE REGULATION IN BRAIN DEVELOPEMENT AND PATHOLOGIES

Chairs

Francisco J. Tejedor

Instituto de Neurociencias, CSIC-UMH, Alicante, España.

José M. Frade

Instituto Cajal (CSIC), Madrid. España.

Speakers:

MNB/DYRK1A: INTEGRATING SIGNALING TO REGULATE THE PROLIFERATION/DIFFERENTIATION BALANCE IN BRAIN DEVELOPMENT. IMPLICATIONS FOR DOWN SYNDROME

Francisco J. Tejedor

Instituto de Neurociencias, CSIC-UMH, Alicante, España.

IMPLICATIONS OF THE CELL CYCLE MACHINERY IN ASYMMETRIC CELL DIVISION OF NEURAL PROGENITORS AND CANCER

Marcos Malumbres

Spanish National Cancer Research Centre (CNIO), Madrid, España.

NEURONAL TETRAPLOIDY DURING DEVELOPMENT AND IN ALZHEIMER'S DISEASE

José María Frade

Instituto Cajal (CSIC), Madrid, España.

CONSEQUENCES OF CENTROSOME DYSFUNCTION IN BRAIN DEVELOPMENT

Renata Basto

UMR144, CNRS- Institut Curie, Paris, France.

16:30 – 18:30

Room 2

SEIC General Assembly

16:30 – 18:00

Posters Area

Posters Session 1

18:30 – 19:30

Chair

Presidential Lecture

THE MAKING, KEEPING AND LOSING OF MEMORY

Richard Morris

19:30 – 20:30

ROE ACTIVITY

Thursday: September 24th

Rooms	Sessions
08:30 – 09:15	
Room 1	Symposium 5
	GENE THERAPY APPROACHES FOR PARKINSON'S DISEASE
Chair	José Luis Lanciego
	<i>Fundación para la Investigación Médica Aplicada (FIMA) y Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED)</i>
Speakers	GENE THERAPY APPROACHES FOR PARKINSON'S DISEASE: NEW ARRIVALS
	José Luis Lanciego
	<i>Fundación para la Investigación Médica Aplicada (FIMA) y Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED)</i>
	SELECTIVE ELIMINATION OF BASAL GANGLIA PATHWAYS IN ANIMAL MODELS OF PD
	Kazuto Kobayashi
	<i>Department of Molecular Genetics, Institute of Biomedical Sciences, Fukushima Medical University School of Medicine, Fukushima 960-1295, Japan.</i>
	DOPAMINERGIC PATHWAY RECONSTRUCTION BY RHEB-INDUCED AXON REGENERATION
	Robert E. Burke
	<i>Department of Neurology, Columbia University, New York, NY, USA.</i>
	IN VIVO NEURONAL CELL REPROGRAMMING FOR A NEW REGENERATIVE APPROACH IN PARKINSON'S DISEASE
	Vania Broccoli
	<i>IRCCS-Ospedale San Raffaele s.r.l., Milan, Italy.</i>
Room 2	Symposium 6
	IMMUNE SYSTEM CONTROL OF BRAIN DAMAGE AND REPAIR
Chair	Diego Clemente, PhD
	<i>Grupo de Neurobiología del Desarrollo.GNDe. National Hospital for Paraplegics. Toledo, Spain.</i>
Speakers	IMMUNE CELLS IN STROKE: BRAIN BENEFITS AND RISKS
	Anna M. Planas, PhD

*Institute for Biomedical Research of Barcelona (IIBB)-CSIC,
IDIBAPS. Barcelona, Spain.*

**MANIPULATION OF EXTRA-CNS NMDA RECEPTORS TO
REDUCE CNS DAMAGE: A NOVEL STRATEGY FOR MULTIPLE
SCLEROSIS**

Fabian Docagne, PhD
Inserm – Centre Cyceron, Caen, France.

**MODULATION OF MICROGLIA PHENOTYPE UNDER
NEUROPATHOLOGICAL CONDITIONS AS A NOVEL
THERAPEUTIC STRATEGY**

Bozena Kaminska, PhD
*Laboratory of Molecular Neurobiology, Nencki Institute, Warsaw,
Poland.*

**MYELOID-DERIVED SUPPRESSOR CELLS: THE MISSING LINK
BETWEEN NEURAL DAMAGE AND REPAIR IN MULTIPLE
SCLEROSIS**

Diego Clemente, PhD
*Grupo de Neurobiología del Desarrollo.GNDe. National Hospital for
Paraplegics. Toledo, Spain.*

Room 3

**Symposium 7
THE BRAIN MECHANISMS DECISION MAKING**

Chairs

Jaime de la Rocha
*l'Institut d'Investigacions Biomèdiques August Pi i Sunyer
(IDIBAPS). Barcelona, Spain.*
Albert Compte

Speakers

DECISION MAKING IN COLLECTIVES

Gonzalo de Polavieja
Champlimaud Foundation, Lisbon. Portugal.

