

19th
MEETING

3-5 November 2021

Lleida



SCIENTIFIC PROGRAMME

SPANISH SOCIETY OF
NEUROSCIENCE



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SENC COMMITTEES

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GENERAL INFORMATION

VENUE

La Llotja, Palau de Congressos

Address: Av. de Tortosa, 6-8

25005 Lleida

Tel. 973 22 11 55

www.lalotjadelleida.com



TECHNICAL SECRETARIAT

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

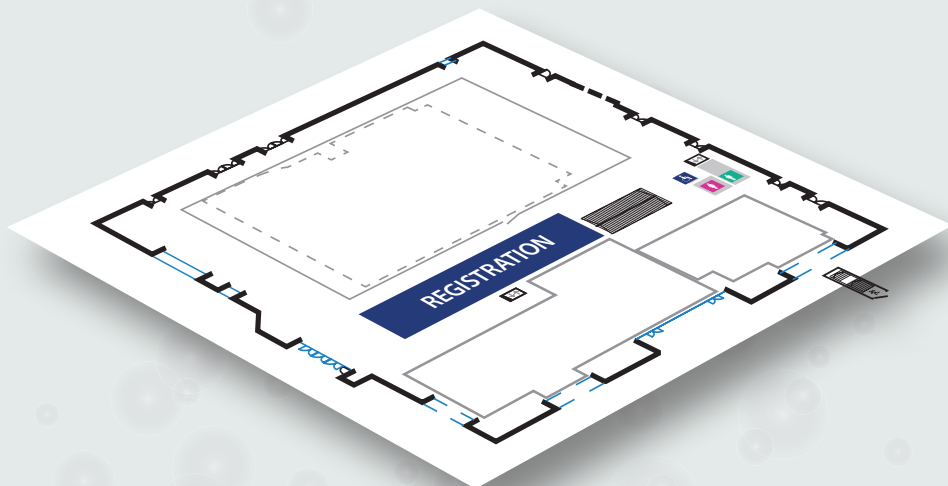
Upon registration, participants agree that neither the Organizing Committee nor the Technical Secretariat assume any liability. Participants should, therefore, organize their own health and travel insurance.

FLOOR PLANS

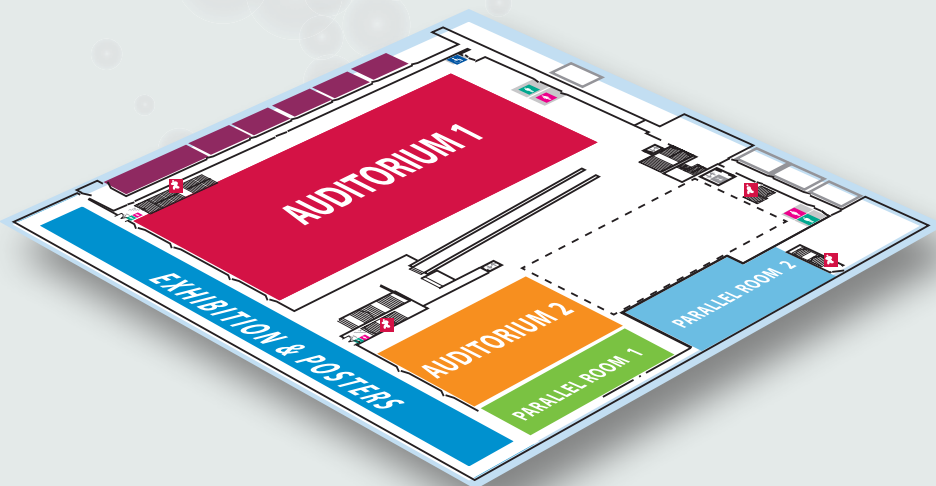
- **Floor 0** – Technical Secretariat
- **Floor 2** – Rooms, Exhibition Hall, Posters display, Neuroart Exhibition, coffee breaks, etc.



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.



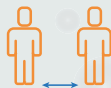
CERTIFICATE OR TEST PROOF

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 established 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 <i>Ariadna Laguna and Analía Bortolozzi</i>
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 <i>Josep Esquerda</i>

