19th MEETING

3-5 November 2021

Lleida

SCIENTIFIC PROGRAMME

SPANISH SOCIETY OF NEUROSCIENCE

SOCIEDAD ESPAÑOLA DE NEUROCIENCIA

www.congresosenc.es

senc2021@kenes.com

INDEX

SENC COMMITTEES

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GENERAL INFORMATION

VENUE

La Llotja, Palau de Congresos
Address: Av. de Tortosa, 6-8
25005 Lleida
Tel. 973 22 11 55
www.lallotjadelleida.com

TECHNICAL SECRETARIAT

KENES GROUP

KENES SPAIN
Avda. Institución Libre de Enseñanza, 2, planta 4ª
28037 Madrid.
Tel: +34 91 361 26 00
senc2021@kenes.com
https://congresosenc.es/

LANGUAGE

The official language of the congress is English. No simultaneous translation will be provided.

WIFI

WIFI: **SENC CONGRESS**
Password: **SENC2021**

SCHEDULE

	TECHNICAL SECRETARIAT	COMMERCIAL EXHIBITION
November 3rd	08:00 - 20:00	09:00 - 20:00
November 4th	08:30 - 20:30	09:00 - 20:30
November 5th	08:30 - 18:30	09:00 - 18:30

POSTER SESSIONS

All posters will be presented in paper format.
Posters should be 90 cm in length and 120 cm in height, and they should be displayed by the authors in the poster area in the slot corresponding to the code number provided in the confirmation letter.
Presenting authors are expected to be in front of their posters on the day of the block session they have been assigned, (during the poster session slot) as follows:

Poster Session 1: Wednesday, 3rd November, from 15:30 to 19:00.
Authors with poster numbers PS1-01 to PS1-88
Poster Session 2: Thursday, 4th November, from 09:00 to 12:30.
Authors with poster numbers PS2-01 to PS2-89
Poster Session 3: Thursday, 4th November, from 15:00 to 18:30.
Authors with poster numbers PS3-01 to PS3-94
Poster Session 4: Friday, 5th November, from 09:00 to 12:30.
Authors with poster numbers PS4-01 to PS4-95
Poster Session 5: Friday, 5th November, from 15:00 to 18:30.
Authors with poster numbers PS5-01 to PS5-96

Setting-up and taking down times:

- The posters should be fixed on the corresponding board half an hour before their poster session begins and must be removed on at latest, half an hour later of the end of their corresponding poster session.
- Fixing tape to set up the posters will be provided by the organization.
- The Technical Secretariat is not responsible for those posters that will not be removed at the end of the Congress.

CONGRESS BADGES

All participants, accompanying persons and exhibitors must wear the Congress identification badges. Entrance to meeting rooms, posters and exhibition area will not be allowed to any person without badge.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be sent by email to each delegate at the end of the congress. For special requirements, please ask to the Technical Secretariat.

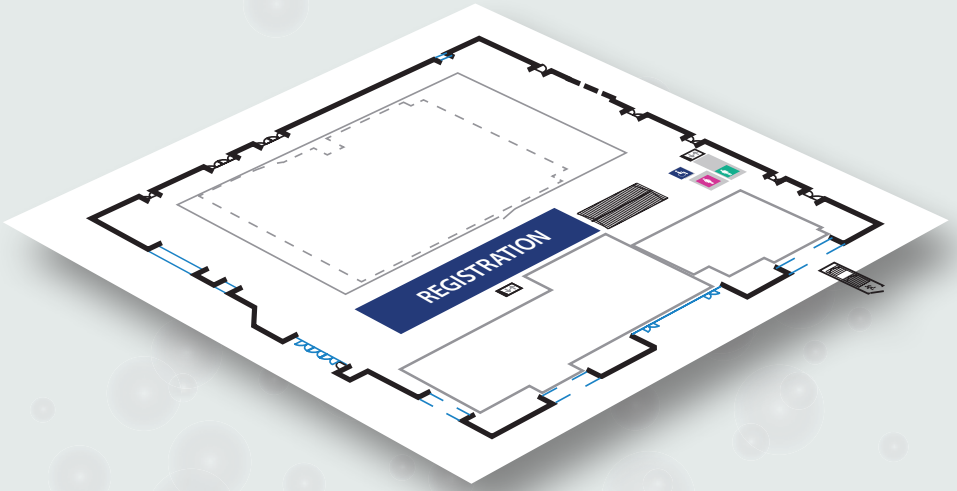
LIABILITY

Upon registration, participants agree that neither the Organizing Committee nor the Technical Secretariat assume any liability. Participants should, therefore, organize their own health and travel insurance.

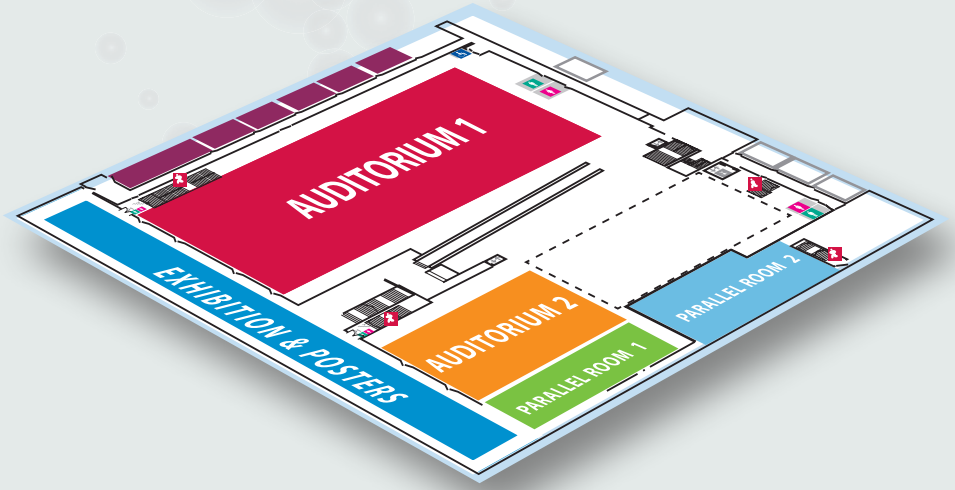
FLOOR PLANS

- **Floor 0** – Technical Secretariat
- **Floor 2** – Rooms, Exhibition Hall, Posters display, Neuroart Exhibition, coffee breaks, etc.

GROUND FLOOR PLAN



SECOND FLOOR PLAN



COVID 19 PROTOCOL

The health and safety of every attendee is our main concern during the 19th Meeting of the Spanish Society of Neuroscience – SENC2021. The following instructions will ensure everyone's safety. Please make sure you read carefully and follow these rules. Thank you very much for your cooperation.

CERTIFICATE OR TEST PROOF

Each attendee will be required to **present at the entrance the certificate of vaccination, or the proof of a negative test carried out in the 72 hours prior to arrival** at the congress.

MASKS

The use of a mask will be mandatory during the entire Meeting. Please make sure both your mouth and nose are covered at all times.

SOCIAL DISTANCING

Please make sure you respect the social distancing recommended by the Health Authorities.

HAND SANITISING

We recommend using hand sanitisers before entering a new room and/or touching any equipment. There will be hand sanitising dispensers located at different points of the venue.

DATA REGISTRATION

Your registration details might be used to control and monitor possible spreads if needed, in alignment to the current sanitary regulations.

FACILITY CLEANNING

Facilities will be constantly cleaned to make sure hygiene, sterilisation and quality standards are always met.

SEATING CAPACITY RESTRICTIONS

Room capacities will be reduced according to the current Health Authorities regulations.

SIGNALLING AND SUPPORT STAFF

Signalling systems will be displayed around the venue to guarantee the correct flow of attendees and their social distancing.

CATERING

All the catering provided during the Meeting, inside and outside the venue, will meet the current action protocols stablished in the sector, regarding COVID19.

PROGRAMME AT A GLANCE

Tuesday, November 2nd 2021

	OTHER VENUE
16:00-16:30	**Satellite Event 1** The ins and outs of Parkinson's disease *Ariadna Laguna and Analia Bortolozzi*
16:30-17:00	
17:00-17:30	
17:30-18:00	
18:30-19:30	**Conference** La interacción nervio-músculo y los fundamentos de la neurociencia *Josep Esquerda*

Wednesday, November 3rd 2021

	Auditorium 1	Auditorium 2	Parallel Room 1	Parallel Room 2	EXHIBITION HALL	
8:30-9:00		11th Meeting of the Spanish Glial Network (RGE) (Part I)				NeuroART Exhibition
9:00-9:30	Excellent Rita Levi-Motalcini Award (Part I)		Red NeuroEvoDevo Pedro Ramón y Cajal (Part I)	3rd Symposium of the Spanish Network for the Interaction between Computational and Cognitive Neuroscience (SINC2)(Part I)		
9:30-10:00						
10:00-10:30						
10:30-11:00						
11:00-11:30	Coffee break					
11:30-12:00	Excellent Rita Levi-Montalcini Award (Part II)	11th Meeting of the Spanish Glial Network (RGE) (Part II)	Red NeuroEvoDevo Pedro Ramón y Cajal (Part II)	3rd Symposium of the Spanish Network for the Interaction between Computational and Cognitive Neuroscience (SINC2)(Part II)		
12:00-12:30						
12:30-13:00						
13:00-14:00	Welcome cocktail					
14:00-14:30	Opening ceremony					
14:30-15:00	**Opening Lecture** VALENTINA EMILIANI					
15:00-15:30						
15:30-16:00	**S01 -** Binding cell assemblies into memory engrams	**S02 -** Deciphering brain circuits: insights from reward and neuronal excitability			Poster Session 1	
16:00-16:30						
16:30-17:00						
17:00-17:30						
17:30-18:00	Coffee break					
18:00-18:30						
18:30-19:00						
19:00-19:30	**Iberian Neuroscience Lecture** MARTA MOITA					
19:30-20:00						
20:00-20:30						
20:30-21:00						

Thursday, November 4th 2021

	Auditorium 1	Auditorium 2	Parallel Room 1	EXHIBITION HALL
8:30-9:00				NeuroART Exhibition
9:00-9:30	**S03 -** Inhibitory cells throughout brain circuits	**S04 -** Understanding quiescence in adult neurogenic niches		Poster Session 2
9:30-10:00				
10:00-10:30				
10:30-11:00				
11:00-11:30	Coffee break			
11:30-12:00				
12:00-12:30				
12:30-13:00	Olympus Award Talk			
13:00-13:30				
13:30-14:00	**Satellite Event 2** Submitting your work to an international journal: the peer review and what we expect in a good paper	**Satellite Event 3** La retina de los vertebrados (por Santiago Ramón y Cajal)	Commercial Session Miltenyi	
14:00-14:30				
14:30-15:00				
15:00-15:30	**S05 -** Modeling behavior during decision making	**S06 -** Tracing cell lineages in the brain		Poster Session 3
15:30-16:00				
16:00-16:30				
16:30-17:00				
17:00-17:30	Coffee break			
17:30-18:00				
18:00-18:30				
18:30-19:00	**Honorary Lecture "María Teresa Miras Portugal"** JOSE MARIA DELGADO			
19:00-19:30				
19:30-20:00			**Satellite Event 4** A neuroscientific dialog on lucid dreaming	
20:00-20:30				

Friday, November 5th 2021

	Auditorium 1	Auditorium 2	EXHIBITION HALL
8:30-9:00			NeuroART Exhibition
9:00-9:30	**S07 -** Motor circuits and motor control from a basic and clinical view	**S08 -** Origin and expansion of the neocortex	Poster Session 4
9:30-10:00			
10:00-10:30			
10:30-11:00			
11:00-11:30	Coffee break		
11:30-12:00			
12:00-12:30			
12:30-13:00	**Presidential Lecture** MICHAEL HENEKA		
13:00-13:30			
13:30-14:00	**Satellite Event 5** From Alzheimer´s disease to vascular dementia: different roads leading to cognitive decline	**Satellite Event 6** Data-Driven Computational Neuroscience	
14:00-14:30			
14:30-15:00			
15:00-15:30	**S09 -** Understanding the neuroimmune axis in health and disease: myeloid and lymphoid cells in the Central Nervous System	**S10 -** Rethinking the epigenetic landscape in the intellectual disability	Poster Session 5
15:30-16:00			
16:00-16:30			
16:30-17:00			
17:00-17:30	Coffee break		
17:30-18:00			
18:00-18:30			
18:30-19:00			
19:00-19:30		SENC Asembly	
19:30-20:00			
20:00-20:30			
20:30-21:00			
21:30-24:00			

NOVEMBER 2ND, TUESDAY

16:00 - 18:00
Sala Audiovisuals, Edifici Transfronterer, Campus de Cappont, Universitat de Lleida

SATELLITE EVENT 1
The ins and outs of Parkinson's disease

Ariadna Laguna
Senior researcher at the Neurodegenerative Diseases Research Group of the Vall d'Hebron Research Institute (VHIR)-Network Center for Biomedical Research in Neurodegenerative Diseases (CIBERNED).

Analia Bortolozzi
Senior scientist at Spanish Research Council (CSIC) and leads group CB/07/09/0034 of the Center for Networked Biomedical Research on Mental Health (CIBERSAM).

Sponsored by:

18:30 – 19:30
Sala Audiovisuals, Edifici Transfronterer, Campus de Cappont, Universitat de Lleida

CONFERENCE

Speaker: **La interacción nervio-músculo y los fundamentos de la neurociencia.**
Josep Esquerda
Universitat de Lleida (UdL), Institut de Recerca Biomèdica de Lleida (IRBLLEIDA), Lleida, Spain.

NOVEMBER 3RD, WEDNESDAY

08:30-11:00
Auditorium 2

11TH MEETING OF THE SPANISH GLIAL NETWORK (RGE) (PART I)

Organized by RGE

09:00-11:00
Auditorium 1

Co-financed by IBRO-PERC / SENC

EXCELLENT RITA LEVI-MONTALCINI AWARD (PART I)

Organized by SENC Young Researcher's Committee

09:00-11:00
Parallel room 1

XII MEETING OF THE RED NEUROEVODEVO PEDRO RAMÓN Y CAJAL (PART I)

Organized by Pedro Ramón y Cajal Network

09:00-11:00
Parallel room 2

3RD SYMPOSIUM OF THE SPANISH NETWORK FOR THE INTERACTION BETWEEN COMPUTATIONAL AND COGNITIVE NEUROSCIENCE (SINC2) (PART I)

Organized by SINC²

11:00-11:30 Coffee Break

11:30-13:00
Auditorium 1

Co-financed by IBRO-PERC / SENC

EXCELLENT RITA LEVI-MONTALCINI AWARD (PART II)

Organized by SENC Young Researcher's Committee

11:30-13:00 Auditorium 2
11TH MEETING OF THE SPANISH GLIAL NETWORK (RGE) (PART II)
Organized by RGE

11:30-13:00 Parallel room 1
XII MEETING OF THE RED NEUROEVODEVO PEDRO RAMÓN Y CAJAL (PART II)
Organized by Pedro Ramón y Cajal Network

11:30-13:00 Parallel room 2
3RD SYMPOSIUM OF THE SPANISH NETWORK FOR THE INTERACTION BETWEEN COMPUTATIONAL AND COGNITIVE NEUROSCIENCE (SINC2) (PART II)
Organized by SINC²

13:00-14:00 Welcome Cocktail

14:00-14:30 Auditorium 1
OPENING CEREMONY

14:30-15:30 Auditorium 1
OPENING LECTURE

Chair: Eloisa Herrera
President of SENC's Programme Committee.

Speaker: **All-optical interrogation of brain circuits using optogenetics and holography.**
Valentina Emiliani
Institute de la Vision, Paris, France.

Sponsored by:
FUNDACIÓN RAMÓN ARECES

15:30-17:30
Auditorium 1

S01 - BINDING CELL ASSEMBLIES INTO MEMORY ENGRAMS

Chairs:

Santiago Canals
Instituto de Neurociencias de Alicante, Consejo Superior de Investigaciones Científicas (CSIC)-Universidad Miguel Hernández de Elche (UMH), Alicante, Spain.

Claudio Mirasso
Instituto de Física Interdisciplinar y Sistemas Complejos (CSIC-UIB), Campus Universitat de les Illes Balears, Spain.

Speakers:

The hippocampus converges volatile entorhinal inputs in stable spatial maps.
Marlene Bartos
Institute for Physiology, Dept. I, Cellular and Systemic Neurophysiology, University of Freiburg, Freiburg, Germany.

Active dendrites and their role in memory assemblies.
Panayiota Poirazi
Institute of Molecular Biology and Biotechnology (IMBB), Foundation of Research and Technology-Hellas (FORTH), Crete, Greece.

Regulation of inhibitory circuits in the dentate gyrus: role on temporal coding and pattern separation.
Claudio Mirasso
Instituto de Física Interdisciplinar y Sistemas Complejos (CSIC-UIB), Campus Universitat de les Illes Balears, Spain.

The dentate gyrus coordinates brain-wide functional networks during memory formation.
Santiago Canals
Instituto de Neurociencias de Alicante, Consejo Superior de Investigaciones Científicas (CSIC)-Universidad Miguel Hernández de Elche (UMH), Alicante, Spain.

Short Oral Poster Teaser Presentations

- **SP3-51 S01** - **Exploring network coding strategies that could be essential for the proper execution of behavioural sequences during an operant conditioning task.** Raudel Sánchez-Campusano. *Division of Neurosciences, Universidad Pablo de Olavide, Sevilla, Spain.*
- **SP3-55 S01** - **Specialized prefrontal circuits explain population dynamics during working memory encoding and maintenance.** Nicolás Pollán. *Centre De Recerca Matemàtica, Barcelona, Spain.*
- **SP5-48 S01** - **Learning conditions influence hippocampal-dependent memory and context discrimination.** Nuria Cano-Adamuz. *Cajal Institute (CSIC), Madrid, Spain.*

15:30-17:30
Auditorium 2

S02 - DECIPHERING BRAIN CIRCUITS: INSIGHTS FROM REWARD AND NEURONAL EXCITABILITY

Chairs:

Marta Navarrete Llinás
Instituto Cajal, CSIC, Madrid, Spain.

Juliana Martins Da Rosa
Hospital Nacional de Parapléjicos, Toledo, Spain.

Speakers:

Co-financed by IBRO-PERC / SENC

INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION

Neurobiological basis of reward and aversion: a focus on the nucleus accumbens circuitry.
Ana João Rodrigues
University of Minho, ICVS; School of Medicine, Campus Gualtar, Braga, Portugal.

Revealing the functional anatomy of synaptic partners using super-resolution STED microscopy.
Jan Tonnesen
Achucarro Basque Center for Neuroscience, Science Park of the UPV/EHU, Leioa, Spain.

Astrocytic Network Heterogeneity in the Nucleus Accumbens.
Marta Navarrete Llinás
Instituto Cajal, CSIC, Madrid, Spain.

On the road map of astrocyte functional heterogeneity: implications in sensory processing and spontaneous activity.
Juliana Martins da Rosa
Hospital Nacional de Parapléjicos, Toledo, Spain.

Short Oral Poster Teaser Presentations

- **PS1-22 S02** - **mGlu4 receptors rescue parallel fiber LTP and motor skilled reaching deficits in a mouse model of Fragile X Syndrome.** Ricardo Martín Herranz. *Universidad Complutense de Madrid, Madrid, Spain.*
- **PS4-23 S02** - **Afferent synaptic terminals on spinal cord motor neurons are acutely disrupted after peripheral nerve transection: involvement of necroptotic pathway and microglial piecemeal phagocytosis.** Sara Salvany. *Universitat de Lleida / IRBLleida, Lleida, Spain.*
- **PS5-25 S02** - **Dissociation of functional and structural plasticity of dendritic spines during NMDAR and mGluR-dependent long-term synaptic depression in wild-type and fragile X model mice.** Miquel Bosch. *Universitat Internacional de Catalunya, Sant Cugat del Vallès, Spain.*

15:30-19:00 Exhibition hall — **POSTER SESSION 1**
PS1-01 to PS1-88

17:30-18:00 — Coffee break

19:00-20:00 Auditorium 1 — **PLENARY LECTURE**
Iberian Neuroscience Lecture

Chair: Paola Bovolenta
Elected SENC President.

Speaker: **On the complexities of immobility.**
Marta Moita
Champalimaud Centre for the Unknown, Lisbon, Portugal.

Sponsored by:
WILEY EJN European Journal of Neuroscience

NOVEMBER 4TH, THURSDAY

09:00-11:00
Auditorium 1

S03 - INHIBITORY CELLS THROUGHOUT BRAIN CIRCUITS

Chair:

Sara Mederos
Sainsbury Welcome Centre (UCL), London.