**NAVIGATIONAL DECISIONS DURING CHEMOTAXIS IN
DROSOPHILA**

Matthieu Louis
Centre de Recerca Genòmica (CRG), Barcelona, Spain.

**ENCODING OF BEHAVIORALLY RELEVANT QUANTITIES IN
ORBITOFRONTAL CORTEX**

Rubén Moreno
Fundació Sant Joan de Déu, Barcelona, Spain.

EMBODIED CORRELATES OF PERCEPTUAL DECISION PROCESSES

Alfonso Renart

Champalimaud Foundation, Lisbon. Portugal.

Room 3

Symposium 8

NG2 CELLS: NEW STARS ON BRAIN STAGE

Chair

Laura Lopez-Mascaraque

Instituto Cajal-CSIC. Madrid, Spain.

Ana Bribian

Laboratorio De Biotecnología Celular Y Molecular. Spain.

Speakers

NG2 CELLS IN ADAPTIVE MYELINATION AND LEARNING DURING ADULthood

William D. Richardson

University College London, UK.

NG2 GLIA AND THEIR FUNCTION IN VIVO: LESSONS FROM NG2-CREERT2 KNOCKIN MICE

Frank Kirchhoff

Department of Molecular Physiology, University of Saarland, Homburg, Germany.

NG2-GLIA: A JOURNEY THROUGH THEIR ROLE IN THE ADULT BRAIN

Leda Dimou-Rörentrop

Physiological Genomics, LMU Munich, Germany.

INTRINSIC AND EXTRINSIC MODULATION OF EARLY PHENOTYPIC ASYMMETRY IN OLIGODENDROCYTE PROGENITOR CELLS

Annalisa Buffo

University of Turin, Neuroscience Institute of Turin (NIT), Neuroscience Institute Cavalieri Ottolenghi (NICO), Italy.

10:30 – 12:30

Posters Area

Posters Session 2

12:30 – 13:30

Room 1

Plenary Lecture (EBBS)

UNDERSTANDING AMNESIA: NEW INSIGHTS INTO OLD PLACES

John Aggleton

13:30 – 17:00

Room 1 **Industry Workshop**

Room 2 **Industry Workshop**

Room 3 **Industry Workshop**

Room 4 **Industry Workshop**

15:00 – 17:00

Posters Area **Posters Session 3**

17:00 – 18:00

Room 1 **Olympus' Award**

18:00 – 19:00

Room 1 **Honorary Lecture**
Miguel Marin- Padilla

19:00 – 20:30

Room 1 **SENC's Assembly**

20:30

SOCIAL NETWORKING (NEUROARTE)

Friday: September 25th

Rooms	Sessions
08:30 – 10:30	
Room 1 Chair Speakers	Symposium 9 PROGRAMMING AND REPROGRAMMING BRAIN CELL IDENTITY Guillermina López-Bendito <i>Instituto de Neurociencias, CSIC-UMH, Alicante, Spain.</i> REPROGRAMMING THALAMIC CELLS FOR SENSORY CIRCUIT RESTORATION Guillermina López-Bendito <i>Instituto de Neurociencias, CSIC-UMH, Alicante, Spain.</i> BRAINS IN METAMORPHOSIS: CONVERTING NG2 GLIA INTO INDUCED NEURONS IN VIVO Benedikt Berninger <i>Johannes Gutenberg University Mainz, Germany.</i> REPROGRAMMING NEURONS TO CHANGE GLIA Paola Arlotta <i>Harvard University. MA, USA.</i> FROM PLURIPOTENT STEM CELLS TO CORTICAL CIRCUITS Pierre Vanderhaeghen <i>ULB Neuroscience Institute (UNI), Belgium.</i>
Room 2 Chairs Speakers	Symposium 10 CONNECTOMICS: NON-INVASIVE WINDOWS INTO BRAIN COMPLEXITY Dr. Santiago Canals <i>Instituto de Neurociencias, CSIC – UMH, Spain.</i> Dr. David Moratal <i>Center for Biomaterials and Tissue Engineering, Universitat Politècnica de València, Spain.</i> RESTING STATE FMRI IN HEALTH AND DISEASE MODELS Annemie Van Der Linden <i>University of Antwerp, Belgium.</i> HIGH RESOLUTION FMRI & FUNCTIONAL CONNECTIVITY

Jozien Goense

School of Psychology, University of Glasgow. Glasgow, UK.