Wednesday, November 3rd 2021

	Auditorium 1	Auditorium 2	Parallel Room 1	Parallel Room 2	EXHIBITION HALL
8:30-9:00					NeuroART Exhibition
9:00-9:30	Excellent Rita Levi-Motalcini Award (Part I)	11 th Meeting of the Spanish Glial Network (RGE) (Part I)	Red NeuroEvoDevo Pedro Ramón y Cajal (Part I)	3 rd 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)	11 th Meeting of the Spanish Glial Network (RGE) (Part II)	Red NeuroEvoDevo Pedro Ramón y Cajal (Part II)	3 rd 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				
15:00-15:30	VALENTINA EMILIANI				
15:30-16:00					
16:00-16:30	S01 - Binding cell assemblies into memory engrams	S02 - Deciphering brain circuits: insights from reward and neuronal excitability			
16:30-17:00					
17:00-17:30					
17:30-18:00	Coffee break				
18:00-18:30			Poster Session 1		
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	Satellite Event 3	Commercial Session Miltenyi		
14:00-14:30	Submitting your work to an international journal: the peer review and what we expect in a good paper	La retina de los vertebrados (por Santiago Ramón y Cajal)			
14:30-15:00					
15:00-15:30	S05 - Modeling behavior during decision making	S06 - Tracing cell lineages in the brain			
15:30-16:00					
16:00-16:30					
16:30-17:00					
17:00-17:30	Coffee break			Poster Session 3	
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				
9:00-9:30			NeuroART Exhibition	
9:30-10:00	S07 - Motor circuits and motor control from a basic and clinical view	S08 - Origin and expansion of the neocortex		Poster Session 4
10:00-10:30				
10:30-11:00				
11:00-11:30				
11:30-12:00	Coffee break			
12:00-12:30				
12:30-13:00	Presidential Lecture MICHAEL HENKA			
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		
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 Assembly			
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 Capponet,
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 Capponet,
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

EXCELLENT RITA LEVI-MONTALCINI AWARD (PART I)
Organized by SENC Young Researcher's Committee

*Co-financed
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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

EXCELLENT RITA LEVI-MONTALCINI AWARD (PART II)
Organized by SENC Young Researcher's Committee

*Co-financed
by IBRO-PERC
/ SENC*





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.**

Sponsored by: Valentina Emiliani
Institute de la Vision, Paris, France.





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 Interdisciplinaria 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 Interdisciplinaria 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 Paraplégicos, Toledo, Spain.

Speakers:

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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 Paraplégicos, 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 **PLENARY LECTURE**
Auditorium 1 **Iberian Neuroscience Lecture**

Chair: Paola Bovolenta
Elected SENC President.

Speaker: **On the complexities of immobility.**
Marta Moita

Sponsored by: Champalimaud Centre for the Unknown, Lisbon, Portugal.





NOVEMBER 4TH, THURSDAY

09:00-11:00

Auditorium 1

Chair:

Sara Mederos

Sainsbury Wellcome Centre (UCL), London.

Speakers:

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
Exhibition hall

POSTER SESSION 2
PS2-01 to PS2-89

11:00-11:30 Coffee break

12:30-13:30
Auditorium 1

OLYMPUS AWARD TALK



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
Auditorium 1

SATELLITE EVENT 2

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
Auditorium 2

SATELLITE EVENT 3

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, Miltényi Biotec, Bielefeld, Germany.

Luis Muñiz Menéndez
Imaging Sales Specialist, Miltényi 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 Gote-rris-Cerisuelo. *Universitat Jaume I, Castellón, Spain.*
- **PS5-47 S05 - Microglia Regulate Learning and Memory through NF- κ B.** 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:

Neural stem cell lineage progression in developing cerebral cortex.

Simon Hippenmeyer
Institute of Science and Technology (IST) Austria, Austria.

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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. *BIO-TECMED 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.**

Sponsored by:



José María Delgado
Universidad Pablo de Olavide, Sevilla, Spain.

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:

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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 pedunculo pontine 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:

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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

Sponsored by: University of Bonn, Bonn, Germany.



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.

Sponsored by:



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:

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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 - Oleylethanolamide 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-Guillén¹, Dr. Antonia Alonso¹, Dr. Nicanor Morales-Delgado², Ms. Belén Andrés³, Dr. Luis Puellas¹, Dr. Guillermina López-Bendito³, Dr. Faustino Marín¹, Dr. Pilar Aroca¹

¹Universidad de Murcia, Murcia, Spain, ²Universidad Miguel Hernández, Alicante, Spain, ³Instituto 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 Núñez¹, Dr. Alberto Docampo Seara¹, Dr. Diego Robledo², Dr. Sylvie Mazan³, Dr. Antón Barreiro Iglesias¹, Dr. Fátima Adrio¹, Dr. Eva Candal¹

¹Universidade de Santiago de Compostela. CIBUS. Faculty of Biology., Santiago de Compostela, Spain, ²The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh, Edinburgh, United Kingdom, ³CNRS, 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-González¹, Dr. Julián Yáñez-Sánchez¹, Dra. Mónica Folgueira-Otero¹

¹University of A Coruña (CICA), A Coruña, Spain

PS1-04

Intramodal functional plasticity in the developing somatosensory system

Ms. Mar Aníbal-Martínez¹, Mr. Luis Rodríguez-Malmierca¹, Mr. Francisco José Martini¹, Ms. Guillermina López-Bendito¹