Speakers:

Co-financed by IBRO-PERC / SENC

INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION

Interneuron regulation of early developmental dynamics.
Laura Modol
King's College London, London, UK.

The role of inhibition in hippocampal place cells.
Manuel Valero
NYU Neuroscience Institute, New York, USA.

Pathways for modulating escape decisions through the inhibitory ventral lateral geniculate nucleus.
Sara Mederos
Sainsbury Wellcome Centre (UCL), London, UK.

Two tunable inhibitory systems govern the activity of neocortical layer 1 (L1).
Bernardo Rudy
NYU Neuroscience Institute, New York, USA.

Short Oral Poster Teaser Presentations

- **PS3-39 S03** - **Neuronal activity reflecting sensory and behavioural variables in the mouse somatosensory and posterior parietal cortex.** Miguel Maravall. *University of Sussex, Brighton, UK.*
- **PS3-40 S03** - **Neural probes for multimodal interrogation of brain lamination.** María Teresa Jurado Parras. *Instituto Cajal. CSIC, Madrid, Spain.*
- **PS5-37 S03** - **M1- muscarinic control of slow oscillations and epileptiform discharges by light.** José Manuel Sánchez Sánchez. *Instituto De Investigaciones Biomédicas August Pi I Sunyer (idibaps), Barcelona, Spain.*

09:00-11:00
Auditorium 2

S04 - UNDERSTANDING QUIESCENCE IN ADULT NEUROGENIC NICHES

Chairs:

Aixa V. Morales
Instituto Cajal (CSIC), Madrid, Spain.

Helena Mira
Instituto de Biomedicina de Valencia (IBV), CSIC, Valencia, Spain.

Speakers:

Progressive changes in hippocampal stem cell properties ensure lifelong neurogenesis.
François Guillemot
The Francis Crick Institute, London, UK.

Injury-induced activation of quiescent neural progenitors in the adult fly brain.
Christa Rhiner
Champalimaud Foundation, Champalimaud Centre for the Unknown, Lisbon, Portugal.

Coming from within: cell-intrinsic modulators of quiescent neural stem cells.
Helena Mira
Instituto de Biomedicina de Valencia (IBV), CSIC, Valencia, Spain.

From quiescence to proliferation and back: the active life of neural stem cells.
Aixa V. Morales
Instituto Cajal (CSIC), Madrid, Spain.

Short Oral Poster Teaser Presentations

- **PS2-02 S04** - **Chromatin signatures of neuronal subpopulations with divergent projection at the midline identify novel wiring regulators.** Marta Fernández-Nogales. *Instituto de Neurociencias, Alicante, Spain.*
- **PS3-10 S04** - **Microglia gradually acquire their mature phenotype in the developing hippocampus.** Marta Pereira. *Achucarro Basque Center For Neuroscience, Leioa, Spain.*
- **PS3-11 S04** - **The sound of sight: mapping crossmodal circuits of audio-visual connectivity in the mammalian brain.** Irene Varela Martínez. *Centro Nacional De Biotecnología (CNB-CSIC), Madrid, Spain.*

09:00-12:30 **POSTER SESSION 2**
Exhibition hall **PS2-01 to PS2-89**

11:00-11:30 Coffee break

12:30-13:30 **OLYMPUS AWARD TALK**
Auditorium 1

OLYMPUS

12:30-12:45 **Olympus.**
Josep Molist
SSD Regional Representative South

12:45-12:55 **SENC-Olympus Award.**
Ángel Acebes
SENC Young Researcher's Committee

12:55-13:25 **From commissural axon guidance to cerebellar circuits.**
Juan Antonio Moreno Bravo
Instituto de Neurociencias de Alicante. CSIC-UMH
2021 VII SENC-Olympus Award winner.

13:25-13:30 **Closing remarks.**
Paola Bovolenta
Elected SENC President.

13:30-14:30 **SATELLITE EVENT 2**
Auditorium 1 **Submitting your work to an international journal: The peer review and what we expect in a good paper**
Juan Lerma
Editor in Chief of Neuroscience. Instituto de Neurociencias, CSIC-UMH, San Juan de Alicante, Alicante, Spain.

13:30-14:30 **SATELLITE EVENT 3**
Auditorium 2 **La retina de los vertebrados (por Santiago Ramón y Cajal)**

Speakers:

Nicolás Cuenca Navarro
Universidad de Alicante, Alicante, Spain.

Pedro de la Villa Polo
Universidad de Alcalá, Alcalá de Henares, Madrid, Spain.

Fernando de Castro Soubriet
Instituto Cajal, CSIC, Madrid, Spain.

Xabier Sánchez Sáez
Universidad de Alicante, Alicante, Spain.

Mateo Pazo González
Universidad de Murcia, Murcia, Spain.

Manuel Vidal Sanz
Universidad de Murcia, Murcia, Spain.

13:30-14:30
Parallel room 1

COMMERCIAL SESSION – MILTENYI BIOTEC

Live Demo: UltraMicroscope Blaze for 3D automated imaging of large samples in neuroscience

Speakers:

Christine Ahlert
Application Specialist, Miltenyi Biotec, Bielefeld, Germany.

Luis Muñiz Menéndez
Imaging Sales Specialist, Miltenyi Biotec, Madrid, Spain.

15:00-17:00
Auditorium 1

S05 - MODELING BEHAVIOR DURING DECISION MAKING

Chairs:

Alfonso Renart Fernandez
Champalimaud Neuroscience Program, Lisbon, Portugal.

Jaime de la Rocha
Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona.

Speakers:

Spatial maps in piriform cortex during olfactory navigation.
Cindy Poo
Champalimaud Foundation, Lisbon, Portugal.

Social decision-making in rodents.
Cristina Márquez
Instituto de Neurociencias de Alicante, Alicante, Spain.

Mechanisms underlying simple perceptual choices.
Alfonso Renart Fernandez
Champalimaud Neuroscience Program, Lisbon, Portugal.

The dynamics of evidence accumulation in expectation-guided perceptual decisions.
Jaime de la Rocha
Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain.

Short Oral Poster Teaser Presentations

- **PS5-40 S05 - Take care of your babies! Mouse pups produce pheromones that induce maternal behaviour.** Rafael Goterris-Cerisuelo. *Universitat Jaume I, Castellón, Spain.*
- **PS5-47 S05 - Microglia Regulate Learning and Memory through NF-kB.** Aysha María Bhojwani Cabrera. *Consejo Superior de Investigaciones. Alicante, Spain.*
- **PS4-57 S05 - Bump attractor dynamics underlying stimulus integration in perceptual estimation tasks.** Jose M. Esnaola-Acebes. *Centre de Recerca Matemàtica (CRM), Barcelona, Spain.*

15:00-17:00
Auditorium 2

S06 - TRACING CELL LINEAGES IN THE BRAIN

Chairs:

Jorge García-Marqués
Centro Nacional de Biotecnología, CSIC, Madrid, Spain.

Isabel Espinosa-Medina
Janelia Research Campus, Howard Hughes Medical Institute, Maryland, USA.

Speakers:

Sponsored by:

Co-financed by IBRO-PERC / SENC

Neural stem cell lineage progression in developing cerebral cortex.
Simon Hippenmeyer
Institute of Science and Technology (IST) Austria, Austria.

Temporal encoding and manipulation of vertebrate cell histories with a new CRISPR/Cas9 system.
Isabel Espinosa-Medina
Janelia Research Campus, Howard Hughes Medical Institute, Maryland, USA.

Delving into the generation of cortical astrocyte diversity and plasticity using multicolour lineage tracing tools.
Karine Loulier
Institut for Neurosciences of Montpellier (INM), University of Montpellier, INSERM, Montpellier, France.

Cell lineages in the vertebrate brain: lessons from Drosophila.
Jorge García Marqués
Centro Nacional de Biotecnología, CSIC, Madrid, Spain.

Short Oral Poster Teaser Presentations

- **PS3-07 S06** - **Understanding the mechanisms involved in migration and circuit integration of thalamic interneurons.** Irene Huerga Gómez. *Instituto De Neurociencias De Alicante, Alicante, Spain.*
- **PS3-08 S06** - **Differential expression levels of Sox9 in early neocortical radial glial cells regulate the decision between stem cell maintenance and differentiation.** Jaime Fabra-Beser. *BIOTECMED Institute, Universidad de Valencia, Valencia, Spain.*
- **PS5-03 S06** - **Postnatal refinement of interhemispheric callosal projections: GluN3A-mediated mechanisms.** Oliver Crawley. *Instituto de Neurociencias, San Juan de Alicante, Spain.*

15:00-18:30 Exhibition hall
POSTER SESSION 3
PS3-01 to PS3-94

17:00-17:30 Coffee break

18:30-19:30 Auditorium 1
HONORARY LECTURE "MARÍA TERESA MIRAS PORTUGAL"

Chair: Gertrudis Perea
Vicepresident of SENC.

Speaker: **Neural substrates of associative, elective, and cooperative learning tasks.**
José María Delgado
Universidad Pablo de Olavide, Sevilla, Spain.

Sponsored by: FUNDACIÓN RAMÓN ARECES

This event will be entirely in Spanish.

19:30-20:30 Parallel Room 1
SATELLITE EVENT 4
A neuroscientific dialog on lucid dreaming.

Speakers: Natalia López-González del Rey
PhD candidate at HM CINAC, natural lucid dreamer.

Guglielmo Foffani
Senior investigator at HM CINAC, trained lucid dreamer.

NOVEMBER 5TH, FRIDAY

09:00-11:00
Auditorium 1

S07 - MOTOR CIRCUITS AND MOTOR CONTROL FROM A BASIC AND CLINICAL VIEW

Chairs:

Claudia Ammann
HM CINAC, Hospital Universitario HM Puerta del Sur, Móstoles, Spain.

María Teresa Jurado Parras
Instituto Cajal. CSIC, Madrid, Spain.

Speakers:

Co-financed by IBRO-PERC / SENC

INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION

Sensorimotor integration by dorsal striatal circuits.
Ramón Reig
Instituto de Neurociencias CSIC-UMH, Alicante, Spain.

Motor control in the dorsal striatum.
María Teresa Jurado Parras
Instituto Cajal. CSIC, Madrid, Spain.

Chx10 pedunculopontine neurons, a midbrain glutamatergic subpopulation that causes global motor immobilization.
Roberto Leiras
Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark.

Disinhibition of the motor cortex in Parkinson's disease.
Claudia Ammann
HM CINAC, Hospital Universitario HM Puerta del Sur, Móstoles, Spain.

Short Oral Poster Teaser Presentations

- **PS4-41 S07** - **Interference-based forgetting in a goal-directed spatial navigation task for rodents.** Paula Peixoto Moledo. *Institut d'Investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain.*
- **PS4-42 S07** - **Inhibition in a midbrain circuit controlling instinctive escape decisions.** Oriol Pavón Arocas. *Sainsbury Wellcome Centre, UCL, London, UK.*
- **PS4-43 S07** - **Functional analysis of cholinergic neuromodulation of chandelier cells from single-cell to circuit.** Emilio Martínez-Márquez. Instituto de Biomedicina de Sevilla (IBiS)/ HUVR/CSIC/Universidad de Sevilla, Sevilla, Spain.

09:00-11:00
Auditorium 2

S08 - ORIGIN AND EXPANSION OF THE NEOCORTEX

Chair:

Víctor Borrell
Instituto de Neurociencias CSIC-UMH, Alicante, Spain.

Speakers:

Co-financed by IBRO-PERC / SENC

INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION

Evolution of the pallium: new insights from studies in amphibians.
Nerea Moreno
Universidad Complutense de Madrid, Madrid, Spain.

Mosaic evolutionary history of brain circuits through the lens of neurodevelopment.
Fernando Garcia-Moreno
Achucarro Basque Center For Neuroscience, Leioa, Bizkaia, Spain.

Genetic evolution of cerebral cortex size determinants.
Víctor Borrell
Instituto de Neurociencias CSIC-UMH, Alicante, Spain.

How does the human brain develop to the right size and shape? The role of the extracellular matrix.
Katie Long
Centre for Developmental Neurobiology and MRC Centre for Neurodevelopmental Developmental Disorders, King's College London, London, UK.

Short Oral Poster Teaser Presentations

- **PS4-10 S08** - **In vitro study of neurodevelopment in Huntington's disease.** Phil Sanders. *Faculty of Medicine and Health Sciences, University of Barcelona, Barcelona, Spain.*
- **PS4-11 S08** - **Increased GABA levels in postnatal development alter cortical inter-hemispheric circuits.** Lorena Bragg-Gonzalo. *Centro Nacional De Biotecnología, Madrid, Spain.*
- **PS4-12 S08** - **CB1 receptors deficiency in oligodendrocyte precursors disrupts postnatal oligodendrogenesis and causes hypomyelination in mice.** Aníbal Sánchez. *Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Madrid, Spain.*

09:00-12:30
Exhibition hall

POSTER SESSION 4
PS4-01 to PS4-95

11:00-11:30 Coffee break

12:30-13:30 Auditorium 1

PRESIDENTIAL LECTURE

Chair: Joan Comella
President of SENC.

Speaker: **Innate immunity in Neurodegenerative disease.**
Michael T. Heneka
University of Bonn, Bonn, Germany.

Sponsored by:

13:30-14:30 Auditorium 1

SATELLITE EVENT 5

From Alzheimer´s disease to vascular dementia: different roads leading to cognitive decline

Chair: María Ángeles Moro
Professor, Neurovascular Pathophysiology, Centro Nacional de Investigaciones Cardiovasculares,CNIC, Spain.

Speakers: Marion Buckwalter
Professor of Neurology and of Neurosurgery, Stanford University Medical Center, USA.

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Marta Cortes-Canteli
Miguel Servet Research Fellow, CNIC, Spain.

Ismael Santa-Maria
Taub Institute for Research on Alzheimer's Disease and the Aging Brain, Columbia University, USA.

13:30-14:30 Auditorium 2

SATELLITE EVENT 6

Data-Driven Computational Neuroscience

Chair: Elena Galea Rodríguez de Velasco
Institut de Neurociències, Universitat Autònoma de Barcelona, Barcelona, Spain.

Speakers: Concha Bielza Lozoya
Computational Intelligence Group, Universidad Politécnica de Madrid, Madrid, Spain.

15:00-17:00
Auditorium 1

S09 - UNDERSTANDING THE NEUROIMMUNE AXIS IN HEALTH AND DISEASE: MYELOID AND LYMPHOID CELLS IN THE CENTRAL NERVOUS SYSTEM

Chair:

Amanda Sierra
Achucarro Basque Center for Neuroscience Ikerbasque Foundation, University of the Basque Country UPV/EHU, Bizkaia, Spain.

Speakers:

Co-financed by IBRO-PERC /SENC

INTERNATIONAL BRAIN IBRO RESEARCH ORGANIZATION

Not just corpse removal: How microglial phagocytosis maintains tissue homeostasis.
Amanda Sierra
Achucarro Basque Center for Neuroscience Ikerbasque Foundation, University of the Basque Country UPV/EHU, Bizkaia, Spain.

Understanding microglial dynamics from development to age-related neurological disorders.
Diego Gómez Nicola
School of Biological Sciences, University of Southampton, UK.

Dynamics of CNS invading myeloid cells and phenotype acquisition during neuroinflammation.
Giuseppe Locatelli
Theodor Kocher Institute, University of Bern, Bern, Switzerland.

Role of CD4 T cells in brain development.
Emanuela Pasciuto
Katholieke Universiteit Leuven- VIB Center for Brain and Disease Research, University of Leuven, Belgium.

Short Oral Poster Teaser Presentations

- **PS5-81 S09** - **Oleoylethanolamide treatment modulates neuroinflammation and microgliosis in a mouse model of cerebellar neurodegeneration.** Eduardo Weruaga Prieto. *Universidad De Salamanca, Salamanca, Spain.*
- **PS5-82 S09** - **Cortical and hippocampal rhythmopathies in experimental models of brain metastasis.** Alberto Sanchez-Aguilera Lopez. *Instituto Cajal – CSIC, Madrid, Spain.*
- **PS5-83 S09** - **From engrams to memory pathology in Down syndrome.** Álvaro Fernández Blanco. *Centre For Genomic Regulation (CRG), The Barcelona Institute of Science and Technology (BIST), Barcelona, Spain.*

15:00-17:00
Auditorium 2

S10 - RETHINKING THE EPIGENETIC LANDSCAPE IN THE INTELLECTUAL DISABILITY

Chairs:

Angel Barco
Instituto de Neurociencias CSIC-UMH, Alicante, Spain.

Mara Dierssen
Center for Genomic Regulation, Barcelona, Spain.

Speakers:

Specialization of brain cell types is encoded by specific 3D genome architectures.
Ana Pombo
The Max Delbrück Center for Molecular Medicine, Berlin, Germany.

The RNA and histone-methylation landscape in cognitive diseases.
Andre Fischer
German Center for Neurodegenerative Diseases (DZNE), Göttingen, Germany.

ID-linked KDMs prevent spurious transcription in neurons.
Angel Barco
Instituto de Neurociencias CSIC-UMH, Alicante, Spain.

Emerging roles for long noncoding RNAs in Down syndrome hippocampus.
Mara Dierssen
Center for Genomic Regulation, Barcelona, Spain.

Short Oral Poster Teaser Presentations

- **PS5-84 S10** - **Pathological and therapeutic implications of myelin alterations in the Acid Sphingomyelinase Deficiency.** Marta Guerrero-Valero. *Centro De Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, Spain.*
- **PS5-85 S10** - **Human amygdala involvement in Alzheimer's disease revealed by MALDI Imaging and SWATH analysis.** Melania González Rodríguez. *Ciudad Real Medical School/CRIB, University of Castilla La-Mancha, Ciudad Real, Spain.*
- **PS5-86 S10** - **ApTOLL: A novel remyelinating molecule in a model of multiple sclerosis.** Beatriz Fernandez Gomez. *Cajal Institute, Madrid, Spain.*

15:00-18:30 Exhibition hall	**POSTER SESSION 5** **PS5-01 to PS5-96**
17:00-17:30	Coffee break
19:00-20:30 Auditorium 2	**SENC Assembly**

POSTER SESSIONS

POSTER SESSION 1 - WEDNESDAY, 3RD NOV. 15:30 - 19:00

TOPICS	POSTER AREA	POSTERS
01. Developmental Neurobiology	Area 2	01 - 10
02. Neuronal excitability, Synapses and Glia: Cellular mechanisms	Area 2	11 - 28
03. Systems Neuroscience	Area 2	29 - 37
04. Cognitive and Behavioral Neuroscience	Area 1	38 – 50, 87
05. Theoretical and Computational Neuroscience	Area 1	51 - 53
06. Disorders and Nervous System repair	Area 1	54 – 76, 88
07. Homeostatic and Neuroendocrine systems	Area 1	77 - 79
08. New Methods and Technologies	Area 1	80 - 83
09. History, Teaching, Release and Ethics	Area 1	84
10. Others	Area 1	85 - 86

POSTER SESSION 2 - THURSDAY, 4TH NOV. 09:00 - 12:30

TOPICS	POSTER AREA	POSTERS
01. Developmental Neurobiology	Area 1	01 - 08
02. Neuronal excitability, Synapses and Glia: Cellular mechanisms	Area 1	09 - 25
03. Systems Neuroscience	Area 1	26 - 36
04. Cognitive and Behavioral Neuroscience	Area 1	37 - 48
05. Theoretical and Computational Neuroscience	Area 2	49 -52
06. Disorders and Nervous System repair	Area 2	53 - 79
07. Homeostatic and Neuroendocrine systems	Area 2	80 - 82
08. New Methods and Technologies	Area 2	83 - 86
09. History, Teaching, Release and Ethics	Area 2	87
10. Others	Area 2	88 - 89

POSTER SESSION 3 - THURSDAY, 4TH NOV. 15:00 - 18:30

TOPICS	POSTER AREA	POSTERS
01. Developmental Neurobiology	Area 1	01 - 11
02. Neuronal excitability, Synapses and Glia: Cellular mechanisms	Area 1	12 - 28
03. Systems Neuroscience	Area 1	29 - 40
04. Cognitive and Behavioral Neuroscience	Area 1	41 – 52, 93 - 94
05. Theoretical and Computational Neuroscience	Area 2	53 - 56
06. Disorders and Nervous System repair	Area 2	57 - 83
07. Homeostatic and Neuroendocrine systems	Area 2	84 - 86
08. New Methods and Technologies	Area 2	87 - 90
10. Others	Area 2	91 - 92