MAPPING THE CONNECTIONAL ARCHITECTURE OF THE MOUSE BRAIN WITH FMRI

Alessandro Gozzi

Istituto Italiano di Tecnologia, Centre for Neuroscience and Cognitive Sciences, Italy.

BRAIN NETWORK HOMEOSTASIS INDUCED BY VOLUNTARY ALCOHOL CONSUMPTION IN RATS

David Moratal

Center for Biomaterials and Tissue Engineering, Universitat Politècnica de València, Spain.

Room 3

Symposium 11

NOVEL PERSPECTIVES IN MOLECULAR AND CELLULAR

Chairs

Angel Barco

(IN, UMH-CSIC)

Shira Knafo

Universidad País Vasco/ Euskal Herriko Unibertsitatea

Speakers

READING THE CODE: EPIGENETIC MECHANISMS IN COGNITIVE DISEASES

Andre Fischer

University of Gottingen – DZNE. Germany.

AGE-ASSOCIATED CHANGES IN PLASMA MEMBRANE CHOLESTEROL CONTRIBUTE TO THE COGNITIVE DEFICITS

Carlos Dotti

Centro de Biología Molecular "Severo Ochoa" (UAM-CSIC). Spain.

CAMP REGULATION OF PHOSPHATASE STEP-61 DURING SYNAPTIC PLASTICITY AND MEMORY

Carlos Sindreu Balet

Universidad de Barcelona, Spain.

MTOR-DEPENDENT PLASTICITY AND MEMORY IN TRISOMY 21

Maria Luz Montesinos

Universidad de Sevilla, Spain.

Room 4

Symposium 12

THE ROLE OF MICROGLIAL CELLS IN PATHOLOGY

Chair

Helmut Kettenmann

Max-Delbrück Center for Molecular Medicine. Berlin, Germany.

Speakers

MICROGLIA CONTROL GLIOMA PROGRESSION

Helmut Kettenmann

Max-Delbrück Center for Molecular Medicine. Berlin, Germany.

INNATE IMMUNE ACTIVATION IN ALZHEIMER'S DISEASE

Michael Heneka

University of Bonn, Germany.

TBC

Erik Boddeke

University of Groningen, Netherlands.

THE MYELOID SIDE OF THE BRAIN

Marco Prinz

University of Freiburg. Germany.

10:30 – 12:30

Posters Area

Posters Session 4

12:30 – 13:30

Room 1

Plenary Lecture (Garcia Austt)

LOCAL CONTROL AT SYNAPSES: TRANSCRIPTOMES AND PROTEOMES

Erin Schuman

13:30 – 15:00

Room 2

CARE España Meeting (lunch)

Antonio Armario

Juan Lerma

Director Del Instituto De Neurociencias De Alicante CSIC. Alicante, España.

Françoise Lachapelle

Bea de L'inserm. Paris, France.

Marta Tafalla

Room 3

European Neuroscience Schools Meeting (lunch)

15:30 – 17:00

Posters Area

Posters Session 5

17:00 – 18:00

Room 2

Plenary Lecture

TOWARDS A GLOBAL MODEL OF BRAIN ACTIVITY: LESSONS FROM THE HUMAN CONNECTOME

Gustavo Deco

17:00 – 18:00

Room 1

Symposium 13

WHEN BASIC CELLULAR REGULATORY MECHANISMS BECOME ABERRANT: Four Rare Diseases affecting Central Nervous System

Chairs

Ricardo Gómez García, PhD

Depto. de Neurobiología funcional y de sistemas, Instituto Cajal, CSIC. Madrid, España.

Raúl Estévez Povedano, PhD

Depto. de Ciencias Fisiológicas II, Facultad de Medicina, Universitat de Barcelona. Barcelona, España.