¹Instituto 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-Escote¹, **Ms. Judit Biosca-Brull^{1,2}**, Ms. Mikaela Mladenova-Koleva¹, Dra. Pia Basaure¹, Dr. Jordi Blanco^{1,3}, Dra. Maria Cabré^{1,4}



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

PS1-06

The development of the cerebello-cortical connectivity

Ms. Raquel Murcia-Ramón¹, Ms Belén Andrés¹, Dra Guillermina López-Bendito¹, Dr. Juan Antonio Moreno-Bravo¹

¹Instituto De Neurociencias, San Juan De Alicante, Spain

PS1-07

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

Mr. Antonio Almenar¹, Ms. Alicia Estirado¹, Ms. Francisca Almagro¹, Dr. Salvador Martínez¹

¹Instituto 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 Saiz¹, Dr. Vicente Herranz Pérez¹, Dr. Shawn Sorrells², Professor Jose Manuel García Verdugo¹

¹Instituto Cavanilles De Biodiversidad Y Biología Evolutiva, University Of Valencia-CIBERNED, Valencia, Spain, ²University 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

¹Instituto De Neurociencias, Alicante, Spain

PS1-10

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

Dr. Carlos Sanchez Huertas¹, Ivan Guzman¹, Prof. Eloisa Herrera¹

¹Instituto de Neurociencias (CSIC-UMH), Alicante, Spain



PS1-11

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

Ms. Guadalupe Pereyra Gómez¹, Dr. Inés Mateo Ruiz¹, Ms. María Jesús Martín Bermejo¹, Mr. Jose María Delgado-García², Ms. Pilar Esteve^{1,3}, Ms. Paola Bovolenta^{1,3}

¹Centro de Biología Molecular Severo Ochoa, UAM-CSIC, Madrid, Spain, ²Universidad Pablo de Olavide, Sevilla, Spain,

³Centro 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-Alonso¹, Dr. Vicent Teruel², Dr. Andrea Cabrera-Pastor³, Dr. Vicente Felipo¹

¹Neurobiology Laboratory, Centro De Investigación Príncipe Felipe, Valencia, Spain, ²Neuronal Circuits Laboratory, Universidad de Valencia, Valencia, Spain, ³Neurological Impairment Group - INCLIVA, Valencia, Spain

PS1-13

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

Arantazu Belloso-Iguerategui¹, Marta Zamarbide-Gonzalez¹, Leyre Merino-Galan¹, Aleph Prieto², Carl W Cotman², Joaquín Fernández-Irigoyen³, Enrique Santamaría-Martínez³, Ana Quiroga-Varela^{1,5}, María Cruz Rodríguez-Oroz^{4,5}

¹CIMA-Universidad de Navarra, Pamplona, Spain, ²Institute for Memory Impairments and Neurological Disorders, University of California-Irvine, Irvine, USA, ³Centro de Investigación Biomédica Navarrabiomed, Pamplona, Spain, ⁴Clínica Universidad de Navarra, Pamplona, Spain, ⁵Instituto de Investigación Sanitaria de Navarra (IdISNA), Pamplona, Spain

PS1-14

Astrocytes exert negative modulation on hippocampal neuron excitability

Ms. Sara Expósito Reguero¹, Mr. Samuel Alberquilla¹, PhD Rosario Moratalla¹, Mr. Alfonso Araque¹, Mr. Eduardo D. Martín¹

¹Instituto Cajal, CSIC, Madrid, Spain

PS1-15

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

Ms. Paula Giménez Minguéz^{1,2}, Mr Konstantinos Chatzimichail², Dr. Jan Tønnesen^{1,2}

¹Universidad Del Pais Vasco, Getxo, España, ²Achucarro Basque Center for Neuroscience, Leioa, España



PS1-16

Cell to cell communication mediates the neurodegeneration caused by glioblastoma**Dr. Sergio Casas Tinto¹**, Dr. María Losada-Pérez, Dr. Patricia Jarabo, Dr. Marta Portela, Dr. Francisco A Martín¹Instituto Cajal CSIC, Madrid, Spain

PS1-17

GSK-3 β 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}¹Department of Molecular Neuropathology, Centro de Biología Molecular "Severo Ochoa", CBMSO, CSIC-UAM, Madrid, Spain, ²Department of Molecular Biology, Faculty of Sciences, Universidad Autónoma de Madrid, Madrid, Spain, ³Center 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}¹Inserm, Bordeaux, France, ²University of Bordeaux, Bordeaux, France, ³University of Lisbon, Lisbon, Portugal

PS1-19

In silico screening of GMQ-like compounds reveals guanabenz and seph11 as new allosteric modulators of acid-sensing ion channel 3**Dr. G Callejo^{1,2}**, Mr LA Pattison¹, Mr JC Greenhalgh¹, Dr S Chakrabarti¹, Ms E Andreopoulou¹, Dr JRF Hockley¹, Dr E St. John Smith¹, Dr T Rahman¹¹Department of Pharmacology, University of Cambridge, Cambridge, United Kingdom, ²Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain

PS1-20

Loss of TRESK background potassium channel enhances acute and chronic itch.**Dr. Alba Andrés-Bilbé¹**, Dr. Aida Castellanos¹, Ms. Anna Pujol¹, Dr. Núria Comes^{1,2}, Dr. Gerard Callejo^{1,2}, **Prof. Xavier Gasull^{1,2}**¹Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain, ²Institut 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 Castellanos¹, Dr. Alba Andrés-Bilbé¹, 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}**

¹Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Université Côte d'Azur, CNRS UMR 7275, Institut de Pharmacologie Moléculaire et Cellulaire, Valbonne, France, ⁴LabEx 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-Martín², Dr María Jesús Oset-Gasque^{1,2,3}, Dr Magdalena Torres^{1,2,3}, Dr José Sánchez-Prieto^{1,2,3}

¹Universidad Complutense de Madrid, Madrid, España, ²Instituto Universitario de Investigación en Neuroquímica, Madrid, España, ³Instituto de Investigación Sanitaria del Hospital Clínico San Carlos, Madrid, España, ⁴University of Edinburgh, Edinburgh, United Kingdom, ⁵Universidad 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 Campos¹, Mrs. Ángela M. Zafra¹, Dr. Isabel Cordones¹, Mrs. Marta Estévez-Rodríguez¹, Dr. Javier Márquez-Ruiz¹

¹Universidad Pablo De Olavide, Seville, Spain

PS1-24

Nutrient-mediated regulation of GluA1 surface levels

Ms. Rocío Rojas Martín¹, Dr. Rut Fadó Andrés¹, Dr. Alfredo Miñano Molina^{2,4}, Dr. José Rodríguez Álvarez^{2,4,5}, Dr. Nùria Casals Farré^{1,3}

¹Faculty of Medicine and Health Sciences, Universitat Internacional de Catalunya, Sant Cugat del Vallès, Spain, ²Institute of Neurosciences (INC), Universitat Autònoma de Barcelona, Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Instituto de Salud Carlos III, Madrid, Spain, ⁴Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Instituto de Salud Carlos III, Madrid, Spain, ⁵Albert 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-Borràs¹, Mr. Víctor Cilleros-Mañé¹, Ms. Erica Hurtado¹, Ms. Aleksandra Polishchuk¹, Ms. Maria Duran-Vigara¹, Ms. Marta Balanyà-Segura¹, Mr. Olivier Biondi², Mr. Frédéric Charbonnier², Ms. Marta Tomàs¹, Ms. Neus Garcia¹, Mr. Josep Tomàs¹, Ms. Maria A. Lanuza¹

¹Unitat d'histologia i neurobiologia, Universitat Rovira i Virgili, Reus, Spain, ²INSERM UMRS 1124, Université de Paris, Reus, España



PS1-26

Existence of FGFR1-5-HT_{1A}R 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-Talavera⁸, D. Ramon Fores-Pons^{1,4}, Dr. Ismael Valladolid-Acebes³, Dra. Pia Siegle⁴, Dr. Alejandro Hernandez-Sosa⁴, Dr. André Fisahn⁵, Dr. Alexander López-Salas⁴, Dr. Dasiel O. Borroto-Escuela^{4,6,7}

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

¹Department of Molecular Neuropathology, Centro de Biología Molecular "Severo Ochoa", CBMSO, CSIC-UAM, Madrid, Spain, ²Centre for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Madrid, Spain, ³Department 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-Lopes², Dr Alejandro Fuerte-Hortigón³, PhD Laura Zeballos¹, **Prof M^a. Dolores E. López García¹**, Prof Norberto Garcia-Cairasco²

¹Neuroscience Institute of Castilla y León (INCYL, Faculty of Medicine. University of Salamanca (USAL), Salamanca, Spain, ²Neuroscience and Behavioral Sciences Department, Ribeirão Preto School of Medicine, Ribeirão Preto, Brazil, ³Department of Neurology, Virgen Macarena Hospital, Sevilla, Spain

PS1-29

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

Dr. Mario Martín-Fernández^{1,2}, Ana Paula Mengolla^{1,2}, Guillem Lopez-Fernandez^{1,2}, Dr. Cyril Herry^{1,2}

¹Université de Bordeaux, Neurocentre Magendie, Bordeaux, France, ²INSERM, Neurocentre Magendie, Bordeaux, France



PS1-30

Using Hippocampome.org to investigate hippocampal circuit dynamics

Dr. Alberto Sánchez-Aguilera¹, Dr. Diek W Wheeler², Dr. Teresa Jurado-Parras¹, Dr. Elena Cid¹, Dr. Nate Sutton², Dr. Giorgio G Ascoli², Dr. Liset Menendez de la Prida¹