POSTER SESSION 4 - FRIDAY, 5TH NOV. 09:00 - 12:30

TOPICS	POSTER AREA	POSTERS
01. Developmental Neurobiology	Area 1	01 - 12
02. Neuronal excitability, Synapses and Glia: Cellular mechanisms	Area 1	13 - 30
03. Systems Neuroscience	Area 1	31 - 43
04. Cognitive and Behavioral Neuroscience	Area 1	44 - 55
05. Theoretical and Computational Neuroscience	Area 2	56 - 58
06. Disorders and Nervous System repair	Area 2	59 - 85
07. Homeostatic and Neuroendocrine systems	Area 2	86 - 87
08. New Methods and Technologies	Area 2	88 - 92
10. Others	Area 2	93 - 95

POSTER SESSION 5 - FRIDAY, 5TH NOV. 15:00 - 18:30

TOPICS	POSTER AREA	POSTERS
01. Developmental Neurobiology	Area 1	01 - 10
02. Neuronal excitability, Synapses and Glia: Cellular mechanisms	Area 1	11 - 28
03. Systems Neuroscience	Area 1	29 - 39
04. Cognitive and Behavioral Neuroscience	Area 1	40 - 51
05. Theoretical and Computational Neuroscience	Area 2	52 - 54
06. Disorders and Nervous System repair	Area 2	55 - 87
07. Homeostatic and Neuroendocrine systems	Area 2	88 - 89
08. New Methods and Technologies	Area 2	90 - 94
10. Others	Area 2	95 - 96

POSTER SESSION 1 - WEDNESDAY, 3RD NOV. 15:30 - 19:00. Exhibition Hall

PS1-01

Netrin-1/DCC Signaling System Differentially. Regulates the Migration of Pax7, Nkx6.1, Irx2, Otp, and Otx2 Neuronal Populations in the Developing Interpeduncular Nucleus

Ms. Isabel M. García-Guillén[1], Dr. Antonia Alonso[1], Dr. Nicanor Morales-Delgado[2], Ms. Belén Andrés[3], Dr. Luis Puelles[1], Dr. Guillermina López-Bendito[3], Dr. Faustino Marín[1], Dr. Pilar Aroca[1]
[1]Universidad de Murcia, Murcia, Spain, [2]Universidad Miguel Hernández, Alicante, Spain, [3]Instituto de Neurociencias de Alicante, CSIC, Universidad Miguel Hernández, Alicante, Spain

PS1-02

Characterization of different types of progenitor cells in the postnatal retina of sharks

Mr. Ismael Hernández Núñez[1], Dr. Alberto Docampo Seara[1], Dr. Diego Robledo[2], Dr. Sylvie Mazan[3], Dr. Antón Barreiro Iglesias[1], Dr. Fátima Adrio[1], Dr. Eva Candal[1]
[1]Universidade de Santiago de Compostela. CIBUS. Faculty of Biology., Santiago de Compostela, Spain, [2]The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh, Edinburgh, United Kingdom, [3]CNRS, Sorbonne Université, UPMC Univ Paris 06, UMR7232, Observatoire Océanologique , Banyuls-sur-mer, France

PS1-03

Neurogranin-like expression in the zebrafish brain during early stages of development and changes induced by Mn2+ exposure

Ms. Anabel Alba-González[1], Dr. Julián Yáñez-Sánchez[1], Dra. Mónica Folgueira-Otero[1]
[1]Univerisity of A Coruña (CICA), A Coruña, Spain

PS1-04

Intramodal functional plasticity in the developing somatosensory system

Ms. Mar Aníbal-Martínez[1], Mr. Luis Rodríguez-Malmierca[1], Mr. Francisco José Martini[1], Ms. Guillermina López-Bendito[1]
[1]Instituto De Neurociencias De Alicante. Universidad Miguel Hernández de Elche-CSIC, San Juan De Alicante, Spain

PS1-05

APOE genotype and postnatal chlorpyrifos exposure affect mice cerebral lipid profile

Dra. Laia Guardia-Escote[1], **Ms. Judit Biosca-Brull[1,2]**, Ms. Mikaela Mladenova-Koleva[1], Dra. Pia Basaure[1], Dr. Jordi Blanco[1,3], Dra. Maria Cabré[1,4]

[1]Universitat Rovira i Virgili, Research in Neurobehavior and Health (NEUROLAB), Tarragona, Spain, [2]Universitat Rovira i Virgili, Psychology, Research Center for Behavioral Assessment (CRAMC), Tarragona, Spain, [3]Universitat Rovira i Virgili, Basic Medical Science, Reus, Spain, [4]Universitat Rovira i Virgili, Biochemistry and Biotechnology, Reus, Spain

PS1-06

The development of the cerebello-cortical connectivity

Ms. Raquel Murcia-Ramón[1], Ms Belén Andrés[1], Dra Guillermina López-Bendito[1], Dr. Juan Antonio Moreno-Bravo[1]
[1]Instituto De Neurociencias, San Juan De Alicante, Spain

PS1-07

Motor Neuronal Conversion of Human Mesenchymal Stem Cells by Application of Small Molecules

Mr. Antonio Almenar[1], Ms. Alicia Estirado[1], Ms. Francisca Almagro[1], Dr. Salvador Martínez[1]
[1]Instituto De Neurociencias-CSIC-UMH, Alicante, Spain

PS1-08

CHARACTERIZATION OF THE PARALAMINAR NUCLEUS IN THE MICE: AN AMYGDALAR REGION WITH PROTRACTED MATURATION

Ms. Lucía Inés Torrijos Saiz[1], Dr. Vicente Herranz Pérez[1], Dr. Shawn Sorrells[2], Professor Jose Manuel García Verdugo[1]
[1]Instituto Cavanilles De Biodiversidad Y Biología Evolutiva, University Of Valencia-CIBERNED, Valencia, Spain, [2]University Of Pittsburgh, Pittsburgh, United States Of America

PS1-09

Deregulation of the epithelial-to-mesenchymal transition process underlies Zic2-linked holoprosencephaly

Dra. Aida Giner de Gracia, Dra. Cruz Morenilla, **Ms. Maria Teresa López-Cascales**, Dr. Gerald Muça, Dr. Angel Barco, Dra. Eloisa Herrera
[1]Instituto De Neurociencias, Alicante, Spain

PS1-10

The transcription factor Zic2 participates in adult neurogenesis at the hippocampal subgranular zone (SGZ)

Dr. Carlos Sanchez Huertas[1], Ivan Guzman[1], Prof. Eloisa Herrera[1]
[1]Instituto de Neurociencias (CSIC-UMH), Alicante , Spain

PS1-11

IMPLICATION OF SFRP1 IN ALTERED SYNAPTIC PLASTICITY ASSOCIATED WITH ALZHEIMER'S DISEASE

Ms. Guadalupe Pereyra Gómez[1], Dr. Inés Mateo Ruiz[1], Ms. María Jesús Martín Bermejo[1], Mr. Jose María Delgado-García[2], Ms. Pilar Esteve[1,3], Ms. Paola Bovolenta[1,3]
[1]Centro de Biología Molecular Severo Ochoa, UAM-CSIC, Madrid, Spain, [2]Universidad Pablo de Olavide, Sevilla, Spain, [3]Centro de Investigación Biomédica en Red de Enfermedades Raras, CIBERER, Madrid, Spain

PS1-12

HYPERAMMONEMIA ALTERS THE FUNCTION OF AMPA, NMDA AND GABAA RECEPTORS AND EXTRACELLULAR cGMP REVERSES SOME OF THESE ALTERATIONS

Ms. María Sancho-Alonso[1], Dr. Vicent Teruel[2], Dr. Andrea Cabrera-Pastor[3], Dr. Vicente Felipo[1]
[1]Neurobiology Laboratory, Centro De Investigación Príncipe Felipe, Valencia, Spain, [2]Neuronal Circuits Laboratory, Universidad de Valencia, Valencia, Spain, [3]Neurological Impairment Group - INCLIVA, Valencia, Spain

PS1-13

EARLY SYNAPTIC IMPAIRMENT IN THE HIPPOCAMPUS OF A RAT MODEL OF PROGRESSIVE PARKINSONISM

Arantzazu Belloso-Iguerategui[1], Marta Zamarbide-Gónzalez[1], Leyre Merino-Galan[1], Aleph Prieto[2], Carl W Cotman[2], Joaquín Fernández-Irigoyen[3], Enrique Santamaría-Martínez[3], Ana Quiroga-Varela[1,5], María Cruz Rodríguez-Oroz[4,5]
[1]CIMA-Universidad de Navarra, Pamplona, Spain, [2]Institute for Memory Impairments and Neurological Disorders, University of California-Irvine, Irvine, USA, [3]Centro de Investigación Biomédica Navarrabiomed, Pamplona, Spain, [4]Clínica Universidad de Navarra, Pamplona, Spain, [5]Instituto de Investigación Sanitaria de Navarra (IdiSNA), Pamplona, Spain

PS1-14

Astrocytes exert negative modulation on hippocampal neuron excitability

Ms. Sara Expósito Reguero[1], Mr. Samuel Alberquilla[1], PhD Rosario Moratalla[1], Mr. Alfonso Araque[1], Mr. Eduardo D. Martín[1]
[1]Instituto Cajal, CSIC, Madrid, Spain

PS1-15

Modelling microscale diffusion in geometrically resolved brain extracellular space in live tissue

Ms. Paula Giménez Mínguez[1,2], Mr Konstantinos Chatzimichail[2], Dr. Jan Tønnesen[1,2]
[1]Universidad Del Pais Vasco, Getxo, España, [2]Achucarro Basque Center for Neuroscience, Leioa, España

PS1-16

Cell to cell communication mediates the neurodegeneration caused by glioblastoma

Dr. Sergio Casas Tinto[1], Dr. María Losada-Pérez, Dr. Patricia Jarabo, Dr. Marta Portela, Dr. Francisco A Martín
[1]*Instituto Cajal CSIC, Madrid, Spain*

PS1-17

GSK-3β S9A overexpression leads murine hippocampal neural precursors to acquire an astroglial phenotype in vivo.

Mr. Miguel Flor-García[1,2,3], Dr. Jesús Ávila[1,3], Dr. María Llorens-Martín[1,3]
[1]*Department of Molecular Neuropathology, Centro de Biología Molecular "Severo Ochoa", CBMSO, CSIC-UAM, Madrid, Spain,* [2]*Department of Molecular Biology, Faculty of Sciences, Universidad Autónoma de Madrid, Madrid, Spain,* [3]*Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Madrid, Spain*

PS1-18

Astroglial CB1 mediates synaptic plasticity in the Nucleus Accumbens

Dr. Ana Covelo[1,2], Ines Filipa Dinis[1,3], Dr Giovanni Marsicano[1,2]
[1]*Inserm, Bordeaux, France,* [2]*University of Bordeaux, Bordeaux, France,* [3]*University of Lisbon, Lisbon, Portugal*

PS1-19

In silico screening of GMQ-like compounds reveals guanabenz and sephin1 as new allosteric modulators of acid-sensing ion channel 3

Dr. G Callejo[1,2], Mr LA Pattison[1], Mr JC Greenhalgh[1], Dr S Chakrabarti[1], Ms E Andreopoulou[1], Dr JRF Hockley[1], Dr E St. John Smith[1], Dr T Rahman[1]
[1]*Department of Pharmacology, University of Cambridge, Cambridge, United Kingdom,* [2]*Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain*

PS1-20

Loss of TRESK background potassium channel enhances acute and chronic itch.

Dr. Alba Andrés-Bilbé[1], Dr. Aida Castellanos[1], Ms. Anna Pujol[1], Dr. Núria Comes[1,2], Dr. Gerard Callejo[1,2], **Prof. Xavier Gasull**[1,2]
[1]*Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain,* [2]*Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain*

PS1-21

TRESK background K+ channel regulates sensory neuron excitability and contributes to mechanical and cold pain

Dr. Aida Castellanos[1], Dr. Alba Andrés-Bilbé[1], Dr. Ahmed Negm[3,4], Dr. Gerard Callejo[1,2], Prof. Jacques Noël[3,4], Prof. Xavier Gasull[1,2], **Dr. Núria Comes[1,2]**
[1]Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain, [2]Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, [3]Université Côte d'Azur, CNRS UMR 7275, Institut de Pharmacologie Moléculaire et Cellulaire, Valbonne, France, [4]LabEx Ion Channel Science and Therapeutics, Valbonne, France

PS1-22

mGlu4 receptors rescue parallel fiber LTP and motor skilled reaching deficits in a mouse model of Fragile X Syndrome

Dr. Ricardo Martín[1,2,3], Dr. Nuria García-Font[1,2,3,4], Mr Alberto Samuel Suárez-Pinilla[1,2,3], Dr David Bartolomé-Martín[5], Dr María Jesús Oset-Gasque[1,2,3], Dr Magdalena Torres[1,2,3], Dr José Sánchez-Prieto[1,2,3]
[1]Universidad Complutense de Madrid, Madrid, España, [2]Instituto Universitario de Investigación en Neuroquímica, Madrid, España, [3]Instituto de Investigación Sanitaria del Hospital Clínico San Carlos, Madrid, España, [4]University of Edinburgh, Edinburgh, United Kingdom, [5]Universidad de La Laguna, San Cristóbal de La Laguna, España

PS1-23

IMPACT OF BRAIN STATE ON TRANSCRANIAL DIRECT-CURRENT STIMULATION (tDCS) EFFECTS IN MICE

Mr. Guillermo Sánchez-Garrido Campos[1], Mrs. Ángela M. Zafra[1], Dr. Isabel Cordones[1], Mrs. Marta Estévez-Rodríguez[1], Dr. Javier Márquez-Ruiz[1]
[1]Universidad Pablo De Olavide, Seville, Spain

PS1-24

Nutrient-mediated regulation of GluA1 surface levels

Ms. Rocío Rojas Martín[1], Dr. Rut Fadó Andrés[1], Dr. Alfredo Miñano Molina[2,4], Dr. José Rodríguez Álvarez[2,4,5], Dr. Núria Casals Farré[1,3]
[1]Faculty of Medicine and Health Sciences, Universitat Internacional de Catalunya, Sant Cugat del Vallès, Spain, [2]Institute of Neurosciences (INc), Universitat Autònoma de Barcelona, Barcelona, Spain, [3]Centro de Investigación Biomédica en Red de Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, [4]Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Instituto de Salud Carlos III, Madrid, Spain, [5]Albert Einstein College of Medicine, New York, United States of America

PS1-25

Running and swimming dependent fast-to-slow BDNF/TrkB signalling optimisation at the NMJ

Ms. Laia Just-Borràs[1], Mr. Víctor Cilleros-Mañé[1], Ms. Erica Hurtado[1], Ms. Aleksandra Polishchuk[1], Ms. Maria Duran-Vigara[1], Ms. Marta Balanyà-Segura[1], Mr. Olivier Biondi[2], Mr. Frédéric Charbonnier[2], Ms. Marta Tomàs[1], Ms. Neus Garcia[1], Mr. Josep Tomàs[1], Ms. Maria A. Lanuza[1]
[1]Unitat d'histologia i neurobiologia, Universitat Rovira i Virgili, Reus, Spain, [2]INSERM UMRS 1124, Université de Paris, Reus, España

PS1-26

Existence of FGFR1-5-HT1AR heteroreceptor complexes in hippocampal astrocytes. Putative link to 5-HT and FGF2 modulation of hippocampal gamma oscillations

Dr. Manuel Narvaez[1,4], Dr. Yuniesky Andrade-Talavera[8], D. Ramon Fores-Pons[1,4], Dr. Ismael Valladolid-Acebes[3], Dra. Pia Siegele[4], Dr. Alejandro Hernandez-Sosa[4], Dr. André Fisahn[5], Dr. Alexander López-Salas[4], Dr. Dasiel O. Borroto-Escuela[4,6,7]

[1]Instituto De Investigación Biomédica De Málaga,Facultad de Medicina, Universidad de Málaga, Malaga, Spain, [2] Laboratorio de Neurociencia Celular y Plasticidad , Universidad Pablo Olavide, Sevilla , Spain , [3]The Rolf Luft Research Center for Diabetes and Endocrinology, Karolinska Institutet, Karolinska University Hospital L1, SE-171 76, Stockholm , Sweden , [4]Department of Neuroscience, Karolinska Institutet, Stockholm, Sweden , [5]Department of Neurobiology, Care Sciences and Society, Center for Alzheimer Research, Neuronal Oscillations Lab, Karolinska Institutet, Stockholm, Sweden , [6]Department of Biomolecular Science, Section of Physiology, University of Urbino, Urbino , Italy , [7]Grupo Bohío-Estudio, Observatorio Cubano de Neurociencias, Yaguajay, Cuba , [8]epartment of Neurobiology, Care Sciences and Society, Center for Alzheimer Research, Neuronal Oscillations Lab, Karolinska Institutet, Stockholm, Sweden

PS1-27

Activity-Dependent Reconnection of Adult-Born Dentate Granule Cells in a Mouse Model of Frontotemporal Dementia

Ms. Julia Terreros-Roncal[1,2,3], Ms. Elena P. Moreno-Jiménez[1,2,3], Mr. Miguel Flor-García[1,2,3], Dr. Jesús Ávila[1,2], Dr. María Llorens-Martín[1,2]

[1]Department of Molecular Neuropathology, Centro de Biología Molecular "Severo Ochoa", CBMSO, CSIC-UAM, Madrid, Spain, [2]Centre for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Madrid, Spain, [3]Department of Molecular Biology, Faculty of Sciences, Universidad Autónoma de Madrid, Madrid, Spain

PS1-28

CANNABINOID RECEPTOR TYPE 1 (CB1R) EXPRESSION IN THE BRAIN STRUCTURES OF GENETIC MODELS OF EPILEPSY

PhD Rui Milton Patrício Da Silva Júnior[1,2], PhD Willian Lazarini-Lopes[2], Dr Alejandro Fuerte-Hortigón[3], PhD Laura Zeballos[1], **Prof Mª. Dolores E. López García[1]**, Prof Norberto Garcia-Cairasco[2]

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PS1-29

Simultaneous encoding of fear state and threat identity in prefrontal cortex neuronal populations.

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PS1-30

Using Hippocampome.org to investigate hippocampal circuit dynamics

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PS1-31

Pre-training RNNs on ecologically relevant tasks explains sub-optimal behavioral reset

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PS1-32

Using Uniform Manifold Approximation and Projection (UMAP) for unsupervised sorting of sharp-wave ripples

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PS1-33

Using 1D-convolutional neural networks to detect and interpret sharp-wave ripples

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PS1-34

STUDY OF THE ANTIDEPRESSANT EFFECT OF NEW GENERATION DRUGS BASED ON GLUTAMATERGIC TRANSMISSION.

Mr. Esteban Merino[1], Dr. Vicent Teruel-Martí[1], Dra Ana Cervera-Ferri[1], Mrs. Anna Teruel-Sanchís[1,2], Dr. Sergio Martínez-Bellver[1], Mrs. Maria Villafranca-Faus[1], Mrs. Alicia González-Martínez[1], Mrs. Hanna Vila-Merkle[1], Mr. Manuel Esteban Vila-Martin[1,2], Dr. Enrique Lanuza[2], Dr. Albert Adell[3], Dr. Joana Martínez-Ricós[1], PhD Sharon Cabanu[3]
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PS1-35

Functional diversity of motoneurons innervating extraocular muscle fibers

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PS1-36

Thyroid hormone transporters MCT8 and OATP1C1 are expressed in neurons in the human and monkey basal ganglia and motor thalamus.

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PS1-37

Cortical pyramidal cells express thyroid hormone transporters MCT8 and OATP1C1 in human and monkey brain.

Mr. Yu Wang[1,2], Ms. Ting Wang[1,2,3], Prof. Lucía Prensa[1], Prof. Ana Guadaño-Ferraz[2], Prof. Estrella Rausell[1]

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PS1-38

Retrieval under different conditions: it is always easy to recover the spatial information?

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PS1-39

Synchronized eye blinks predict narrative content in videos

Dr. Celia Andreu-Sánchez[1], Dr, Miguel Ángel Martín-Pascual[1,2], Prof. José María Delgado-García[3], Prof. Agnès Gruart[3]

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PS1-40

Cognitive neurodynamics during audiovisual cuts in media professionals

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PS1-41

Spatial memory evaluated by low anxiogenic Barnes Maze is preserved in the 3xTg-AD mice model of Alzheimer's disease following a cannabinoid treatment

Mr. Iker Bengoetxea de Tena[1], Dr. Marta Moreno-Rodríguez[1], Dr. Jonatan Martínez-Gardeazabal[1], Mr. Gorka Pereira-Castelo[1], Dr. Iván Manuel[1,2], Dr. Lydia Giménez-Llort[3], Dr. Rafael Rodríguez-Puertas[1,2]

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PS1-42

Evaluation of the neuroprotective activity of the ethanolic extract of Myrciaria dubia HBK McVaugh "camu camu" in a murine model of Parkinson's disease.