Speakers

GLUTAMATERGIC ASTROCYTE-NEURON SIGNALING IS DISRUPTED IN FRAGILE X SYNDROME

Ricardo Gómez García

Depto. de Neurobiología funcional y de sistemas, Instituto Cajal, CSIC. Madrid, España.

SPHINGOLIPID-INDUCED SYNAPTIC ALTERATIONS IN NIEMANN PICK DISEASE TYPE A

M^a Dolores Ledesma Muñoz

Depto. de Neurobiología Molecular, Centro de Biología Molecular Severo Ochoa, CSIC. Madrid, España.

DEFECTS IN ASTROCYTIC VOLUME REGULATION AND POTASSIUM SYPHONING IN MLC DISEASE

Raúl Estévez Povedano

Depto. de Ciencias Fisiológicas II, Facultad de Medicina, Universitat de Barcelona. Barcelona, España.

STRUCTURAL MECHANISM OF LAFORIN FUNCTION IN GLYCOGEN DEPHOSPHORYLATION AND LAFORA DISEASE

Matthew S. Gentry

Dept. of Molecular and Cellular Biochemistry, Center for Structural Biology, University of Kentucky Lexington, USA.

Room 2

Symposium 14

BRAIN DYNAMICS: FROM SINGLE CELL TO PERCEPTION VIA LOCAL CIRCUITS

Chair

Ilan Lampl

Speakers

María Victoria Sanchez lives
The Weizmann Institute, Israel.

ADRENERGIC MODULATION OF DENDRITIC HCN CHANNELS IN LAYER 5 PYRAMIDAL NEURONS

Michael London
The Hebrew University of Jerusalem. Israel.

HOW DOES THE RETINA COMPUTE THE DIRECTION OF MOTION? AN INSIGHT FROM A NOVEL FORM OF ADAPTATION

Michal Rivlin
The Weizmann Institute

CODING OF CONCENTRATION AND ITS' GRADIENT IN OLFACTORY BULB: ORIGINS OF OLFACTORY "WHAT" AND "WHERE" SYSTEMS

Roman Shusterman
University of Haifa

HOW ARE HEXAGONS FORMED IN GRID CELLS?

Dori Derdikman
Technion

Room 3

Symposium 15

EXTRACELLULAR VESICLES IN NEURON-GLIA COMMUNICATION

Chair

Diego Sánchez
Universidad De Valladolid. Valladolid, Spain.

María D. Ganfornina

Speakers

EXTRACELLULAR VESICLES IN HEALTH AND DISEASE

Juan Manuel Falcón Pérez
Metabolomics Unit, CIC bioGUNE, CIBERehd, Derio; IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

THE ROLE OF EVS IN OLIGODENDROCYTE-NEURON COMMUNICATION

Eva-Marie Krämer-Albers

Department of Molecular Cell Biology, and Focus Programme of Translational Neuroscience, University of Mainz. Mainz, Germany.

THE ROLE OF EVS IN SCHWANN CELL-NEURON COMMUNICATION

Felipe A. Court

Millennium Nucleus for Regenerative Biology, Faculty of Biological Sciences, Pontificia Universidad Catolica de Chile, Santiago, Chile.

THE ROLE OF EVS IN NEURONAL FUNCTION

Lydia Álvarez-Erviti

Centro de Investigación Biomédica de La Rioja (CIBIR), Logroño, Spain.

Room 4

Symposium 16

BUILDING AN EFFICIENT VISUAL SYSTEM

Chair

Eloisa Herrera

Instituto de Neurociencias de Alicante, España

Co-Chair

Fernando Casares

Centro de Biología del Desarrollo. Sevilla, España.

Speakers

OPTIC CUP MORPHOGENESIS: A MODEL TO STUDY THE CELLULAR AND MOLECULAR BASES OF BASAL CONSTRICTION

Juan Ramón Martínez – Morales

Centro de Biología del Desarrollo. Sevilla, Spain.

SECRETED FRIZZLED RELATED PROTEINS MODULATE PATHFINDING AND FASCICULATION OF MOUSE RETINA GANGLION CELL AXONS BY DIRECT AND INDIRECT MECHANISMS

Paola Bovolenta

Centro de Biología Molecular Severo Ochoa. Madrid, Spain.

TBC

Eloisa Herrera

Instituto de Neurociencias de Alicante, España.

DECONSTRUCTING THE EARLY VISUAL PATHWAY: FROM MOSAICS TO MAPS.

Luis M. Martínez-Otero

Instituto de Neurociencias de Alicante, España.