¹Instituto Cajal - Csic, Madrid, Spain, ²George Mason University, Fairfax, United States of America

PS1-31

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

Dr. Manuel Molano-mazón¹, Dr. Daniel Duque¹, Dr. Guangyu Robert Yang², Dr. Jaime de la Rocha¹

¹IDIBAPS, Barcelona, Spain, ²Center for Theoretical Neuroscience, Columbia University, New York, USA

PS1-32

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

Mr. Enrique R. Sebastian¹, Dr. María Teresa Jurado-Parras¹, Dr. Alberto Sánchez-Aguilera¹, Dr. Liset Menendez de la Prida¹

¹Instituto Cajal - Csic, Madrid, Spain

PS1-33

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

Ms. Andrea Navas-Olive¹, Mr. Rodrigo Amaducci², Dr. Maria Teresa Jurado-Parras¹, Mr. Enrique R. Sebastian¹, Dr. Liset Menendez de la Prida¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Grupo de Neurocomputación Biológica (GNB). UAM, Madrid, Spain

PS1-34

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

Mr. Esteban Merino¹, Dr. Vicent Teruel-Martí¹, Dra Ana Cervera-Ferri¹, Mrs. Anna Teruel-Sanchís^{1,2}, Dr. Sergio Martínez-Bellver¹, Mrs. Maria Villafranca-Faus¹, Mrs. Alicia González-Martínez¹, Mrs. Hanna Vila-Merkle¹, Mr. Manuel Esteban Vila-Martin^{1,2}, Dr. Enrique Lanuza², Dr. Albert Adell³, Dr. Joana Martínez-Ricós¹, PhD Sharon Cabanu³

¹University of Valencia, Valencia, Spain, ²University of Valencia, Burjassot, Spain, ³Institute of Biomedicine and Biotechnology of Cantabria, IBBTEC (CSIC University of Cantabria), Cantabria, Spain



PS1-35

Functional diversity of motoneurons innervating extraocular muscle fibers

Dr. R. G. Hernández¹, Ms. P. M. Calvo¹, Ms. G. Carrero-Rojas^{1,2}, Prof. R. Blumer², Prof. R. R. de la Cruz¹, Prof. A. M. Pastor¹

¹Facultad de Biología, Universidad De Sevilla, Sevilla, Spain, ²Center of Anatomy and Cell Biology, Medical University Vienna, Wien, Austria

PS1-36

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

Ms. Ting Wang^{1,2,3}, Mr. Yu Wang^{1,2}, Prof. Lucía Prensa¹, Prof. Ana Guadaño², Prof. Estrella Rausell¹

¹School of Medicine, The Autonomous University of Madrid, Madrid, Spain, ²The Instituto de Investigaciones Biomédicas "Alberto Sols" (IIBM), Madrid, Spain, ³Xi'an Lintong Shiyoucheng General Clinic, Xi'an, China, ⁴PhD Program in Neuroscience, Autonoma de Madrid University, Madrid, Spain

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 Prensa¹, Prof. Ana Guadaño-Ferraz², Prof. Estrella Rausell¹

¹School of Medicine, The Autonomous University of Madrid, Madrid, Spain, ²The Instituto de Investigaciones Biomédicas "Alberto Sols" (IIBM), Madrid, Spain, ³Xi'an Lintong Shiyoucheng General Clinic, Xi'an, China, ⁴PhD Program in Neuroscience, Autonoma de Madrid University, Madrid, Spain

PS1-38

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

Ms. Candela Zorzo¹, Jorge L. Arias¹, Marta Méndez¹

¹Laboratory of Neuroscience, Department of Psychology, University of Oviedo, Plaza Feijóo, s/n, E-33003. Instituto de Neurociencias del Principado de Asturias (INEUROPA), Oviedo, Spain

PS1-39

Synchronized eye blinks predict narrative content in videos

Dr. Celia Andreu-Sánchez¹, Dr. Miguel Ángel Martín-Pascual^{1,2}, Prof. José María Delgado-García³, Prof. Agnès Gruart³

¹Universitat Autònoma De Barcelona, Cerdanyola Del Vallès (Barcelona), Spain, ²Instituto Radio Televisión Española, Sant Cugat del Vallès (Barcelona), Spain, ³Universidad Pablo de Olavide, Sevilla, Spain



PS1-40

Cognitive neurodynamics during audiovisual cuts in media professionals

Dr. Miguel Ángel Martín-Pascual^{1,2}, Dr. Celia Andreu-Sánchez², Prof. Agnès Gruart³, Prof. José María Delgado-García³