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PS1-43

Maternal separation alters working memory and brain function of male Wistar rats

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PS1-44

Role of Astrocyte-Neuron signaling in Major Depressive Disorder

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PS1-45

Learning of allocentric and egocentric strategies in an automatized maze

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PS1-46

Transcranial magnetic stimulation reveals the experience-dependent role of the prefrontal cortex in making decisions based on abstract rules.

Ms. Jennifer Paz Canosa[1,2,3], Dr. Jose L. Pardo-Vazquez[1,2,3], Dr. Carmen De Labra[1,2,3], Dr. Javier Cudeiro[1,2,3,4], Dr. Casto Rivadulla[1,2,3]
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PS1-47

The role of Akkermansia muciniphila and environmental enrichment in reversing cognitive impairment associated with high-fat high-cholesterol consumption in rats

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PS1-48

Assessment of social behaviors in C57BL/6 mice exposed to chlorpyrifos: An association with autistic-like behaviors

Ms. Judit Biosca-Brull[1,2], Dra. Laia Guardia-Escote[1], Dra. Pia Basaure[1], Dr. Jordi Blanco[1,3], Dra. Maria Cabré[1,4], Dra. María Teresa Colomina[1,2]
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PS1-49

Genomic Basis of Drosophila Social Memory

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PS1-51

Joint replay of correlated place maps in hippocampus

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PS1-52

A computational model of Slow Wave Oscillation propagation across cortical and striatal networks

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PS1-53

GENE EXPRESSION PATTERN OF HNS1 HUMAN NEURAL STEM CELLS IN DIFFERENTIATION TO APPLICATIONS IN NEUROSCIENCE

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PS1-54

Lactoperoxidase might be a pathogenic factor in Parkinson´s disease

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PS1-55

Native and nitrated α-synuclein, and patterns of nitro-α-synuclein-positive inclusions in saliva and submandibulary gland in idiopathic Parkinson's disease

Dr. Emilio Fernández Espejo[1,6], Dr. Fernando Rodríguez de Fonseca[2,6], Dr. Juan Suárez[2,6], Dr. Eduardo Tolosa[3,5], Dr. Dolores Vilas[4], Dr. Iban Aldecoa[3], Dr. Joan Berenguer[3]

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PS1-56

Functional epi-genomics unveils new risk genes and treatments for Alzheimer´s disease

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PS1-57

CERKL, a retinitis pigmentosa gene, is involved in the regulation of mitochondrial dynamics in retinal and hippocampal neurons

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PS1-58

Rifaximin prevents motor incoordination in rats with mild liver damage by preventing immune cell infiltration and neuroinflammation in the cerebellum

Ms. Gergana Ivaylova[1], Dr. Paola Leone[1], Dr. Tiziano Balzano[2], Dr. Michele Malaguarnera[3,4], Dr. Vicente Felipo[1], Dr. Marta Llansola[1]
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PS1-59

Sphingomyelin 16:0 is a specific target for brain pathology in the acid sphingomyelinase deficiency

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PS1-60

STIMULATION OF MICROVESICLE/EXOSOME SECRETION BY POLYPHENOLS FOR THE TREATMENT OF NIEMANN PICK DISEASES

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PS1-61

ROLE OF mGLUR5 IN THE PSYCHIATRIC ALTERATIONS OF NIEMANN PICK DISEASE TYPE C.

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PS1-62

Nrg1 haploinsufficiency alters inhibitory cortical circuits

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PS1-63

Aluminum Profiles in the Cerebrospinal Fluid during Alzheimer's Disease development. Relation to Pathological Biomarkers

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PS1-64

FUSΔ14 mutation causes changes in lipid metabolism in mice with motor and cognitive alterations

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PS1-65

E2F4DN-based gene therapy recovers long-term potentiation and hippocampal-dependent memory in homozygous 5xFAD mice.

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PS1-66

The matricellular protein hevin´s expression in nucleus accumbens is altered by alcohol chronic treatment and administration after withdrawal

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PS1-67

Lipid metabolism dysregulation is an early and progressive pathological mechanism in the spinal cord of transgenic SOD1 mice.

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PS1-68

Understanding the role of pre-conditioning inflammation on the onset of Alzheimer's Disease

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PS1-69

Morphological and stereological study of neurons and interneurons in the non-human primate striatum

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PS1-70

Proteomic and stereological study of human amygdala in Parkinson's disease

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PS1-71

The genetic load determines behavioural phenotype and gut microbiota composition in the 5xFAD mouse model of Alzheimer's Disease

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PS1-72

Neuronal expression of E2F4DN attenuates the immune response observed in the cerebral cortex and hippocampus of 5xFAD mice

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PS1-73

The role of brain synaptic dysfunction in the progression of C9orf72-ALS/FTD

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PS1-74

Trophic dependence of abducens motoneurons on muscle VEGF

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PS1-75

The increase in doublecortin-immunoreactive immature neurons in the olfactory cortex is linked to symptom onset in a mouse model of Rett syndrome

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PS1-76

FAMILIAL ALZHEIMER'S DISEASE GENE MUTATIONS REGULATE MITOCHONDRIAL DNA REPLICATION, TRANSCRIPTION AND RELEASE.

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PS1-77

Cellular plasticity of neuropeptidergic systems in the mouse hypothalamus.

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PS1-78

FUNCTIONAL PROPERTIES AND MOLECULAR MACHINERY UNDERLYING OXYTOCIN RELEASE

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PS1-79

Mitochondrial fission factor (MFF) regulates mitochondrial dynamics and excitability of Agouti related peptide (AgRP)-expressing neurons

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PS1-80

Fabrication of Pine oil loaded Donepezil and TPGS stabilized ultra-fine nanoemulsion via Intranasal route for Alzheimer's disease

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PS1-81

Scaffolds of Mobile Extracellular Matrix Molecules Enhance Maturation of Human Stem Cells-Derived Neurons

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PS1-82

SELF-ASSEMBLED HYBRID HYDROGELS BASED ON GRAPHENE DERIVATES AND CERIUM OXIDE NANOPARTICLES AS THREE-DIMENSIONAL SUBSTRATES FOR NEURAL STEM CELLS.

Yurena Polo[1,3], Jon Luzuriaga[1], Sergio Gonzalez de Langarica[1], Beatriz Pardo Rodriguez[1], Edurne Marin[1], Daniel E. Martínez-Tong[4], Gaskon Ibarretxe[1], Fernando Unda[1], JR Sarasua[1,3], Aitor Larrañaga[1,3], **JR Pineda[1,2]**

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PS1-83

Modulating corticostriatal activity with transcranial static-magnetic-field stimulation

Mr. Jaime Caballero-Insaurriaga[1,2], Dr. José Ángel Pineda-Pardo[1], Dr. Guglielmo Foffani[3]

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PS1-84

Situation of university biotheriums and research centers using murine systems in Peru

Eng. Richard Cisneros[1], M.Sc. Roy Andrade[2], Ph.D. Elmer Chávez[1], Ph.D Luis Aguilar[3]

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PS1-85

Acetylcholinesterase in cortical neurons derived from patient-derived iPS.

Ms. María-Ángeles Cortés-Gómez[1,2,3], Dr. Lotta Agholme[4], Prof. Henrik Zetterberg[4], Dr Javier Sáez-Valero[1,3], Dr. María-Salud García-Ayllón[1,2,3]

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PS1-86

Genomic imprinting of Dlk1 is altered during adult neural stem cells (NSCs) reprogramming into pluripotent stem cells (iPSCs)

Dr. Anna Lozano-Ureña[1], Esteban Jiménez-Villalba[1], Dr. Mitsuroto Ito[2], Dr. Sacri R. Ferrón[1]

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PS1-87

ANALYSIS OF HIPPOCAMPAL PARTICIPATION IN SOCIAL INTERACTIONS IN A GENETIC MODEL OF AUTISTIC SPECTRUM DISORDER

Pilar Rodríguez-Martín[1], Almudena Sanz[1], Eva Monserrat[1], Inés Colmena[1], Cristina Medina-Menéndez[1], Véronique Lefebvre[2], Aixa V. Morales[1]
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PS1-88

Effect of the transplant type on RGC neuroprotection and axonal regeneration after optic nerve crush

Ms. María Norte Muñoz[1], Dr. Fernando Lucas Ruíz[1], Mr. Alejandro Gallego Ortega[1], Dr. David García Bernal[1], Prof. Manuel Vidal Sanz[1], Dr. Marta Agudo Barriuso[1]
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POSTER SESSION 2 - THURSDAY, 4TH NOV. 09:00 - 12:30. Exhibition Hall

PS2-01

ADAMTS2 and Poly (I:C): Genetic and enviromental mouse models of Schizophrenia disorder.

Miss Celia Martín-Cuevas[1,2], Mr Víctor Darío Ramos-Herrero[2], Dr. Susana García-Cerro[1,2], Dr. Manuel Canal-Rivero[1,2,3], Miss Nathalia Garrido-Torres[1,2,3], Mr. Idalino Rocha-González[1,2,3], Dr. Miguel Ruíz-Veguilla[1,2,3,4], Dr. Benedicto Crespo-Facorro[1,2,3,4], Dr. Ana Carmen Sánchez-Hidalgo[1,2]
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PS2-02

CHROMATIN SIGNATURES OF NEURONAL SUBPOPULATIONS WITH DIVERGENT PROJECTION AT THE MIDLINE IDENTIFY NOVEL WIRING REGULATORS

Dr. Marta Fernández-Nogales[1], María Teresa López-Cascales[1], Dr. Rafael Muñoz-Viana[1], Dr. Jordi Fernández-Albert[1], Dr. Verónica Murcia-Belmonte[1], Dr. Ángel Barco[1], Dr. Eloísa Herrera[1]
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PS2-03

A ribo-tag based screen identifies a cohort of proteins locally translated at the axons during axonal navigation

Dr. Veronica Murcia-Belmonte[1], M Teresa López-Cascales[1], Dr Angel Barco[1], Dr Eloisa Herrera[1]
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PS2-04

Developmental-based classification of neurons in the chicken central extended amygdala

Ms. Alessandra Pross[1,2], Mr. Alek Hanafi Metwalli[1,2], Dr. Ester Desfilis[1,2], Prof. Loreta Medina[1,2]
[1]Lleida's Institute for Biomedical Research-Dr. Pifarre Foundation (IRBLleida), Lleida, Spain, [2]University of Lleida, Lleida, Spain

PS2-05

Wnt1 effect on the Fasciculus retroflexus axonal navigation.

Ms. Verónica Company[1], Ms. Ana Moreno-Cerdá[1], Ms. Francisca Almagro-García[1], Dr. Salvador Martínez[1], Dr. Diego Echevarría[1], Dr. Eduardo Puelles[1]
[1]Instituto De Neurociencias (UMH-CSIC), Sant Joan D'Alacant, Spain

PS2-06

Wnt1 role in the specification and differentiation of the habenular complex.

Ms. Ana Moreno Cerdá[1], Ms Verónica Company[1], Ms Raquel Murcia-Ramón[1], Dr. Abraham Andreu-Cervera[1], Ms Francisca Almagro-García[1], Dr Salvador Martínez[1], Dr Diego Echevarría[1], Dr Eduardo Puelles[1]
[1]Instituto de Neurociencias (UMH-CSIC), Sant Joan D' Alacant, Spain

PS2-07

Otp expression in cortical neurons throughout ontogenesis

Ms. Lorena Morales[1,2], Doctor Ester Desfilis[1,2], Professor Loreta Medina[1,2]
[1]Lleida's Institute For Biomedical Research-Dr.Pifarré Foundation (IRBLleida), Lleida, Spain, [2]University of Lleida, Lleida, Spain

PS2-08

Expression of gonadal hormones' receptors in Otp-related social behavior network

Ms. Alba Gonzalez-Alonso[1,2], Ms Lorena Morales[1,2], Doctor Antonio Abellán[1,2], Professor Loreta Medina[1,2], Doctor Ester Desfilis[1,2]
[1]Lleida's Institute for Biomedical Research-Dr. Pifarré Foundation (IRBLleida), Lleida, Spain, [2]University Of Lleida, Lleida, Spain

PS2-09

Astrocytes gate spike timing dependent plasticity in the Nucleus Accumbens

Mr. Samuel Alberquilla[1], Dra Carmen Nanclares[2], Dra Rosario Moratalla[1], Dr Alfonso Araque[2], Dr Eduardo Daniel Martín[1]
[1]Instituto Cajal, Madrid, Spain, [2]University of Minnesota, Medical School , Minneapolis, USA

PS2-10

Neuromuscular activity regulates PKA catalytic and regulatory subunits and its downstream signaling pathway for ACh release at the NMJ

Ms. Aleksandra Polishchuk[1], Mr. Victor Cilleros-Mañé[1], Ms. Laia Just-Borràs[1], Ms. Maria Durán-Vigara[1], Mr. Genís Vandellós[1], Ms. Marta Balanyà Segura[1], Ms. Gemma Argilaga[1], Dr. Marta Tomàs[1], Dr. Neus Garcia[1], Dr. Josep Tomàs[1], Dr. Maria Angel Lanuza[1]
[1]Universitat Rovira I Virgili, Reus, Spain

PS2-11

Basal autophagy inhibition in microglia diminishes phagocytosis of apoptotic cells and microglial survival

Dr. Ainhoa Plaza-Zabala[1,2], **Miss Virginia Sierra-Torre[1,2]**, Dr. Guillermo Mariño[3,4], Dr. Travis Faust[5], Dr. Dorothy Schafer[5], Dr. Amanda Sierra[1,2,6]
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PS2-12

Modification of the extracellular matrix impairs microglial motility

Dr. Federico Soria[1,2,3], Lic. Irene Tomé-Velasco[1]
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PS2-13

Brain estrogen synthesis regulates synaptic inhibition in female hippocampus

Dr. Alicia Hernández-Vivanco[1], Dr. Íñigo Azcoitia[2], Alba González-Alonso[1], Dr. Pablo Méndez[1]
[1]Instituto Cajal, Madrid, Spain, [2]Universidad Complutense de Madrid, Madrid, Spain

PS2-14

EFFECTS OF TRANSCRANIAL DIRECT-CURRENT STIMULATION (tDCS) ON THALAMOCORTICAL SENSORY PATHWAY IN AWAKE MICE

Mr. Guillermo Sánchez-Garrido Campos[1], Ms. Marta Estévez-Rodríguez[1], PhD Isabel Cordones[1], **PhD Javier Márquez-Ruiz[1]**
[1]Pablo de Olavide University, Seville, Spain

PS2-15

Characterization of synaptic transmission occurring in olfactory glomeruli of X. tropicalis tadpoles in vivo

Ms. Marta Casas[2], Dr. Artur Llobet[2]
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PS2-16

Towards pharmacological modulation of microglial phagocytosis

Ms. Noelia Rodriguez-Iglesias[1,2], Mr. Iñaki Paris[1,2], Dr. Jorge Valero[3], Dr. Amanda Sierra[1,2,4]
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PS2-17

TRESK background potassium channel modulates thermal sensitivity in mice

Ms. Anna Pujol-Coma[1], Ms. Emily Eriksson[1], Dr. Gerard Callejo[1,2], Dr. Núria Comes[1,2], Dr. Xavier Gasull[1,2]
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PS2-18

Pre- and postsynaptic organization of C-type synapses on motor neurons are regulated by the different isoforms of Neuregulin 1

Dr. Anna Casanovas[1], Ms. Sara Salvany[1], Ms. Lídia Piedrafita[1], Ms. Sílvia Gras[1], Ms. Alaó Gatius[1], Ms. Alba Blasco[1], Dr. Olga Tarabal[1], Dr. Sara Hernández[1], Prof. Jordi Calderó[1], Dr. Markus H. Schwab[2], Prof. Josep E. Esquerda[1]
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PS2-19

Transcranial direct current stimulation effects across motor cortex layers on awake mice

Dr. Carlos Andres Sanchez Leon[1], Dr. Christoph van Thriel[1], Dr. Michael Nitsche[1]
[1]Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany

PS2-20

The role of caspase 8 in the dopaminergic system

Ms. Isabel María Alonso-Bellido[1,2], Dr. Irene García-Domínguez[1,2], Dr. Irene Suárez-Pereira[3], Dr. Juan Garcia-Revilla[1,2], Prof. Dr. Martiniano Santiago[1,2], Dr. Ana María Espinosa-Oliva[1,2], Dr. Esther Berrocoso, Prof. Dr. José Luis Venero[1,2], Dr. Rocío M. De Pablos[1,2], Dr. Rocío Ruiz[1,2]
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PS2-21

ROLE OF PI3K CATALYTIC ISOFORMS IN NEURONAL METABOLISM

Ms. Alba Fernández-Rodrigo[1], Dr. Carla Sánchez-Castillo[1], Dr. María Isabel Cuartero[2], Mrs. Cristina Boers[1], Dr. José Antonio Esteban[1]
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PS2-22

ROLE OF PI3-KINASE REGULATORY SUBUNIT (P85) IN THE STRUCTURAL PLASTICITY OF DENDRITIC SPINES

Mr. Sergio López García[1], Mr. Pablo Zamorano González[2], Prof. Jose Antonio Esteban García[1]
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PS2-23

The microglial P2Y6 receptor mediates neuronal loss and memory deficits in neurodegeneration

Dr. Mar Puigdellívol[1,2], Dr. Stefan Milde[2], Dr. Anna Vilalta[2], Dr. Tom Cockram[2], Dr. David H. Allendorf[2], Mr. Jeff Lee[2], Dr. Miguel A. Burguillos[2], Ms. Katryna Pampuščenko[3], Dr. Vilmante Borutaite[3], Dr. Hugh N. Nuthall[4], Dr. Jack H. Brelstaff[2], Prof. Maria Grazia Spillantini[2], Prof. Guy C. Brown[2]
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PS2-24

RAS SIGNALING DURING METABOTROPIC GLUTAMATE RECEPTOR DEPENDENT LONG TERM DEPRESSION (mGluR-LTD).

Ms. Esperanza López-Merino[1], PhD. Víctor Briz[1], Ms. Jessie Jiang[1], PhD. Jose A. Esteban[1]
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PS2-25

On the G protein-coupled heteroreceptor complexes neuromodulation of the Claustrum

Mr. Ramon Fores-pons[1,2], **Dr. Manuel Narvaez[1]**, Mr. Alexander Lopez-Salas[2], Dr. Kjell Fuxe[2], Dr. Dasiel Oscar Borroto-Escuela[1,2]
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PS2-26

A comparative study of the somatosensory cortex and the hippocampus in adult mice. From the synaptome to the connectome.

Ms. Marta Turégano-López[1,2], Dr. Andrea Santuy[1,3], Dr. José Rodrigo Rodríguez[1,4], Dr. Ángel Merchán-Pérez[1,5], Dr. Javier DeFelipe[1,4]
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PS2-27

NMDAr BLOCKING BY MK801 PRODUCES SPECIFIC OSCILLATORY CHANGES IN THE HIPPOCAMPUS AND THE PREFRONTAL CORTEX IMPAIRING WORKING MEMORY AND PLACE CELL FIRING

Mr. Pablo Abad Pérez[1,2], Dr. Luis Martínez Otero[2], Dr. Roger Redondo[3], Dr. Victor Borrell[2], Dr. Jorge Brotons Mas[1,2]
[1]Universidad Cardenal Herrera CEU, Elche, Spain, [2]Instituto de Neurociencias UMH-CSIC, Alicante, Spain, [3]Roche Pharma Research and Early Development, Neuroscience and Rare Diseases, Roche Innovation Center, Basel, Switzerland

PS2-28

Age-dependent neural coding in the basal forebrain during a Pavlovian task

Dr. Sergio Martinez Bellver[1,2], Anna Velencei[2], Dr. Nicola Solari[2], Claire-Hélène de Belval[3], Dr. Balazs Hangya[2]
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PS2-29

Dopaminergic blockades decrease physical exercise maintenance response.