¹Instituto Radio Televisión Española, Sant Cugat del Vallès (Barcelona), Spain, ²Universitat Autònoma de Barcelona, Cerdanyola del Vallès (Barcelona), Spain, ³Universidad Pablo de Olavide, Sevilla, Spain

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 Tena¹, Dr. Marta Moreno-Rodríguez¹, Dr. Jonatan Martínez-Gardeazabal¹, Mr. Gorka Pereira-Castelo¹, Dr. Iván Manuel^{1,2}, Dr. Lydia Giménez-Llort³, Dr. Rafael Rodríguez-Puertas^{1,2}

¹Dept. Pharmacology, Fac. of Medicine and Nursing, University of the Basque Country (UPV/EHU), Leioa, Spain, ²Neurodegenerative Diseases, BioCruces Bizkaia Health Research Institute, Barakaldo, Spain, ³Dept. Psychiatry and Forensic Medicine, School of Medicine & Institute of Neuroscience, Autonomous University of Barcelona (UAB), Barcelona, Spain

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.

Bach. Marco Peña¹, M.Sc. Roy Andrade², Eng. Richard Cisneros³, M.Sc. Luis Baquerizo⁴, Ph.D. Fernando Ramos⁴, Ph.D. Ivan Best⁴, Ph.D. Ana Muñoz⁴, Ph.D. Luis Aguilar⁴

¹San Marcos University, Lima, Peru, ²Cayetano Heredia University, Lima, Peru, ³National University of Huancavelica, Huancavelica, Peru, ⁴San Ignacio de Loyola University, Lima, Peru

PS1-43

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

Ms. Alba Gutiérrez-Menéndez¹, María Banqueri², Marta Méndez¹, Nélida M. Conejo¹, Jorge L. Arias¹

¹University Of Oviedo, Plaza Feijóo, s/n, E-33003, Oviedo, Asturias, Spain, ²Nencki Institute of Experimental Biology, Ludwika Pasteura 3, 02-093 Warsaw, Poland

PS1-44

Role of Astrocyte-Neuron signaling in Major Depressive Disorder

Candela González Arias¹, Cristina Sánchez-Puelles¹, Julio Esparza¹, Gertrudis Perea¹

¹Instituto Cajal (CSIC), Madrid, Spain



PS1-45

Learning of allocentric and egocentric strategies in an automatized maze

Mr. Juan P. Quintanilla^{1,2}, Dr. Jorge R. Brotons-Mas^{2,3}, Dr. Liset Menéndez de la Prida¹

¹Instituto Cajal. CSIC, Madrid, Spain, ²Universidad Cardenal Herrera CEU, Elche, Spain, ³Instituto de Neurociencias, UMH-CSIC, Alicante, Spain

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}

¹NEUROcom, Departamento de Fisioterapia, Medicina e Ciencias Biomédicas, Facultad de Ciencias da Saúde, Universidade da Coruña (UDC), A Coruña, Spain, ²Instituto de Investigación Biomédica de A Coruña (INIBIC), A Coruña, Spain, ³Centro de Investigación Científicas Avanzadas (CICA), Universidade da Coruña (UDC), A Coruña, Spain, ⁴Centro de Estimulación Cerebral de Galicia, A Coruña, Spain

PS1-47

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

Dr. Natalia Arias^{2,4}, Dr. Sara G Higarza^{1,2}, Dr. Silvia Arboleya³, Prof Jorge L Arias^{1,2}, Dr Miguel Gueimonde³

¹Laboratory of Neuroscience, Department of Psychology, University of Oviedo, Oviedo, Spain, ²Instituto de Neurociencias del Principado de Asturias (INEUROPA), Oviedo, Spain, ³Department of Microbiology and Biochemistry of Dairy Products, Instituto de Productos Lácteos de Asturias (IPLA-CSIC), Villaviciosa, Spain, ⁴Department of Basic and Clinical Neuroscience, Institute of Psychiatry, Psychology and Neuroscience, London, Spain

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-Escote¹, Dra. Pia Basaure¹, Dr. Jordi Blanco^{1,3}, Dra. Maria Cabré^{1,4}, Dra. María Teresa Colomina^{1,2}

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

PS1-49

Genomic Basis of Drosophila Social Memory



Dr. Francisco A Martín¹, Beatriz Gil-Martí¹, Dr Abhijit Das², Celia G Barredo¹, Carmen Rodríguez-de Navas¹, Dr Enrique Turiegano³, Prof Andrea H Brand⁴

¹Cajal Institute (csic), Madrid, Spain, ²b School of Bioscience, Indian Institute of Technology, Kharagpur, India,

³Autonomous University of Madrid, Madrid, Spain, ⁴The Gurdon Institute and Department of Physiology, Development and Neuroscience, University of Cambridge, Cambridge, UK