Mr. Daniel Garrigos[1], Mr. Alberto Barreda[1], Dr. Marta Martínez-Morga[1], Dr. Angel Toval[1], Mr. Yevheniy Kutsenko[1], Dr. Kuei Y. Tseng[2], Dr. José Luis Ferrán[1]
[1]University Of Murcia, Murcia, Spain, [2]University of Illinois at Chicago, Chicago, United States

PS2-30

Increased excitability of parvalbumin-positive interneurons in premotor cortical area in a mouse model of obsessive-compulsive disorder

Mr. Santiago Reyes-León[1], Mr. Emilio Martínez-Márquez[1], Mrs. Guadalupe Asensio-Gómez[1], Dr. Pablo García-Junco-Clemente[1], Dr. José Luis Nieto-González[1]
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PS2-31

Area-specific patterns of convergent thalamic inputs to the mouse motor cortex

Ms. Carmen Alonso-Martínez[1], Dr. César Porrero[1], Dr. Francisco Clascá[1]
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PS2-32

BBI: A Brain-Bacteria Interface to reveal and compute real-time changes in neuronal activity induced by bacterial presence

Dr. Celia Herrera-Rincon[1,2], Prof. Michael Levin[2], Dr. Antonio Murciano[1], Dr. Francisco Conejero[1], Mrs. Julia Murciano[1], Ms. Martín Garcia-Montes[1]
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PS2-33

Electric fields modulation of epileptiform discharges in the cerebral cortex in vitro

Ms. Joana Covelo[1], Dr. Almudena Barbero-Castillo[1], Ms. Alessandra Camassa[1], Prof. Dr. María Victoria Sánchez-Vives[1,2]
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PS2-34

Human α-synuclein overexpression in mouse serotonin neurons elicits a depressive phenotype: Focus on brain connectivity and synaptic density

Mrs. María Torres-López[1,2], **Mr. Lluís Miquel-Rio[1,2,3]**, Mrs. Verónica Paz[1,2,3], Dr. Carme Casal[1], Mrs. Enma Muñoz-Moreno[4], Dr. Xavier López-Gil[4], Dr. Analia Bortolozzi[1,2,3]
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PS2-35

A neuroanatomical pathway for the integration of pheromonal and spatial information.

Mr. Manuel Esteban. Vila-Martin[1,2], Ms. María. Villafranca-Faus,[2], Ms. Anna. Teruel-Sanchis[1], Mr. Daniel. Esteve[2], Mr. Esteban Merino[2], Dr. Sergio Martínez-Bellver[2], Dra. Joana. Martínez-Ricós[2], Dra. Ana. Cervera-Ferri[2], Dra. Ana. Lloret[2], Dr. Vicent. Teruel-Martí[2], Prof. Enrique Lanuza[1]
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PS2-36

Rotations of prefrontal working memory representations to protect from task interference in a dual-task paradigm

Dr. Alexandre Mahrach[1], Xian Zhang[2,3], Da Li[2,3], Dr Chengyu Tony Li[2,3], Dr Albert Compte[1]
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PS2-37

Understanding the Potential Role of Sirtuin 2 on Aging: Consequences of SIRT2.3 Overexpression in Senescence

Ms. Noemí Sola-Sevilla[1], Dr. Ana Ricobaraza[1], Dr. Rubén Hernandez-Alcoceba[1], Dr. Maria S. Aymerich[1], Dr. Rosa M. Tordera[1], Dr. Elena Puerta[1]
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PS2-38

THE SOCIAL COMPONENT OF ENVIRONMENTAL ENRICHMENT IS A PRO-NEUROGENIC STIMULUS IN ADULT C57BL6 FEMALE MICE

Ms. Elena P. Moreno-Jiménez[1,2,3], Dr. Jesús Ávila[1,3], Dr. María Llorens-Martín[1,3]
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PS2-39

Dealing with motherhood: Gene expression changes induced by pregnancy and lactation but not pup stimuli in the mouse medial amygdala

Dr. Maria Abellán-Álvaro[1], Dr. Guillermo Ayala[2], Dr. Manuela Barneo-Muñoz[3], Dr. Fernando Martínez-García[3], Dr Carmen Agustín-Pavón[1], Dr Enrique Lanuza[1]
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PS2-41

Galanin and neuropeptide Y interactions linked to neuronal precursor cells of the dentate gyrus in the hippocampus. Role in depression and cognitive impairment.

D. Ramon Fores-Pons[1,2], Dr. Dasiel O. Borroto-Escuela[2,3,4], Dª Mariana Pita-Rodriguez[1,2,5], Dr. Miguel A Barbancho[1], Dr. Alexander López-Salas[2], Dª Paloma Rosas-Marqués[1], D. Pablo Zamorano-González[1], Dr. Kjell Fuxe[2], Dra. Natalia Garcia Casares[1, 2], **Dr. Manuel Narvaez[1,2]**
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PS2-42

INDIVIDUAL VARIATION IN DROSOPHILA MELANOGASTER IMPACTS FEEDING BEHAVIOR

Mr. Ruben Molla Albaladejo[1], Mrs. Sara Adelaida Del Rey Mateos[1], Dr. Juan Antonio Sanchez Alcañiz[1]
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PS2-43

Relevance of metalloproteinase-9 in depression: a study in transgenic animal models

Ms. Júlia Senserrich[1,2,3], Dra. Eva Florensa-Zanuy[1,2], Dr. Álvaro Díaz[1,2,3], Dr. Ángel Pazos[1,2,3], Dra. Elena Castro[1,2,3], Dra. Fuencisla Pilar-Cuéllar[1,2,3]
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PS2-44

Effects of chronic CB1 receptor agonist ACEA in a mouse model of Alzheimer's Disease.

Dr. Carla Ramon Duaso[1], Ms. Laura Vidal Palencia[1], Mr. Jose Antonio González Parra[1], Dr. Arnau Busquets Garcia[1]
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PS2-45

The associative striatum mediates flexible expectation-based choice biases

Dr. Carlos Sindreu[1], Dr. Rafael Marín[1], Ms Lorena Jimenez[1], Dr. Yerko Fuentealba[1], Dr. Daniel Duque[1], Dr. Jaime de la Rocha[1]
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PS2-46

Modulation of gut microbiota as a therapeutic approach to improve behavioural deficits in a mouse model of Down syndrome.

Mr. Jose Antonio Gonzalez Parra[1], Dr. Elk Kossatz[1], Ms. Emma Veza[1], Dr. Patricia Robledo[1,2], Dr. Arnau Busquets Garcia[1], Dr. Neus Pizarro[1,3]
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PS2-47

Sub-chronic peripheral cannabinoid type-1 receptor blockade enhances cognitive performance in naïve mice and in a model of fragile X syndrome

Dr. Sara Martínez-Torres[1,2,3], **Ms. Araceli Bergadà-Martínez[1]**, Ms. Lucía de los Reyes-Ramírez[1], Ms. Irene Martínez-Gallego[4], Prof. Antonio Rodríguez-Moreno[4], Prof. Rafael Maldonado[1,5], Prof. Andrés Ozaita[1,5]
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PS2-48

Neuraminidase-induced neuroinflammation causes anxiety and microgliosis in the amygdala

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PS2-49

Evoked neural population activity during static and dynamic visual stimuli recognition: a comparative study based on intracranial EEG

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PS2-50

Epileptogenic biomarkers based on combined power activation and connectivity of iEEG signals

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PS2-51

Finding Useful Biomechanics Markers as Functional Correlates of the Eyelid Movements

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PS2-52

Information transmission in delay-coupled neuronal circuits in the presence of a relay population

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PS2-53

Astrocytic calcium dynamics in multiple sclerosis: regulation by CB1 receptors

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PS2-54

Amyloid propagation in a sporadic model of Alzheimer disease

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PS2-55

Effect of the Src inhibitory peptide TAT-Cx43$_{266-283}$ on neural stem cells with EGFR overexpression or EGFRvIII mutation

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PS2-56

Microglia are key regulators of the innate anti-tumoural response in late adulthood

Mr. Luis Cruz Hernández[1,2], Mrs Maite Sánchez Montero[1,2], Mrs Marta García Cruzado[2], Mrs Isabel María Alonso Bellido[1,2], Dr Manuel Sarmiento Soto[1,2], Dr José Luis Venero Recio[1,2]
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PS2-57

ENDO-LYSOSOMAL DISRUPTION DRIVES MICROGLIAL PHAGOCYTOSIS DYSFUNCTION IN STROKE

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PS2-58

Generation of GRIN-related disorders Zebrafish models library for endophenotypic characterization and pharmacological screening

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PS2-59

High-fat feeding shifts the gut microbiome and accelerates retinal degeneration in retinitis pigmentosa mice

Dr. Oksana Kutsyr[1], Dr. Agustina Noailles[1], Dr. Natalia Martínez-Gil[1], Ms. Lucía Maestre-Carballa[1], Dr. Manuel Martínez-García[1], Dr. Victoria Maneu[1], Dr. Nicolás Cuenca[1], **Dr. Pedro Lax[1]**
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PS2-60

Activating epigenetic modifications are upregulated in the post-mortem brain of schizophrenia subjects: Effects of antipsychotic treatment

Ms. Oihane Martínez-Peula[1], Dr Alfredo Ramos-Miguel[1,2,3], Mr Benito Morentín[4], Dr Callado L.F.[1,2,5], Dr Meana J.J.[1,2,5], Dr Guadalupe Rivero[1,2,5]

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PS2-61

Dysfunctional M2 Cortex-Superior Colliculus-Basal ganglia circuit in Huntington's disease

Ms. Sara Conde-Berriozabal[1,2,3], Ms Lia Garcia-Gilabert[1,2,3], Ms Laia Sitjà-Roqueta[1,2,3], Ms Esther García-García[1,2,3], Dra Emma Muñoz-Moreno[2], Dr Javier López-Gil[2], Dra Guadalupe Soria[2], Dr Manuel J Rodríguez[1,2,3], Dr Jordi Alberch[1,2,3], Dr Mercè Masana[1,2,3]

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PS2-62

Involvement of the neuropeptide cortistatin in neuroinflammation and blood-brain barrier dysfunction in ischemic stroke

Ms. Julia Castillo-González[1], Ms Ana Ubago-Rodríguez[1], Ms Marta Caro[1], Ms Irene Forte-Lago[1], Ms Lara Buscemi[2,3], Mr Pedro Hernández-Cortés[4], Mr Lorenz Hirt[2,3], Ms Elena González-Rey[1]

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PS2-63

Transcriptomic analysis in a fragile X syndrome mouse model after CB1 receptor targeting reveals treatment-associated changes in RNA splicing machinery.

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PS2-64

Increased serotonin 5-HT2A receptor constitutive activity on Gαi1-protein in post-mortem frontal cortex of subjects with schizophrenia

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PS2-65

Functional selectivity of serotonin 5-HT2A receptor drugs on Gαi1-proteins in postmortem human brain cortex

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PS2-66

BCAS1 defines a heterogeneous population in oligodendroglioma and glioblastoma

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PS2-67

Antidepressant actions of ketamine engage cellular mechanisms of endoplasmic reticulum stress by the eIF2α pathway

Mr. Lluís Miquel-Rio[1,2,3], Mr. Unai Sarriés-Serrano[1,2,3], Mrs. Verónica Paz[1,2,3], Mrs. Leticia Campa[1,2,3], Dr. Analia Bortolozzi[1,2,3]
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PS2-68

A closer look at Cux1 heterozygosis in the neocortex, when one copy is not enough

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PS2-69

Immunodensity of dopamine D2, cannabinoid CB1, metabotropic glutamate mGlu2 and mGlu3 receptors in schizophrenia subjects

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PS2-70

Generation and characterisation of new mouse models of TDP-43 proteinopathies including a new genomically humanised Knock-In strain

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PS2-71

A new non-aggregative splicing isoform of human Tau is decreased in Alzheimer's disease.

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PS2-72

Synergistic effects of applying Static Magnetic Fields and Diazepam to Control EEG Abnormalities in an Epileptic Rat Model

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PS2-73

Mitochondrial dysfunction and neurotoxicity induced by frataxin deficiency in astrocytes are attenuated with the Sonic Hedgehog agonist SAG

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PS2-74

Sperm cytoskeleton ODFs genes as a potential mechanism of glioblastoma progression

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PS2-75

Auditory evoked oscillations are altered in UBE3A knock-out rat model of Angelman's syndrome

Ms. Irene Gonzalez-Burgos[1,2,3], Ms. Marie Bainier[1], Dr. Philipp Schoenenberger[1], Dr. Philipp Janz[1], Dr. Miguel Valencia[2,3], Dr. Roger Redondo[1]
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PS2-76

Expression of microglial CX3CR1 in Alzheimer's disease and its regulation by noradrenaline

Ms. Irene Lopez Gutierrez[1], Dra. Marta Gonzalez Prieto[1], Dr. Jose Luis Muñoz Madrigal[1], Dr. Juan Carlos Leza[1]
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PS2-77

Assessment of the integrity of the endothelial junctions and blood-brain barrier disruption in MCT8 deficiency

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PS2-78

The role of extracellular vesicles in Alzheimer's disease: mechanistic insight into intrinsic protection

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PS2-79

Δ9-TETRAHYDROCANNABINOL PROMOTES FUNCTIONAL REMYELINATION IN THE MOUSE BRAIN

Tania Aguado[1,2,3], Alba Huerga-Gómez[1,2,3], Aníbal Sánchez-de la Torre[1,2,3], Eva Resel[1,2,3], Juan Carlos Chara[2,4,5], Carlos Matute[2,4,5], Susana Mato[2,4,5], Ismael Galve-Roperh[1,2,3], Manuel Guzman[1,2,3], **Javier Palazuelos[1,2,3]**
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PS2-80

Astrocytic GLUT1 ablation improves systemic glucose metabolism and promotes cognition

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PS2-81

Hypothalamic anorexigenic and orexigenic gene expression after morning or evening forced wheel exercise in adolescent rats

Mr. Yevheniy Kutsenko[1,2], Mr. Alberto Barreda[2], Dr. Ángel Toval[1,2], Mr. Daniel Garrigos[1,2], Dr. Marta Martínez-Morga[1,2], Prof. Bruno Ribeiro Do Couto[3], Prof. José Luis Ferrán[1,2]
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PS2-82

IGF1 modulates inflammation and phagocytosis in reactive astrocytes through PI3K(p110α) in a sex-specific manner.

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PS2-83

A novel modular toolbox for precise neuronal epigenome editing

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PS2-84

USE OF BIORESORBABLE NANOPATTERNED POLYMER SCAFFOLDS AS A STRATEGY TO GUIDE THE MIGRATION OF NEURAL AND DENTAL STEM AND PROGENITOR CELLS.

Yurena Polo[1,4], Jon Luzuriaga[1], J Iturri[3], Beatriz Pardo-Rodriguez[1], J.L. Toca-Herrera[3], Gaskon Ibarretxe[1], Fernando Unda[1], JR Sarasua[1,4], Aitor Larrañaga[1,4], **Jose R. Pineda[1,2]**
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PS2-85

Generation of an in vitro assay to evaluate antipsychotic drug effects on synaptogenesis

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PS2-86

Virtual Water Maze For Human Memory Assessment Synchronized With Transcranial Magnetic Stimulation

Ms. Arantzazu San Agustín[1,2], Ms. Ana Rojo[1,3], Mr. David Crevillén[1], Mr. Rodrigo Martín[1], Dr. Juan Camilo Moreno[1]
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PS2-87

The women neuroscientists disciples of Pío del Río-Hortega spread the Cajal School through Europe and America

Dr. Cristina Nombela[1], Prof. Elena Giné[2], Dr. Emilio Fernández-Egea[3], Dr. Yulia Worbe[4], **Dr. Fernando de Castro[5]**, Prof. Dr. Juan del Río-Hortega Bereciartu[6]
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PS2-88

DOES RTP801/REDD1 PARTICIPATE IN tRNA METABOLISM?

Mr. Genís Campoy-Campos[1,2], Dr. Adrián-Gabriel Torres[3,4], Mrs Julia Solana-Balaguer[1,2], Dr. Leticia Pérez-Sisqués[1,2], Dr. Lluís Ribas de Pouplana[3,4,5], MD Jordi Alberch[1,2,6,7], Dr. Esther Pérez-Navarro[1,2,6,7], Dr. Cristina Malagelada[1,2,6]

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PS2-89

Small RNA in plasma extracellular vesicles as early biomarkers in Huntington´s disease

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POSTER SESSION 3 - THURSDAY, 4TH NOV. 15:00 - 18:30. Exhibition Hall

PS3-01

Calcium channels in synapse elimination during neuromuscular junction development

Ms. Marta Balanyà Segura[1], Dr. Neus Garcia[1], Mr. Pablo Hernández[1], Dr. Maria A. Lanuza[1], Dr. Marta Tomàs[1], Mr. Víctor Cilleros-Mañé[1], Ms. Laia Just-Borràs[1], Ms. Maria Duran-Vigara[1], Ms. Aleksandra Polishchuk[1], Dr. Josep Tomàs[1]
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PS3-02

Effects of shortening the habituation protocol on exercise capacity during adolescence of rats

Dr. Marta Martínez[1], Angel Toval[1], Yevheniy Kutsenko[1], Dr. Antonia Alonso[1], Daniel Garrigós[1], Alberto Barreda[1], Bruno Ribeiro Do Couto[1], Ferrán Jose Luis[1]
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PS3-03

Development of Otp and Sim1 cells in the chicken extended amygdala

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PS3-04

Analysis of the activation dynamics of postnatal neural stem cells of the subventricular zone using in utero electroporation

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PS3-05

Conserved cell types in the early embryonic brain across vertebrates

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PS3-06

Unravelling the Neural Cell Progeny of Single Subpallial Progenitor Cells

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PS3-07

Understanding the mechanisms involved in migration and circuit integration of thalamic interneurons

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PS3-08

Differential expression levels of Sox9 in early neocortical radial glial cells regulate the decision between stem cell maintenance and differentiation.

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PS3-09

Lineage Cell-Potential of Single Neural Progenitor Cells

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PS3-10

Microglia gradually acquire their mature phenotype in the developing hippocampus

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PS3-11

The sound of sight: mapping crossmodal circuits of audio-visual connectivity in the mammalian brain.

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PS3-12

TREK channels and their physiological role in the intracardiac neurons: focusing on temperature and intracellular acidification

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PS3-13

Impaired striatal plasticity and dendritic spine remodeling in the premotor stage of an animal model of progressive parkinsonism

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PS3-14

NMDA RECEPTOR CONTENT OF EXCITATORY SYNAPSES IN THE CA1 REGION OF THE HIPPOCAMPUS IS REDUCED IN P301S MICE

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PS3-15

REDUCTION IN THE DENSITY OF GROUP I MGLU5 RECEPTORS ALONG THE NEURONAL SURFACE OF HIPPOCAMPAL CELLS IN A MOUSE MODEL OF ALZHEIMER´S DISEASE

Ms. Ana Esther Moreno Martínez[1], Alejandro Martín-Belmonte[1], Carolina Aguado[1], Rocío Alfaro-Ruíz[1], Jose Luis Albasanz[2], Mairena Martín[2], Yugo Fukazawa[3], Rafael Luján[1]

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PS3-16

Trans-synaptic effects after inducing long-term potentiation in the hippocampal circuit

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PS3-17

Modulation of the presynaptic translatome by astrocytic extracellular vesicles in Alzheimer's Disease

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PS3-18

Contribution of astrocyte extracellular vesicles to local translation in neurons

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PS3-19

Comparative effect of Glutamatergic Receptors Agonists N-Methyl-D-Aspartate and Kainate on Mouse Inner Retinal Cells

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PS3-20

M1 and M2 muscarinic receptors coordinately regulate the exocytotic proteins through PKC and PKA at the adult neuromuscular junction.

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PS3-21

EFFECTS OF TRANSCRANIAL DIRECT-CURRENT STIMULATION (tDCS) ON THE FIELD POTENTIAL INDUCED BY PHOTOSTIMULATION OF GLUTAMATERGIC CELLS IN SOMATOSENSORY CORTEX

Ms. Marta Estévez-Rodríguez[1], Mr. Guillermo Sánchez-Garrido Campos[1], PhD Isabel Cordones[1], PhD Javier Márquez-Ruiz[1]
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PS3-22

Effect of Sei and Fin whale Müller glia in the survival and neurite growth of RGCs in vitro.

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PS3-23

Chemogenetic stimulation of mature oligodendrocytes drives myelin-axon metabolic coupling and prevents axonal damage

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PS3-24

Dopamine receptors in oligodendroglia

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PS3-25

Astrocytic Network Heterogeneity in the Nucleus Accumbens

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PS3-26

MONITORING OF ABERRANT NEUROGENESIS IN HIPPOCAMPUS DURING IN VITRO EPILEPTOGENESIS

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PS3-27

RNA localisation and local translation in microglial peripheral processes

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PS3-28

Role of GABAA and AMPA receptors in the generation and propagation of epileptiform activity in the cingulate cortex of a mouse model of lissencephaly.

Dr. Abraham Andreu-Cervera[1], Ms. Paula Martín-Climent[1], Ms. Raquel Murcia-Ramón[1], Dr. Eduardo Domínguez-Sala[1], Dr. Diego Echevarría[1], Prof. Salvador Martínez[1], Prof. Emilio Geijo-Barrientos[1]
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PS3-29

Expression of c-Fos in the vomeronasal amygdala and lateral entorhinal cortex of female mice induced by male pheromonal signals.

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PS3-30

LACK OF AVERSIVE BEHAVIOR IN FEMALE MICE EXPOSED TO PREDATOR ODORS

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PS3-31

The amygdalo-hippocampal pathway: the first step to the who component of the episodic memory

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PS3-32

Input-output relationships of the posterior intralaminar thalamic nuclei in the mouse

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PS3-33

Prefrontal-hippocampal circuit alterations and rescue in a mouse model of schizophrenia

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PS3-34

Ultrastructural comparison of VPM thalamocortical synapses in primary and secondary somatosensory cortices

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PS3-35

SPATIAL PERIODIC FIRING IN THE SUBICULUM OF MICE

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PS3-37

Involvement of the prefrontal cortex-limbic pathway in the development of food addiction

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PS3-38

Neural mechanisms of serial dependence across visual hemifields and bilateral prefrontal cortex

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PS3-39

Neuronal activity reflecting sensory and behavioural variables in the mouse somatosensory and posterior parietal cortex

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PS3-40

Neural probes for multimodal interrogation of brain lamination

Dr. María Teresa Jurado Parras[1], Dr. Elena Cid, Dr. Filippo Pisano[2], Dr. Maria Samuela Andriani[2], Dr. Antonio Balena[2], Dr. Marco Pisanello[2], Dr. Massimo De Vittorio[2,3], Dr. Ferruccio Pisanello[2], Dr. Liset M de la Prida[1]
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PS3-41

Cognitive effects of physical exercise are inherited by the second generation

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PS3-42

A scalable and physical approach to the study of spatial navigation and its components

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PS3-43

A study of the pain pathways in the context of fear memories

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PS3-44

Physiology of hormetic effects of exercise on cognitive enhancement: miRNA and microbiota involvement

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PS3-45

Conditional deletion of the Cntnap2 gene in mice: a phenotypic study

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PS3-46

Cerebellar Interpositus Nucleus Activities Underlying Classical Eyeblink Conditioning in Rabbits

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PS3-47

Characteristics of the spontaneous blinking depending on the attentional conditions and the sensory nerve activity from the ocular surface

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PS3-48

Sensory independent history choice biases in auditory categorization tasks in rats

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PS3-49

Coaching and Human Brain Creativity Mechanisms

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PS3-50

MicroRNAs signatures for vulnerability to food addiction.

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PS3-51

EXPLORING NETWORK CODING STRATEGIES THAT COULD BE ESSENTIAL FOR THE PROPER EXECUTION OF BEHAVIORAL SEQUENCES DURING AN OPERANT CONDITIONING TASK

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PS3-52

The steroid sulfatase inhibitor STX64 improves age-associated cognitive deficiencies

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PS3-53

One-shot learning in recurrent networks using behavioral time-scale plasticity

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PS3-54

META-ANALYSIS ON NEURAL DATA: A COMPARISON BETWEEN DIFFERENT APPROACHES TO SPIKE-SORTING ON CLAUSTRUM MULTI-UNITARY ACTIVITY

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PS3-55

Specialized prefrontal circuits explain population dynamics during working memory encoding and maintenance

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PS3-56

Synaptic extension of the bump attractor model predicts target-distractor onset asynchrony effects

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PS3-57

STUDY OF BONE MARROW-DERIVED MICROGLIAL CELLS IN A MODEL OF SELECTIVE NEURODEGENERATION

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PS3-58

The loss of starburst amacrine cells and their synaptic contacts with dopaminergic amacrine cells may explain the visual motion perception disturbance in Parkinson's disease.

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PS3-59

CONTRIBUTION OF THE PRIMARY SOMATOSENSORY CORTEX TO REFLEX BLINK IN NAÏVE AND TEAR-DEFICIENT RATS

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PS3-60

MATERNAL SEPARATION DECREASES THE EXPRESSION OF DOUBLECORTIN IN THE OLFACTORY SYSTEM OF BOTH MEPC2-HETEROZYGOUS FEMALE MICE AND THEIR HEALTHY CONTROLS

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PS3-61

Acute cocaine enhances dopamine D2R recognition and signalling and counteracts D2R internalization in Sigma1R-D2R heteroreceptor complexes

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PS3-62

Dysregulation of the autophagic-lysosomal pathway in Parkinson's disease associated to GBA

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PS3-63

P53 DEPLETION PROMOTES NEOVASCULARIZATION AND BRAIN REPAIR AFTER INTRACEREBRAL HEMORRHAGE

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PS3-64

Morphometric Cluster Analyses of Sibling NG2-Cells in Response to Multiple Sclerosis Lesion Models

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PS3-65

Impact of white adipose tissue in AD pathology

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PS3-66

The role of the striatopallidal indirect pathway in the generation of L-DOPA induced dyskinesias

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PS3-67

Dopamine D4R restores morphine-induced impairment of adult neurogenesis in the subventricular zone

Dr. Belén Gago Calderón[1], Dr. M. Ángeles Real Avilés[1], Marina Ponce Velasco[1], Dr. Alicia Rivera Ramírez[1]
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PS3-68

Role of dopamine D4 receptor in the development of morphine-induced analgesic tolerance

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PS3-69

Oligodendrocyte maturation and myelination: Implications of deficient thyroid hormone transport to the brain.

Mr. Víctor Valcárcel Hernández[1], Ms. Marina Guillén Yunta[1], Ms. Inés López de Toledo Soler[1], Dr. Soledad Bárez López[1,2], Dr. Ana Guadaño Ferraz[1]

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PS3-70

Faim knockout leads to gliosis and late-onset neurodegeneration of photoreceptors in the mouse retina

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PS3-71

Effect of macrophages on neurosphere formation and neuronal differentiation of neural stem cells

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PS3-72

Bile acids reduce glycolysis in proinflammatory macrophages

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PS3-73

The effect of bone marrow derived- mesenchymal stem cells on a novel in vitro model of X-linked adrenoleukodystrophy

Ms. Claudia Pérez-García[1,2], Dra María Luisa Molina-Gallego[2], Dr Carlos Bueno-López[2], Dr Emilio Geijo-Barrientos[2], Dr Salvador Martínez-Pérez[2]

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PS3-74

GABAB-receptor activation partially restores network dysfunction associated with NMDA-receptor hypofunction

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PS3-75

Deciphering the molecular mechanism of Plk1 control of adult neural stem cell activation, self-renewal and differentiation

Coral López-Fonseca[1,2], Ana Laura Barrios-Muñoz[1,2], José Manuel Morante-Redolat[3], Isabel Fariñas[3], Marcos Malumbres[4], Francisco Zafra[1,2], Eva Porlan[1,2]
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PS3-76

New experimental models for the study of Friedreich's Ataxia

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PS3-77

Tauroursodeoxycholic acid supports early functional recovery of rats with spinal cord injury but does not improve effects of transplanted bone marrow-derived stromal cells

Ms Siyu Wu[1,2], Dr. Lorenzo Romero Ramírez[1], Mr Johannes de Munther[3], Mr Erik Ch. Wolters[3], Prof. Boris W. Kramer[2], **Prof. Jörg Mey[1,2]**
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PS3-78

NEUROPROTECTIVE EFFECT OF REMOTE ISCHEMIC PERCONDITIONING AND POSTCONDITIONING IN A PRECLINICAL MOUSE MODEL OF ACUTE ISCHEMIC STROKE

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PS3-79

ROLE OF THE IMPRINTED GENE CDKN1C IN THE DIFFERENTIATION PROCESS OF NEURAL STEM CELLS

Ms. Laura Lázaro-Carot[1], Dra. Anna Lozano-Ureña[1], Mr. Esteban Jiménez-Villalba[1], Mr. Pere Duart[1], Ms. Isabel Mateos-White[1], Dra. Cristina Gil-Sanz[1], Dra. Isabel Fariñas[1], Dra. Martina Kirstein[1], Dra. Sacri R. Ferrón[1]
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PS3-80

An in vivo reprogramming model to study glioblastoma formation

Mr. Esteban Jiménez-Villalba[1], Dr. Anna Lozano-Ureña[1], Ms. Isabel Mateos-White[1], Dr. Manuel Serrano[2], Dr. Cristina Gil-Sanz[1], Dr. Isabel Fariñas[1], Dr. Sacri R Ferrón[1]
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PS3-81

Comparing astroglial reactivity in two transgenic mouse models of tauopathy

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PS3-82

COMBINED CELL AND GENE THERAPIES STOP MITRAL CELL DEATH IN PCD MICE

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PS3-83

WHY THE LOBULE X OF THE CEREBELLUM RESISTS THE NEURODEGENERATION OF THE PCD MOUSE?

Carlos Hernández-Pérez[1,2,3], Valeria Lorena Cabedo Navarro[1,2,3], Dr. Jesús García Briñón[1,2,3], Dr. Eduardo Weruaga Prieto[1,2,3], **Dr. David Díaz López[1,2,3]**
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PS3-84

Natural IgMs that bind to the neo-epitopes present in corpora amylacea of the human brain recognize carbohydrate structures

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PS3-85

Neo-epitopes from corpora amylacea in the human brain do not have a peptidic nature

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PS3-86

INSULIN-LIKE GROWTH FACTOR I COUPLES METABOLISM WITH CIRCADIAN ACTIVITY THROUGH HYPOTHALAMIC OREXIN NEURONS

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PS3-87

DESIGN AND IMPLEMENTATION OF A METHOD TO STUDY LARYNGEAL RESISTANCE DURING THE STIMULATION OF CUNEIFORM NUCLEUS (CnF) IN SPONTANEOUSLY BREATHING ANAESTHETIZED RATS

Ms. Marta Gonzalez-Garcia[1,2,3], Mr. Manuel Victor Lopez-Gonzalez[1,2,3], Ms. Laura Carrillo-Franco[1], Ms. Amelia Diaz-Casares[1,2,3], Dr. Marc Stefan Dawid-Milner[1,2,3]

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PS3-88

Imaging of synapses in 3D with non-destructive synchrotron X-ray ptychography

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PS3-89

Obtention and characterization of exosomes for non-invasive epilepsy monitoring

Laura Zeballos Fernández[1,2], Mario García Hernández[1], Dr. David Sánchez Benito[1,2], Jaime Gonçalves Sánchez[2], Dra. María Dolores Calabria Gallego[2], Dr. Ricardo Gómez Nieto[1,2], Dra. Mª Dolores E. López García[1,2]
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PS3-90

GENE THERAPY WITH VMAT2 REDUCES AGE-DEPENDENT NEUROMELANIN ACCUMULATION AND PREVENTS PARKINSON'S DISEASE PHENOTYPE IN NEUROMELANIN-PRODUCING RATS

Mr. Joan Compte Barrón[1], Dr. Marta González-Sepúlveda[1], Mrs. Alba Nicolau Vera[1], Dr. Thais Cuadros Arasa[1], Mr. Jordi Giménez-Romero[1], Mrs. Annabelle Parent[1], Dr. Ariadna Laguna Tuset[1], Dr. Miquel Vila Bover[1,2,3]
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PS3-91

Age-related changes in the neuromuscular junction and skeletal muscle of C57BL/6J mice

Ms. Alba Blasco[1], Ms. Sílvia Gras[1], Dr. Guillem Mòdol-Caballero[2], Dr. Olga Tarabal[1], Dr. Anna Casanovas[1], Ms. Lídia Piedrafita[1], Dr. Alejandro Barranco[3], Dr. Tapas Das[4], Dr. Sara Hernández[1], Ms. Sara Salvany[1], Ms. Alaó Gatius[1], Dr. Suzette L. Pereira[4], Prof. Xavier Navarro[2], Dr. Ricardo Rueda[3], Prof. Josep Enric Esquerda[1], Prof. Jordi Calderó[1]
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PS3-92

Developmental neurotoxicity effects of nanoplastics in zebrafish embryo and human neural stem cell models

Dr. Monica Torres-Ruiz[1], Dr. Maria del Carmen González Caballero[1], **Dr. Isabel Liste[2]**, Ms. Mercedes De Alba González[1], Ms. María Gallego Rodríguez[1], Ms. Carla García López[1], Dr. Ana Isabel Cañas Portilla[1]
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PS3-93

Brief assessment of social cognition in "ataxia da Costa da Morte"

Dr. Rocío Martínez-Regueiro[1], Dr. Montse Fernández-Prieto[2], Dr. M.J. Sobrido[2], Dr Manuel Arias[3]
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PS3-94

Aging effects on emotional regulation are supported by differential neural networks as predicted by machine learning paradigms

Dr. Elena Solesio-jofre[1], Prof. Ángela Fernández-Pascual[2], Mrs. María Hernández-Lorca[1], Dr. Elisabet Rodríguez-Alzueta[3], Prof. Luis Carretié[1]
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PS5-71

Functional and morphological study of transient ischemia-reperfusion in adult pigmented mice

Mr. Alejandro Gallego Ortega[1], Ms. María Norte Muñoz[1], Mr. Juan Antonio Miralles de Imperial Ollero[1], Dr. Francisco Javier Valiente Soriano[1], Prof. Pedro De la Villa[2], Prof. Manuel Vidal Sanz[1]
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POSTER SESSION 4 - FRIDAY, 5TH NOV. 09:00 - 12:30. Exhibition Hall

PS4-01

Dispersion and fate of pallial progenitors within the adult forebrain

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PS4-02

Perturbation of adherens junctions associated proteins in the neocortex affects neurodevelopmental pathways causing cognitive and social deficits in mice

Mr. David de Agustín-Durán[1], Ms. Alba Marín-Garnes[1], Ms. Ana Pérez-Villalba[2], Ms. Isabel Mateos-White[1], Mr. Jaime Fabra-Beser[1], Dra. Cristina Gil-Sanz[1]
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PS4-03

Transcriptomic correlation of the topographic afferent innervation distribution in the habenular complex.

Ms. Iris Juárez-Leal[1], Ms. Estefanía Carretero-Rodríguez[2], Ms. Francisca Almagro-García[1], Prof. Salvador Martínez[1], Dr. Diego Echevarría[1], Dr. Eduardo Puelles[1]
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PS4-04

Developmental origin of adult neurogenesis: Analysis of the postnatal hipocampal neurogenic niche in Sox5 conditional mutants

Cristina Medina Menéndez[1], Lingling Li[1], María Valdés[1], Rafael López-Sansegundo[1], Inés Colmena[1], Véronique Lefebvre[2], Aixa V. Morales[1]
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PS4-05

Organization of GABAergic interneurons in the cingulate cortex of an animal model of lissencephaly: the Lis1/sLis1 mouse

Ms. Paula Martín-Climent[1], Dr. Abraham Andreu-Cervera[1], Ms. Raquel Murcia-Ramón[1], Dr. Diego Echevarría[1], Prof. Salvador Martínez[1], Prof. Emilio Geijo-Barrientos[1]
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PS4-06

Effects of Lis1 gene loss in parvalbumin expressing cells on the mouse hippocampal cytoarchitectonics

Ms. Ana María Jiménez[1], Dr. Abraham Andreu-Cervera[1], Ms. Francisca Almagro-García[1], Dr. Eduardo Puelles[1], Dr. Diego Echevarría[1], Prof. Emilio Geijo-Barrientos[1], Prof. Salvador Martínez[1]
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PS4-07

Cerebellar abnormalities in a conditional mouse mutant of the Lis1 gene

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PS4-08

Cerebral cortex development is coordinated by mitochondrial reactive oxygen species

Ms. Regina Mengual[1,2], Dr. Cristina Rodríguez[1,2], Dr. Verónica Bobo-Jímenez[1,2], Dr. María Delgado-Esteban[1,2], Prof. Juan Pedro Bolaños[1,2,3], Dr. Angeles Almeida[1,2]
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PS4-09

The impact of NMDA receptor subunit GluN3A deletion on the brain activity of young and adult mice

Ms. Alicia Alonso-Andres[1], Dr. Oliver Crawley[1], Ms. Ana Isabel Navarro[1], Dr. John F. Wesseling[1], Dr. Isabel Pérez-Otaño[1], Dr. Ramon Reig[1]
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PS4-10

In vitro study of neurodevelopment in Huntington's disease

Dr. Phil Sanders[1,2,3,4,5], Dr. Waseem Abbas[1,2], Dr. Anna Esteve-Codina[6,7], Dr. Gustavo Rodriguez-Esteban[1,2,6,7], Georgina Bombau[1,2,3,4,5], Mireia Galofré[1,2,3,4,5], Andrea Honrubia[1,2,3,4,5], Dr. Holger Heyn[6,7], Prof. Petia Radeva[8,9], Dr. Josep M. Canals[1,2,3,4,5]
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PS4-11

Increased GABA levels in postnatal development alter cortical inter-hemispheric circuits

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PS4-12

CB1 RECEPTORS DEFICIENCY IN OLIGODENDROCYTE PRECURSORS DISRUPTS POSTNATAL OLIGODENDROGENESIS AND CAUSES HYPOMYELINATION IN MICE

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PS4-13

NMDA receptors containing GluN3A subunits influence myelination during development and after injury

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PS4-14

COGNITIVE FUNCTIONS THAT RELY ON DORSAL HIPPOCAMPAL SYNAPTIC PLASTICITY PROCESSES INVOLVE A G-PROTEIN DEPENDENT MECHANISM THROUGH ADENOSINE A1 RECEPTOR-ACTIVATED GIRK CHANNELS

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PS4-15

Morphological Characterization of the Whale Retina

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PS4-16

Characterization of Primary and Immortalized Whale Müller Glial Cells

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PS4-17

Impact of aging on the structure and NMDA receptor expression of somatostatin expressing hippocampal interneurons

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PS4-18

Competition of transcriptional programs for transcriptional co-activators upon neuronal activation

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PS4-19

Signaling mediated by the CREB-regulated transcription coactivator-1 (CRTC1) regulates NMDA-dependent synaptic plasticity

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PS4-20

Aging entails motoneuron deafferentation and neuroinflammation in the mouse spinal cord

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PS4-21

The Y172 antibody against phospho-c-Jun (Ser63) selectively detects an unidentified protein present in motoneurons and Schwann cells, two sidekicks of the neuromuscular system

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PS4-22

Effects of balanced vs. deficient omega-3 fatty acid diets on adult hippocampal neurogenesis and glia

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PS4-23

Afferent synaptic terminals on spinal cord motor neurons are acutely disrupted after peripheral nerve transection: involvement of necroptotic pathway and microglial piecemeal phagocytosis

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PS4-24

Relationship of FAIM-L and Ovarian Tumor (OTU) Deubiquitinases in synaptic remodelation

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PS4-25

Potential neuroprotective role of lysophosphatidic acid receptor 1 overexpression by hippocampal neurons in a model of temporal lobe epilepsy

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PS4-26

The primary cilium as an organelle for astrocyte-neuron communication.

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PS4-27

Transgenic expression of mutant versions of CSPalpha/DNAJC5 causes lipofuscinosis in mice

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PS4-28

A mouse genetic strategy to investigate the role of CSP alpha/DNAJC5 in glutamatergic synaptic function and maintenance

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PS4-29

Acute genetic elimination of a synaptic co-chaperone in adulthood to study protein stability in neurodegeneration

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PS4-30

Nucleus Accumbens Astrocytes Control The Cognitive Impairment Derived From Chronic Exposure To THC

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PS4-31

A critical period for the itch spinal cord neural circuit?

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PS4-32

AN ANALISYS OF TIMING CORRELATION REVEALS THAT MOTOR CORTEX NEURONS ARE RELATED, BUT NOT THE ORIGIN, OF CLASSICALLY CONDITIONING EYELID AND VIBRISSAE RESPONSES IN MICE

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PS4-33

LARYNGEAL EFFECTS OF STIMULATION OF THE CUNEIFORM NUCLEUS IN SPONTANEOUSLY BREATHING ANAESTHETIZED RATS

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PS4-34

Noradrenaline innervation and Alpha adrenoceptors in the human and macaque higher-order thalamic nuclei.

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PS4-35

Surprisingly dense projections from the ventral nucleus of the trapezoid body to the dorsal cochlear nucleus

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PS4-36

The power spectrum determines subthalamic beta bursts dynamics in Parkinson's disease

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PS4-37

SECRETAGOGIN EXPRESSION IN THE MOUSE BRAIN

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PS4-38

Identification of a fast hippocampal recognition system in humans using intracerebral evoked potentials

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PS4-39

Chronic sensory deprivation alters cortical rhythms in the somatosensory cortex

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PS4-40

Investigating the role of auditory cortex on decisions about sound lateralization

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PS4-41

Interference-based forgetting in a goal-directed spatial navigation task for rodents.