PS1-51

Joint replay of correlated place maps in hippocampus

Dr. Emma Roscow¹, Dr Alex Roxin¹

¹Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain

PS1-52

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

Dr. Javier Alegre-Cortés¹, Dr Maurizio Mattia², Dr Ramón Reig¹

¹Instituto de Neurociencias UMH-CSIC, San Juan de Alicante, Spain, ²Instituto Superiore di Sanità, Rome, Italy

PS1-53

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

Ms. Rosa González¹, Ms. Raquel Coronel², Ms. Andreea Rosca², Ms. Patricia Mateos², Dr. Isabel Liste², Dr. Victoria López¹

¹Unidad de Biología Computacional, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto De Salud Carlos III, Madrid, Spain, ²Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Madrid, Spain

PS1-54

Lactoperoxidase might be a pathogenic factor in Parkinson's disease

Dr. Emilio Fernández Espejo^{1,3}, Dr Fernando Rodríguez de Fonseca^{2,3}, Dr Juan Suárez^{2,3}

¹Reial Acadèmia De Medicina De Catalunya, Barcelona, Spain, ²Instituto de Biomedicina, Málaga, Spain, ³Red Andaluza Neuro-RECA, Málaga, Spain

PS1-55

Native and nitrated α -synuclein, and patterns of nitro- α -synuclein-positive inclusions in saliva and submandibular 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 Vilas⁴, Dr. Iban Aldecoa³, Dr. Joan Berenguer³



¹Reial Acadèmia De Medicina De Catalunya, Barcelona, Spain, ²Instituto de Biomedicina de Málaga, Málaga, Spain, ³Hospital Clinic, Barcelona, Spain, ⁴Hospital Universitari Germans Trias i Pujol, Badalona, Spain, ⁵CIBERNED, Madrid, Spain, ⁶Red Andaluza Neuro-RECA, Málaga, Spain

PS1-56

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

Dr. Jose Vicente Sanchez Mut¹

¹Instituto De Neurociencias De Alicante, San Juan De Alicante, Spain

PS1-57

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

Ms. Rocío García-Arroyo^{1,2}, Dr. Gemma Marfany^{1,2,3}, Dr. Serena Mirra^{1,2}

¹Universitat De Barcelona, Barcelona, Spain, ²CIBERER- ISCIII, Barcelona, Spain, ³BUB-IRSI, Barcelona, Spain

PS1-58

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

Ms. Gergana Ivaylova¹, Dr. Paola Leone¹, Dr. Tiziano Balzano², Dr. Michele Malaguarda^{3,4}, Dr. Vicente Felipo¹, Dr. Marta Llansola¹

¹Centro de Investigación Príncipe Felipe, Valencia, Spain, ²HM Hospital Universitario Puerta del Sur, Móstoles, Spain,

³Universitat de Valencia, Valencia, Spain, ⁴Universidad Nacional de Educación a Distancia, Valencia, Spain

PS1-59

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

Dr. Angel Gaudioso¹, Dr. Josefina Casas², Dr. Edward Schuchman³, Dr. Maria Dolores Ledesma¹

¹Centro De Biología Molecular Severo Ochoa, Madrid, Spain, ²Catalan Institute of Advanced Chemistry (IQAC-CSIC), CIBEREHD, Barcelona, Spain, ³Icahn School of Medicine at Mount Sinai, New York, USA

PS1-60

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

Ms. Beatriz Soto Huelin¹, PhD. Rebeca Busto², PhD. M^a Dolores Ledesma¹

¹Centro de Biología Molecular Severo Ochoa, Madrid, España, ²Instituto Ramón y Cajal de Investigación Sanitaria, Madrid, España



PS1-61

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

Ms. Ana Toledano-Zaragoza¹, Mr. Miguel Parra¹, Dr. Víctor Briz¹, Ms. Rocío Alfaro², Dr. Rafael Luján², Dr. José Antonio Esteban¹, Dr. María Dolores Ledesma¹

¹Centro De Biología Molecular "Severo Ochoa", Madrid, Spain, ²Instituto de Investigación en Discapacidades Neurológicas (DINE), Albacete, Spain

PS1-62

Nrg1 haploinsufficiency alters inhibitory cortical circuits

Dr Carmen Navarro-Gonzalez¹, Yaiza Domínguez Canterla¹, Dr Ángela Rodríguez-Prieto¹, Ana González-Manteiga¹, PhD Marta Navarrete-Llinás², PhD Marina Benito Vicente³, **Dr. Pietro Fazzari¹**

¹Cipf, Centro De Investigacion Principe Felipe, Valencia, Spain, ²CSIC, Madrid, Spain, ³Hospital Nacional de Paraplégicos, Toledo, Spain

PS1-63

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

Prof. Raquel Marin¹, Dr. Fátima Mesa-Herrera², Dr. Eduardo Torrealba³, Prof. Mario Diaz¹