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PS4-42

Inhibition in a midbrain circuit controlling instinctive escape decisions

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PS4-43

Functional analysis of cholinergic neuromodulation of chandelier cells from single-cell to circuit

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PS4-44

Perceptual decisions results from the accumulation of unpredicted sensory evidence

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PS4-45

PSICOICTUS: EVALUATION AND PROGNOSIS OF AFFECTIVE AND COGNITIVE DISORDERS AFTER MINOR STROKE

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PS4-46

Non-conventional GluN3A expression gates memory formation by limiting synaptic mTOR signaling in juvenile and adult mice

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PS4-47

The Hot Brain Hypothesis and a new type of interaction. A research on stress

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PS4-48

Stress research and implications for the neuropsychiatric classification of emotion related brain functioning

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PS4-49

DREAM protein inhibition as potential treatment against metabolic syndrome and its associated neurologic signs

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PS4-50

Is your gaze your aim? Eye position in reward gambling and the role of orbitofrontal cortex in encoding the value of visually cued offers.

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PS4-51

Behavioral mechanisms underlying visually-guided control of steering

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PS4-52

A novel visuospatial working memory task in mice

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PS4-53

Mechanisms of post-stroke cognitive impairment: hippocampal involvement

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PS4-54

A role of 14-3-3ζ in transformation of labile short-term object recognition memory into stable long-term memory

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PS4-55

Role of the galanin N- terminal fragment (1-15) in the mesolimbic dopaminergic system

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PS4-56

EPILEPTIC SEIZURE PREDICTION WITH A LSTM NETWORK

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PS4-57

Bump attractor dynamics underlying stimulus integration in perceptual estimation tasks

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PS4-58

The inverse problem in intracerebral field potentials: a reappraisal of volume-conducted and local field potentials.

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PS4-59

STRIATUM-ENRICHED TRANSCRIPTION FACTOR FOXP2 AMELIORATES EARLY PSYCHIATRIC-LIKE DISTURBANCES AND MOLECULAR ALTERATIONS IN HUNTINGTON´S DISEASE

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PS4-60

Parvalbumin interneurons and perineuronal nets in the hippocampus and retrosplenial cortex of a murine double hit model for schizophrenia

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PS4-61

Thalamus reticular nucleus alterations in response to peripubertal stress in female and male mice

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PS4-62

THE EFFECT OF NEUROTROPHIC FACTORS ON THE CEREBELLAR DESTRUCTURATION ASSOCIATED WITH AUTISM SPECTRUM DISORDERS

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PS4-63

DETECTION OF BACTERIAL LIPOPOLYSACCHARIDE AND TRANSPORT MECHANISMS IN THE PREFRONTAL CORTEX OF ALCOHOL BINGE DRINKING-EXPOSED RATS

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PS4-64

UPREGULATION OF TLR4 SIGNALLING PATHWAY AND BEHAVIORAL DISHINIBITION IN WERNICKE-KORSAKOFF SYNDROME: EVIDENCE FROM AN ANIMAL MODEL AND HUMAN POST-MORTEM TISSUE

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PS4-65

Non-motor symptoms and neuronal alterations in a comorbidity mice model of depression and Parkinson's disease

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PS4-66

A Synthetic Analogue of Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP) Improves Motor and Cognitive Deficits in R6/1 Mouse Model of Huntington's Disease

Ms. Irene Solés-Tarrés[1], PhD Jérôme Leprince[5], Ms. Anna Sancho-Balsells[2,3,4], PhD Albert Giralt[2,3,4], PhD Jordi Alberch[2,3,4], PhD David Vaudry[5], PhD Xavier Xifró[1]
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PS4-67

STEREOLOGICAL ANALYSIS OF NEURONS AND GLIA IN THE SUBICULAR COMPLEX IN ALZHEIMER'S DISEASE

Ms. Veronica Astillero-lopez[1], Ms. Sandra Villar-Conde[1], Ms. Melania Gonzalez-Rodriguez[1], Dr. Alicia Flores-Cuadrado[1], Dr. Isabel Ubeda-Banon[1], Prof. Alino Martinez-Marcos[1], Dr. Daniel Saiz-Sanchez[1]
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PS4-68

ROS-INDUCED SP1 REGULATES WRAP53 LEVELS AND NUCLEAR ACCUMULATION LEADING TO NEUROPROTECTION AFTER ISCHEMIA

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PS4-69

THE VPA MURINE MODEL OF AUTISM: DIFFICULTIES AND ACHIEVEMENTS RELATED TO ITS OBTAINMENT AND ANALYSIS

Valeria Lorena Cabedo Navarro[1,2,3], Carlos Hernández-Pérez[1,2,3], Pablo González Téllez de Meneses[1,2,3], Dr. Eduardo Weruaga Prieto[1,2,3], Dr. David Díaz López[1,2,3], Dr. José Ramón Alonso Peña[1,2,3]
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PS4-70

Immature oligodendrocytes with R-Ras1 and R-Ras2 deficiency produce axonal degeneration

PhD student Berta Alcover-Sanchez[1], Master student Gonzalo Garcia-Martin[1], Master student Juan Escudero-Ramirez[1], PhD Carolina Gonzalez-Riano[2], Paz Lorenzo[2], Dr. Alfredo Gimenez-Cassina[1], Dr. Laura Formentini[1], Dr. Pedro de la Villa-Polo[3,4], Dr. Marta Pereira[1], Dr. Francisco Wandosell[1], **Dr. Beatriz Cubelos[1]**

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PS4-71

Inflammation And Autophagy In Glycogen-Induced Neurodegeneration

Dr. Jordi Duran[1,2,3,7], Dr. Pasquale Pellegrini[1], Dr. Arnau Hervera[3,4,5,6], Dr. Olga Varea[1], Dr. Iliana López-Soldado[1], Prof. Jose Antonio del Río[3,4,5,6], Prof. Joan J. Guinovart[1,2,5]

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PS4-72

Age-dependent multisystem parkinsonian features in a novel neuromelanin-producing transgenic mouse model

Ms. Nuria Peñuelas[1], Dr Ariadna Laguna[1], Dr Marta Gonzalez-Sepulveda[1], Mr Lluís Miquel-Rio[2], Dr Helena Xicoy[1], Mr Joan Compte[1], Ms Alba Nicolau[1], Ms Marina Lorente-Picón[1], Mr Jordi Romero-Giménez[1], Ms Annabelle Parent[1], Dr Thais Cuadros[1], Dr Analía Bortolozzi[2], Dr Iria Carballo-Carbajal, Dr Miquel Vila[1,3,4]

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PS4-73

DIAZEPAM ADMINISTRATION IN THE INTRAHIPPOCAMPAL KAINIC ACID ANIMAL MODEL OF EPILEPSY RESCUE BRAIN FDG-PET HYPOMETABOLISM IMAGING

Ms. Nira Hernández[1], Ms. María Gómez[1], Mr. Guillermo Santamaría[2], Mr. Rubén Fernández[1], Dr. Luis García[1,3], Dr. Mercedes Delgado[1], Dr. Francisca Gómez[1], Dr. Eduardo Martín[4], Prof. Miguel Ángel Pozo[1,3]

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PS4-74

Activation of SGK1.1 up-regulates the M-current in presence of epilepsy mutations

Ms Elva Martin-Batista[1,2], Mr Rian Manville[3], Mr David Bartolome-Martin[1,2], Ms Belinda Rivero[1,2], Mr Geoffrey Abbott[3], Mr Diego Alvarez de la Rosa[1,2], Ms Teresa Giraldez[1,2]
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PS4-76

Role of the NMDAR-NR2B subunits in the function of supramolecular NMDAR-BK complexes.

Ms. Rebeca Martinez-Lazaro[1,2], Dr. David Bartolome-Martin[1,2], Dr. Ricardo Gomez[1,2], Dr. Teresa Giraldez[1,2]
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PS4-77

FAIM-L as a modulator of Tau-pathology in Alzheimer's disease and other tauopathies

Raquel Badillos-Rodríguez[1,2,4], Carlos Soto[2,4], Dr. Carles A. Saura[2,4], Dr. Albert Giralt[3,4], Dr. Jordi Alberch[3,4], Dr. Montse Solé[1,2,4], Dr. Joan X. Comella[1,2,4]
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PS4-78

The overexpression of NRG1-type III does not ameliorate ALS clinical outcome in hSOD1G93A mouse model.

Dr. Sara Hernandez[1], Dr. Anna Casanovas[1], Ms. Sara Salvany[1], Dr. Olga Tarabal[1], Ms. Alba Blasco[1], Ms. Alaó Gatius[1], Ms. Silvia Gras[1], Ms. Lidia Piedrafita[1], Dr. Markus Schwab[2], Dr. Jordi Calderó[1], Dr. Josep Esquerda[1]
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PS4-79

Generation and characterization of human pluripotent stem cell (hPSC)-derived astrocytes to model Alzheimer´s disease.

Ms. María Alfonso Triguero[1,2], **Mr. Joan Cruz Sesé[1,2]**, Ms Nuria Galbis Gramage[1], Ms Isabel Jiménez Ridruejo[1], Dr. Elena Alberdi Alfonso[1,2,3], Dr. Amaia Arranz Mendiguren[1,4]
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PS4-80

Three-dimensional synaptic organization of hippocampal CA1 stratum lacunosum-moleculare in Alzheimer's disease

Dr. Marta Montero Crespo[1,2], Prof. Javier De Felipe Oroquieta[1,2,3], Dr. Lidia Blázquez Llorca[1,2,4]
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PS4-81

The Gut-Brain Axis in a novel humanized transgenic mouse model for Parkinson´s disease and brain aging

Ms. Marina Lorente Picón[1], Dr. Miquel Vila[1,2,3], Dra. Ariadna Laguna[1]
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PS4-82

Purification and characterization ofhPSC-derived striatal progenitor subpopulations for transplantation in Huntington's Disease

Mr. Francisco J Molina Ruiz[1,2,3,4,5], Dr. Phil Sanders[1,2,3,4,5], Ms. Cinta Gomis López[1,2,3,4,5], Ms. Georgina Bombau Martínez[1,2,3,4,5], Ms. Mireia Galofré Centelles[1,2,3,4,5], Ms. Silvia Artigas Fernández[1,2,3,4,5], Ms. Clelia Introna[1,2,3,4,5], Ms. Verónica Monforte Pizarro[1,2,3,4,5], Dr. Josep M Canals Coll[1,2,3,4,5]
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PS4-83

Unravelling the distribution and function of the lipid transfer protein VPS13A in the brain to understand chorea acanthocytosis pathology

Ms. Esther García-García[1,2,3], Ms. Nerea Chaparro-Cabanillas[1,2,3], Mr. Albert Coll-Manzano[1,2,3], Ms. Maria Carreras-Caballé[1,2,3], Dr. Albert Giralt[1,2,3], Dr. Daniel del Toro[1,2,3], Dr. Mercè Masana[1,2,3], Dr. Jordi Alberch[1,2,3], Dr. Manuel José Rodríguez[1,2,3]
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PS4-85

CHRONICALLY INCREASING CORTICOSTRIATAL ACTIVITY PRODUCES STRIATAL ASTROCYTOSIS IN MICE

PhD Desire Humanes[1], PhD student Jesús Pardo-Valencia[1,2], PhD student Miryam Moreno-Gómez[1], Noelia Mercado-García[1], Beatriz Pro-Sánchez[1], Ana Revuelto-González[1,3], PhD Tiziano Balzano[1], PhD Javier Blesa[1,4], Dr. José A. Obeso[1,4,5], PhD Guglielmo Foffani[1,4,6]
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PS4-86

IGF-I MITIGATES POST-TRAUMATIC STRESS THROUGH OREXIN NEURONS

Ms. M. E. Fernández de Sevilla[1,2], Dr Jaime Pignatelli[1,2], Mr J. A. Zegarra-Valdivia[1,2,3], Dr Pablo Mendez[1], Dr Ángel Nuñez[4], Dr Ignacio Torres-Aleman[1,2,3]
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PS4-87

Estradiol Regulates PSA-NCAM Expression and Connectivity of O-LM Interneurons in The Hippocampus of Adult Female Mice

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PS4-88

DISENTANGLING MICROGLIA AND ASTROCYTES ACTIVATION AND NEURODEGENERATION NON-INVASIVELY USING DIFFUSION MRI

Mr. Antonio Cerdán-Cerdá[1], **Ms. Raquel Garcia-Hernandez[1]**, Mr. Alejandro Trouve-Carpena[1], Mr. Santiago Canals[1], Ms. Silvia De Santis[1,2]
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PS4-89

Transcranial static magnetic stimulation over visual cortex of healthy subjects

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PS4-90

Immunoselective nanopheresis of Aβ in cerebrospinal fluid as a treatment for Alzheimer's disease

Ms. María Almudena Coto Vilcapoma[1], Mr. Juan Castilla Silgado[1], Dr Ana Silvia González García[1], Dr. Víctor Vega Martínez[1], Dr Cristina Tomás Zapico[1,3], Dr Víctor Manuel de la Prida Pidal[1], Dr Manuel Menéndez González[2,3]

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PS4-91

Adjusting and validating a procedure for parenteral anaesthesia in neonatal mice

Sandra Sanahuja-Irene[1], Rafael Goterris-Cerisuelo[1], Maria Jose Sanchez-Catalan[1], Fernando Martinez-Garcia[1]
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PS4-92

IMPROVING THE EFFICIENCY OF HUMAN BRAIN ORGANOID GENERATION FROM PLURIPOTENT STEM CELLS

Ms. Rosa González[1], Ms. Raquel Coronel[2], Dr. Adela Bernabeu-Zornoza[2], Ms. Andreea Rosca[2], Ms. Patricia Mateos[2], Dr. Victoria López[1], Dr. Isabel Liste[1]
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PS4-93

In vivo and in vitro studies reveal a sex-dependent role for the insulin degrading enzyme (IDE) in memory tasks and in microglial cells

Miriam Corraliza-Gomez[1], Teresa Bermejo[1], Noelia Rodriguez-Iglesias[2,3], Jorge Valero[4,5], Diego Sanchez[1], Eduardo Arranz[1], Irene Cozar-Castellano[1], Maria Dolores Ganfornina[1]
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PS4-94

Apolipoprotein D function in microglial responses to oxidative stress and amyloid beta-triggered damage

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PS4-95

THE NEUROPROTECTIVE LIPOCALIN APOLIPOPROTEIN D INTERACTS WITH SPECIFIC SUBTYPES OF DETERGENT-RESISTANT MEMBRANE DOMAINS IN A BASIGIN-INDEPENDENT MANNER

Miriam Corraliza-Gomez[1], Dr. Manuela del Caño-Espinel[1], **Dr. Diego Sanchez[1]**, Dr. Maria D. Ganfornina[1]
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POSTER SESSION 5 - FRIDAY, 5TH NOV. 15:00 - 18:30. Exhibition Hall

PS5-01

Identification of conserved neuron subtypes expressing Otp and Foxg1 in the extended amygdala of a lizard

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PS5-02

ROLE OF BASAL AUTOPHAGY IN THE REGULATION OF HIPPOCAMPAL NEURAL STEM CELL

Ms. Isabel Calatayud-Baselga[1], Mr. Jose María Guijarro[1], Dr. Lucía Casares-Crespo[1], Dr. Helena Mira[1]
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PS5-03

Postnatal refinement of interhemispheric callosal projections: GluN3A-mediated mechanisms

Dr. Oliver Crawley[1], Ana Navarro[1], Prof. Isabel Pérez-Otaño[1]
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PS5-04

EFFECTS OF CHLORPYRIFOS ON CELL DEATH AND CELLULAR PHENOTYPIC SPECIFICATION OF HUMAN STEM CELLS

Ms. Andreea Rosca[1,2], Ms. Raquel Coronel[1], Ms. Rosa González[1,3], Ms. Patricia Mateos[1], Dra. López Victoria[3], Dra. María del Carmen González[4], Dra. Isabel Liste[1]
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PS5-05

APC/C-Cdh1 inhibition promotes hypomyelination during postnatal development

Ms. Silvia Gomila[1,2], Dr. Verónica Bobo-Jiménez[1,2], Dr. Rebeca Lapresa[1,2], Dr. Jesús Agulla[1,2], Dr. Angeles Almeida[1,2]
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PS5-06

Amyloid Precursor Protein (APP) regulates cell fate specification in human Neural Stem Cells

Ms. Raquel Coronel[1,2], Ms Andreea Rosca[1], Ms Rosa González[1,3], Ms Patricia Mateos[1], Dra. Victoria López[3], Dr. Eduardo Arilla-Ferreiro[2], Dra. Isabel Liste[1]

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PS5-07

EMBRYONIC CANNABINOID CB1 RECEPTOR KNOCKDOWN CONSEQUENCES IN GENE EXPRESSION AND FUNCTIONAL MATURATION OF PYRAMIDAL NEURONS

Mr. Samuel Simón Sánchez[1,2], Ms. Georgia Skrempou[3], PhD Femke den Boon[3], PhD Daniel García Rincón[1,2], PhD Juan Paraíso Luna[1,2], PhD Taco Werkman[3], Manuel Guzmán[1,2], Pascal Chameau[3], Ismael Galve Roperh[1,2]

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PS5-08

Proliferative rate and neurogenesis in human Neural Stem Cells are increased by Aβ40 peptide

Dra. Adela Bernabeu-Zornoza[1], **Ms Raquel Coronel[1,2]**, Dra. Charlotte Palmer[1], Ms Rosa González[1,3], Ms Andreea Rosca[1], Ms Patricia Mateos[1], Dra. Victoria López[3], Dra. Isabel Liste[1]

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PS5-09

The cellular effect of Shh signaling in oligodendrocyte precursor cells (OPCs) depends on the microenvironment

Dra Sonia Nocera[1], **Dr. Miguel Marchena[1,2]**, Beatriz Fernández-Gómez[1], Yolanda Lao[1], Lidia Sobrino[1,3], Dr Rafael Lujan[4], Dr Fernando de Castro[1]

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PS5-10

Ambra1 regulates cyclin D stability to guard S-phase entry and genomic integrity during neurodevelopment

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PS5-11

In vivo astrocyte activation modulates spontaneous inhibitory activity during slow wave oscillations in the somatosensory cortex

Dr. Salvador Herrera-Pérez[1], Ms Claudia Miguel-Quesada[1], Ms Marta Zaforas[1], Ms Elena Alonso-Calviño[1], Ms Elena Fernández-López[1], Dr. Juan Aguilar[1], Dra. Juliana M Rosa[1]
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PS5-12

Adaptative myelin plasticity linked to increased neuronal excitability in the somatosensory cortex

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PS5-13

Cortical astrocytes exhibit functional heterogeneity to discriminate sensory modalities

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PS5-14

Neuron-derived extracellular vesicles enhance synaptic plasticity through RTP801

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PS5-15

Microglial local translation in Aβ-induced pathology

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PS5-16

Organization of a Sox2-positive glial cell population in the optic nerve associated with growing fibers in the fish visual system

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PS5-17

Reactive neural stem cells and aberrant neurogenesis in a neuron-specific model of Dravet Syndrome

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PS5-18

Intact induction and presynaptic occlusion of short and long-term potentiation in synaptophysin family knockouts

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PS5-19

Parallel processing of quickly and slowly mobilized reserve vesicles in hippocampal synapses

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PS5-20

Galectin-3 impairs gamma oscillations at hippocampal CA3 area ex vivo: A suitable target to counteract the progression of Alzheimer's disease

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PS5-21

Differential effects of Paraquat in human and mouse astrocyte's membranes.

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PS5-22

Role of lysophosphatidic acid receptor LPA1 in use-dependent short-term depression and recovery at excitatory synapses in rat hypoglossal motoneurons

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PS5-23

p11 (S100A10) knockdown impacts synaptic strength and use-dependent short-term plasticity at excitatory synapses in rat hypoglossal motoneurons

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PS5-24

Molecular mechanisms underlying NMDA receptor-BK channel coupling in specific brain regions

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PS5-25

Dissociation of functional and structural plasticity of dendritic spines during NMDAR and mGluR-dependent long-term synaptic depression in wild-type and fragile X model mice

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PS5-26

Astrocyte-mediated switch in spike timing dependent plasticity during hippocampal development

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PS5-27

Adenosine Receptor-Mediated Developmental Loss of Spike Timing-Dependent Depression in Layer 4 to Layer 2/3 synapses of Somatosensory Cortex

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PS5-28

Astro-Light: a new tool for modulation of specific astrocytic networks

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PS5-29

The olfactory peduncle in human and nonhuman primates

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PS5-30

STUDY OF THE DISTRIBUTION OF -TTP AND CALCIUM BINDING PROTEINS IN THE HIPPOCAMPUS OF A MURINE MODEL OF DELAYED AGEING, THE POL μ MOUSE.

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PS5-31

Exercise-associated miRNA profile in miR-29a/b1 deficient mouse brain

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PS5-32

PROJECTIONS OF THE RAT MEDIAL SUPERIOR OLIVE

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PS5-33

MORPHOLOGICALLY DISTINCT AFFERENCES TO THE LATERAL SUPERIOR OLIVE

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PS5-34

Chronic full band recordings with graphene microtransistor neural interfaces for the discrimination of brain states

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PS5-35

Distinct hemispherical responsiveness to transcranial static magnetic field stimulation?

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PS5-36

Temporal binding of multisensory steady-state evoked responses

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PS5-37

M1- muscarinic control of slow oscillations and epileptiform discharges by light

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PS5-38

Phenotype Characterization of a Mice Model of Visual Blindness

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PS5-39

THE PROJECTION FROM THE INFERIOR COLLICULUS TO THE POSTERIOR INTRALAMINAR NUCLEUS OF THE THALAMUS STUDIED WITH ANTEROGRADE TRACERS

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PS5-40

Take care of your babies! Mouse pups produce pheromones that induce maternal behaviour.

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PS5-41

Human Brain oscillations and region distribution in two different fatiguing tasks

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PS5-42

NAVIGATION TO A VIRTUAL PLATFORM TO EVALUATE ENCODING AND RETRIEVAL OF "EVERYDAY MEMORIES"

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PS5-43

Intraneuronal β-amyloid but not Tau Accumulation Enhances Fear and Anxiety in Alzheimer's Disease Transgenic Mice

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PS5-44

Immune receptor TLR4 mediates cognitive deficit induced by high sodium diet

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PS5-45

Global hypoperfusion model of bilateral common carotid artery stenosis induces hippocampus-dependent memory deficits

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PS5-47

Microglia Regulate Learning and Memory through NF-κB

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PS5-48

LEARNING CONDITIONS INFLUENCE HIPPOCAMPAL-DEPENDENT MEMORY AND CONTEXT DISCRIMINATION

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PS5-49

White matter hyperintensities and cognitive reserve affect working memory status and trajectory: A task-based functional Magnetic Resonance Imaging study

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PS5-50

Behavioural characterization of motor and cognitive everyday life habits in Parkinson's disease

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PS5-51

Subjective cognitive complaints are related to cognitive dispersion and resting-state networks segregation in a middle-aged healthy population

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PS5-52

Long-term turnover dynamics in area CA1 of hippocampus are consistent with plasticity of non-spatial inputs

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PS5-53

Neural network dynamics underlying the adjustment of temporal evidence weighting in perceptual decisions

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PS5-54

Control limitations shape perceptual decision making

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PS5-55

AhR Deletion Reduces Amyloid Plaque Accumulation and Axonal Dystrophy in the APP KI NL-F Alzheimer's Mouse Model

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PS5-56

Impact of tauopathies on the functional organization of neuronal cultures

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PS5-57

Neural migration is impaired in the APP/PS1 Alzheimer's mice model due to increase senescence in migrating precursors cells

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PS5-58

Oxidative damage in middle-aged apolipoprotein E4 carriers

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PS5-59

Use of fluorophore-conjugated peptides to asses putative targeting to glia of peptide-drug hybrid molecules as a new therapeutic approach for Multiple Sclerosis.

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PS5-60

Male sex bias in Parkinson's disease is linked to an accelerated age-dependent neuromelanin accumulation

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PS5-61

MALDI Imaging in mice brains reveals novel peptides signatures associated to the progression of Alzheimer`s disease that can be reversed by ubiquinol

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PS5-62

Alpha-synuclein interacts with neuromelanin to enhance Lewy body formation and neurodegeneration in neuromelanin-producing parkinsonian rodents.

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PS5-63

TRAUMATIC BRAIN INJURY INDUCES A BIPHASIC LONG-TERM EFFECT ON ADULT HIPPOCAMPAL NEUROGENESIS

Ms. Irene Durá[1,2], Dr. Joanna Danielewicz[1], Mr. Pierre Mortessagne[4], Ms Tatiana Gallego-Flores[1], Dr Soraya Martín-Suárez[1], Dr Fanny Farrugia[4], Dr Djoher Nora Abrous[4], Dr Emilie Pacary[4], Dr Juan Manuel Encinas[1,2,3]

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PS5-64

Sex differences in the kynurenine pathway in a mouse model of neuropathic pain and depression comorbidity

Ms. Patricia Mariscal[1,2], Dr. José Pérez-Revuelta[2,3], Ms Sergio Arrieta-Riquet[2,7], Dr Cristina Romero-López-Alberca[2,4,5], Dr Francisco González-Saiz[1,2,3,5], Ms Gema Gómez-Benítez[6], Mr Borja Sanz-Peña[6], Dr Federico Hervías-Ortega[2,4], Dr Juan Antonio Mico[1,2,5], Dr Esther Berrocoso[2,4,5], Dr Lidia Bravo[1,2,5]

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PS5-65

KINETIC AND DISTRIBUTION OF NANOEMULSIFIED ALPHA-TOCOPHEROL IN AGEING MOUSE MODELS

Dr. Noemi Villaseca González[1,3,4], Dr. Joaquín González Fuentes[1,3,4], Ms. María Plaza-Oliver[1,3,4], Dr. Virginia Rodríguez Robledo[1,3,4], Dr. María Victoria Lozano[1,3,4], Mr. Jorge Selva Clemente[1,3,4], Dr. Lucía Castro Vázquez[1,3,4], Dr. Pilar Marcos Rabal[2,3,4], Dr. Manuel J Santander Ortega[1,3,4], Dr. María del Mar Arroyo Jiménez[1,3,4]

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PS5-66

Studying the relevance of human APOE polymorphism in Alzheimer's disease through the application of iPSCs

Rebeca Vecino[1,2], Eva Díaz-Guerra[1,2], Esther Arribas-González[1,2], Elena Moreno-Jiménez[1,2], Leire Boveda[1], Irene Serra-Hueto[1], Adela Orellana[2,3], Marta Navarrete[1], Rosario Moratalla[1,2], Agustín Ruiz[2,3], Carlos Vicario[1,2]

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PS5-67

Intermediate alleles in HTT gene may play a role in sporadic tauopathies

Dr. Juan Castilla Silgado[1], Dra. Antía Reguera Acuña[2], Dra. Carmen Martínez Rodríguez[3], Dr. Sergio Pérez Oliveira[2], Dra. María Daniela Corte Torres[4], Dr. Manuel Menéndez González[1,2,4], Dra. Victoria Álvarez Martínez[2,4], Dra. Cristina Tomás Zapico[1,4]

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PS5-68

Gene-Regulatory Dynamics of Microglia States during Neuroinflammation

Carmen M. Navarron-Izquierdo[1], Aysha M. Bhojwani-Cabrera[1], Angel Marquez-Galera[1], Sergio Niñerola[1], Lorenza Magno[2], Manso Y[3,4], Alba del Valle Vílchez[3,4], José V. Sánchez-Mut[1], Tammaryn Lashley[5,6], Ángel Barco[1], **Eduardo Soriano[3,4]**, Paul J. Whiting[2,7], José P. López Atalaya[1]

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PS5-69

MiR-138 as a restorative therapy for spinal cord injury

Dr. M. Asunción Barreda-Manso[1], Dr. David Reigada[1], Dr. Manuel Nieto-Diaz[1], Dr. Teresa Muñoz-Galdeano[1], Altea Soto[1], Dr. Rodrigo M. Maza[1]

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PS5-70

Inhibition of Receptor Protein Tyrosine Phosphatase β/ζ prevents decreases on hippocampal neurogenesis induced by acute ethanol in male and female adolescent mice but only decreases ethanol intake in male mice

Milagros Galán-Llario[1], María Rodríguez-Zapata[1], Teresa Fontán[1], Esther Gramage[1], Marta Vicente-Rodríguez[1], Carmen Pérez-García[1], José María Zapico[1], Ana Ramos[1], Beatriz de Pascual-Teresa[1], Prof. Gonzalo Herradón[1]

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PS5-72

Targeting mTOR/4E-BP1 axis by the antidepressant Sertraline ameliorates motor deficits in the R6/1 mouse model of Huntington's disease

Ms. Carla Castany-Pladevall[1,2,3], Dr. Arantxa Golbano[1,2,3], Dr. Marta Garcia-Forn[1,2,3], Dr. Jordi Creus-Muncunill[1,2,3], Lluis Salvador[1,2,3], Dr. Esther Pérez-Navarro[1,2,3]

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PS5-74

Chronic pain induces plasticity into Locus coeruleus over time: role of the Locus Coeruleus - Dorsal Reticular Nucleus Pathway.

Ms. Carmen Camarena-Delgado[1,2], Ms. Meritxell Llorca-Torralba[1,2,4], Ms. Irene Suárez-Pereira[2,3,4], Ms Lidia Bravo[2,3,4], Ms Carolina López-Martín[1,2], Mr. José Antonio Garcia-Partida[2,3,4], Mr Juan Antonio Mico[2,3,4], Ms Esther Berrocoso[1,2,4]
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PS5-75

MiR-182-5p and miR-138-5p regulate Nogo-A/Nogo receptor expression, promoting neurite outgrowth in neural cells

Ms. Altea Soto[1], Dr. Manuel Nieto-Diaz[1], Dr. M. Asunción Barreda-Manso[1], Dr. Teresa Muñoz-Galdeano[1], Dr. David Reigada[1], Dr. Rodrigo M. Maza[1]
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PS5-76

NeuroCLUEDO: which, when and where neurons die after spinal cord injury?

Dr. Manuel Nieto-Diaz[1], Nadia Ibañez Barranco[1], Dr. David Reigada[1], Dr. M. Asunción Barreda-Manso[1], Ms. Altea Soto[1], Dr. Teresa Muñoz-Galdeano[1], Dr. Rodrigo M. Maza[1]
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PS5-77

CALCIUM TRANSPORT AT ER-MITOCHONDRIA CONTACT SITES IS MODULATED BY PYK2

Laura López-Molina[1,2,3], Carmen Díaz-Cifuentes[4,5,6], Silvia Ginés[1,2,3], Albert Giralt[1,2,3]
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PS5-78

Modeling Parkinson's Disease With the Alpha-Synuclein Protein

Ms. Mónica Gómez-Benito[1,2], Dr. Noelia Granado[1,2], Dr. Patricia García-Sanz[1,2], Dr. Irene Ruiz-de Diego[1,2], Dr. Rubén García-Montes[1,2], Dr. Mireille Dumoulin[3], Dr. Rosario Moratalla[1,2]
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PS5-79

Acute effects of intermittent theta-burst stimulation in the remediation of impulsivity in hypersexual Parkinson's Disease.

Mr. David Mata-Marín[1]
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PS5-80

Small RNAs derived from differentially affected brain regions of Huntington's disease patients recapitulate diverse neuropathological outcomes in wild-type mice

Ms Anna Guisado-Corcoll[1,2,3], Mr Jordi Creus-Muncunill[1,2,3,9], Ms Veronica Venturi[4], Ms Lorena Pantano[5], Ms Georgia Escaramís[1,6], Ms Marta García de Herreros[1,2,3], Ms Maria Solaguren-Beascoa[1], Ms Ana Gámez-Valero[1], Ms Cristina Navarrete[4], Ms Mercè Masana[1,2,3], Mr Franc Llorens[3,7,8], Ms Daniela Diaz-Lucena[3,7], Ms Esther Pérez-Navarro[1,2,3], Ms Eulàlia Martí[1,4,6]
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PS5-82

Cortical and hippocampal rhythmopathies in experimental models of brain metastasis

Dr. Alberto Sanchez-Aguilera[1], Dr. Mariam Masmudi-Martín[2], Dr. Andrea Navas-Olivé[1], Dr. Manuel Valiente[2], Dr. Liset Menéndez de la Prida[1]
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PS5-83

From engrams to memory pathology in Down syndrome

Mr. Álvaro Fernández-Blanco[1], Dr. Alfonsa Zamora-Moratalla[1], Dr. Mara Dierssen[1]
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PS5-84

Pathological and therapeutic implications of myelin alterations in the Acid Sphingomyelinase Deficiency

Dr. Marta Guerrero-Valero[1], Jaime Mulero Franco[1], Dr. Fernando de Castro[2], M.D. Ledesma[1]
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PS5-85

Human amygdala involvement in Alzheimer's disease revealed by MALDI Imaging and SWATH analysis.

Ms. Melania González Rodríguez[1], Ms. Veronica Astillero-Lopez[1], Ms. Sandra Villar-Conde[1], Ms. Patricia Villanueva-Anguita[1], Dr. Isabel Ubeda-Banon[1], Dr. Alicia Flores-Cuadrado[1], Prof. Alino Martinez-Marcos[1], Dr. Daniel Saiz-Sanchez[1]
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PS5-86

ApTOLL: A NOVEL REMYELINATING MOLECULE IN A MODEL OF MULTIPLE SCLEROSIS

Beatriz Fernández-Gómez[1,2], Paula Gómez-Martín[1], David Piñeiro[2], Macarena Hernández-Jiménez[2], Fernando de Castro[1]
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PS5-87

Local protein synthesis in health and disease

Dr. Jimena Baleriola[1,2,3], Ms. María Gamarra[1,3], Ms. Maite Blanco[1,3], Ms. Aida de la Cruz[1,3], Ms. Josune Imaz[1]
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PS5-88

Enhanced neuronal glycolysis causes cognitive impairment and metabolic syndrome in mouse

Dr. Daniel Jimenez-Blasco[1,2,3], Dr. Marina Garcia-Macia[1,2,3], Dr. Carlos Vicente-Gutierrez[1,2,3], Dr. Ruben Quintana-Cabrera[1,2,3], Dr. Rebeca Lapresa[1,2], Dr. Jesus Agulla[1,2], Dr. Veronica Bobo-Jimenez[1,2], Dr. Emilio Fernandez[1,2,3], Prof. Peter Carmeliet[4], Dr. Angeles Almeida[1,2], Prof. Juan P Bolaños[1,2,3]
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PS5-89

Simultaneous reciprocal chemogenetic regulation of AgRP and POMC neurons reveals non-overlapping functions in control of metabolism.

Dr. Alain De Solis[1], Dr. Jan Radermacher[2], Almudena Del Rio-Martin[1], Dr. Paul Klemm[1], Dr. Anna-Lena Cremer[1], Dr. Heiko Backes[1], Dr. Peter Kloppenburg[2], Prof. Jens C. Bruning[1]

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PS5-90

Non-viral vehicles and modified oligonucleotides for RNAi-based therapies for CNS damage

Altea Soto[1], Dr. Manuel Nieto-Diaz[1], Dr. David Reigada[1], Dr. Mª Asunción Barreda-Manso[1], Dr. Teresa Muñoz-Galdeano[1], Dr. Ramón Eritja[2], Dr. Ana Aviñó[2], Dr. Helmut Reinecke[3], Dr. Carlos Elvira[3], Dr. Enrique Martínez[3], Dr. Alberto Gallardo[3], Dr. Juan Rodríguez[3], Dr. Paula Bosch[3], Dr. Rodrigo M. Maza[1]

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PS5-91

Hippocampal-targeted, cell type-specific manipulation of NFκB activity to treat brain injuries and diseases

Mr. Gorka Kortabarria[1,2], Dr. Alejandro Carretero-Guillén[1,2], Prof. Juan Manuel Encinas[1,2,3], Prof. Mazahir T. Hasan[1,2,3]

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PS5-92

Modulating neuronal activity using phytochromes

Laia Sitjà-Roqueta[1,2,3], Albert Coll-Manzano[1,2,3], Esther García-García[1,2,3], Sara Fernández-García[1,2,3], Sara Conde-Berriozabal[1,2,3], Manuel J Rodríguez[1,2,3], Jordi Soriano[4], Deniz Dalkara[5], Andreas Möglich[6], Jordi Alberch[1,2,3], Mercè Masana[1,2,3]

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PS5-93

Longitudinal calcium imaging of neural activity in epileptic networks: in-vitro an in-vivo approach

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PS5-94

Experimental and modeling study of near infrared-laser stimulation in single and electrically coupled neurons

Ms. Alicia Garrido-Peña[1], Dr. Rafael Levi[1], Dr. Javier Castilla[2], Dr. Jesús Tornero[2], Dr. Pablo Varona[1]
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PS5-95

Gene variants involved in the glutamate and calcium pathway in the epileptic model hamster GASH/Sal.

Ms. Sandra M. Diaz- Rodriguez[1,3], PhD Jose M. Matías-Pereda[2], Phd Ricardo J. Gómez-Nieto[1,2], Phd Javier M. Herrero -Turrión[1,4], **Phd María Dolores López - García[1,3]**
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PS5-96

Sex differences of acute and chronic administration of cannabidiol in the genetically audiogenic seizure-prone hamster GASH/Sal

Ms. Giselda Eunice Cabral-Pereira[1,2], Dra. María Consuelo Sancho Sánchez[1,2], Dr. Luis J. Muñoz[3], Dr. Ricardo Gómez-Nieto[1,2], Dra. Mª. Dolores E. López García[1,2], **Dr. David Sánchez Benito[1,2]**
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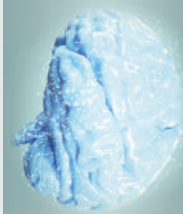

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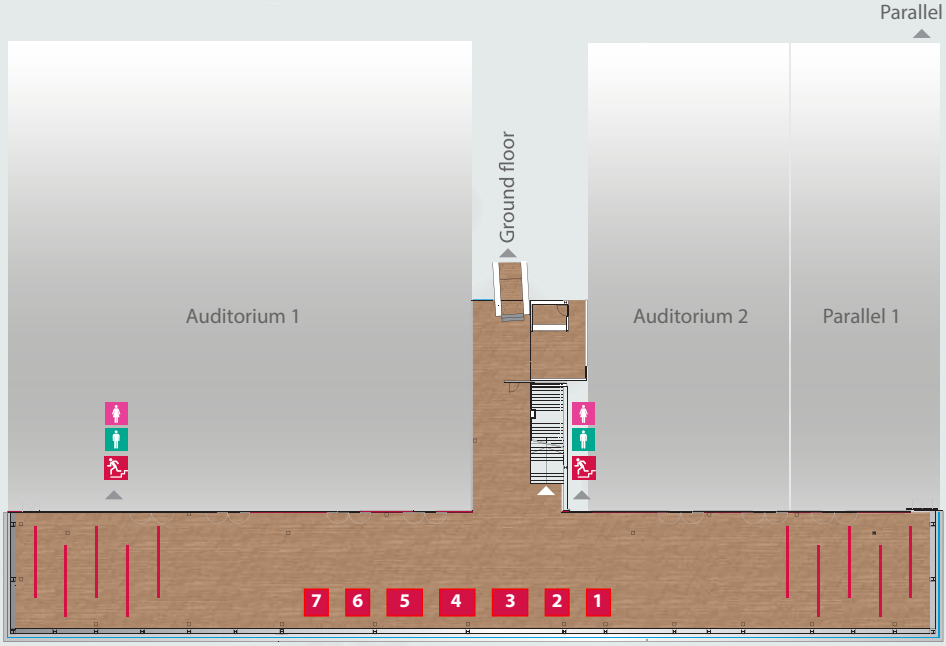

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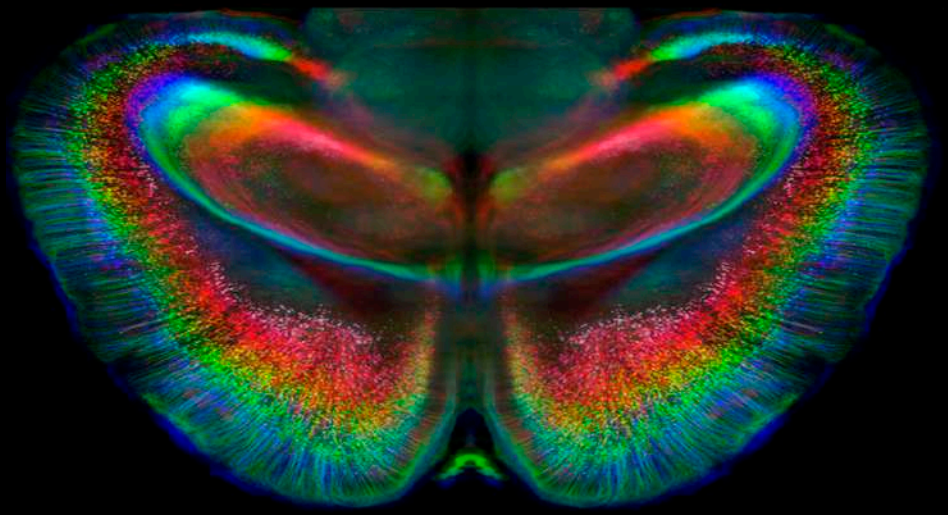

SOCIEDAD ESPAÑOLA DE NEUROCIENCIA

ciberNed

INc Institut de Neurociències UAB

uic barcelona

ISN International Society for Neurochemistry

IBRO

The Company of Biologists

19th MEETING

3-5 November 2021
Lleida

SPANISH SOCIETY OF
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