¹Universidad De La Laguna, Santa Cruz De Tenerife, Spain, ²Centro Atlántico del Medicamento, La Laguna, Spain, ³Hospital Universitario de Gran Canaria Dr. Negrín, , Spain

PS1-64

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

Mr. Juan Miguel Godoy Corchuelo¹, Ms Zeinab Ali², Mr Luis C. Fernández-Beltrán¹, Mr Jordi Matias-Guiu Antem¹, Mr Thomas Cunningham², Ms Silvia Corrochano¹

¹Fundación Para La Investigación Sanitaria Del Hospital Clínico San Carlos, Madrid, Spain, ²MRC Harwell Institute , Oxfordshire, United Kingdom

PS1-65

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

Dr. Cristina Sánchez-Puelles^{1,2}, Dr. Gertrudis Perea², Dr. José María Frade²

¹Tetaneuron, Valencia, Spain, ²Cajal Institute (CSIC), Madrid, Spain

PS1-66

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



Ms. Amaia Nuñez-delMoral¹, Dr. Bianchi P.C.², Augusto Anesio², Paola Palombo², Dr. Cruz F.C.², Dr. Vincent Vialou³, Dr. Callado L.F.¹, Dr. Erdozain A.M.¹

¹University of the Basque Country (UPV/EHU) and Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Leioa, Spain, ²Universidade Federal de São Paulo - UNIFESP, São Paulo, Brazil, ³Neurosciences Paris Seine - Institut de Biologie Paris Seine (NPS – IBPS), Sorbonne Université, INSERM U1130, CNRS UMR8246, Paris, France

PS1-67

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

Mr. Luis Carlos Fernandez-Beltran¹, Mr. Juan Miguel Godoy Corchuelo¹, Ms. Maria Losa-Fontangordo¹, Dr. Jorge Matias-Guiu Guia¹, Dr. Silvia Corrochano Sánchez¹

¹Instituto de Investigación Sanitaria del Hospital Clínico San Carlos (IdISSC), Madrid, Spain

PS1-68

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

Ms. Monica Guerrero Carrasco¹, Ms. Imogen Targett¹, Mr. Adrian Olmos-Alonso¹, Dr. Mariana Vargas-Caballero¹, Dr. Diego Gomez-Nicola¹

¹University Of Southampton, Southampton, United Kingdom

PS1-69

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

Ms. Natalia López-González del Rey^{1,2}, Dr. Carmen Cavada³, Dr. José Ángel Obeso^{1,4}, Dr. Javier Blesa^{1,4}

¹HM CINAC (Centro Integral de Neurociencias Abarca Campal), Hospital Universitario HM Puerta del Sur, HM Hospitales, Móstoles, Spain, ²PhD Program in Neuroscience, Autonoma de Madrid University, , Spain, ³School of Medicine, Universidad Autónoma de Madrid, , Spain, ⁴CIBERNED (Center for Networked Biomedical Research on Neurodegenerative Diseases), Instituto Carlos III, , Spain

PS1-70

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

Ms. Sandra Villar-conde¹, Ms. Melania Gonzalez-Rodriguez¹, Ms. Veronica Astillero-Lopez¹, Ms. Patricia Villanueva-Anguila¹, Dr. Daniel Saiz-Sanchez¹, Dr. Isabel Ubeda-Banon¹, Prof. Alino Martinez-Marcos¹, Dr. Alicia Flores-Cuadrado¹

¹Ciudad Real Medical School/CRIB, University of Castilla-La Mancha, Ciudad Real, Spain

PS1-71

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



Ms. Dina Medina-Vera^{1,2,3,4}, Dr. Cristina Rosell-Valle¹, Dr. Emma N. Zambrana-Infantes⁵, Antonio J. López-Gamero^{1,2}, Mr. Andrés Gonzalez-Jimenez⁶, Mr. Juan A. Navarro^{1,3}, Dr. Francisco J. Pavon^{1,4}, Dr. Luis J. Santín⁵, Dr. Juan Suarez^{1,3}, Dr. Fernando Rodríguez de Fonseca¹

¹Instituto de Investigación Biomédica de Málaga-IBIMA, Unidad de Gestión Clínica de Salud Mental, Hospital Regional Universitario de Málaga, Málaga, Spain, ²Facultad de Ciencias, Universidad de Málaga, Málaga, Spain, ³Facultad de Medicina, Universidad de Málaga, Málaga, Spain, ⁴Instituto de Investigación Biomédica de Málaga-IBIMA, Unidad de Gestión Clínica del Corazón, Hospital Universitario Virgen de la Victoria, Málaga, Spain, ⁵Facultad de Psicología, Universidad de Málaga, Málaga, Spain, ⁶Bioinformatic ECAI, Instituto de Investigación Biomédica de Málaga-IBIMA, Málaga, Spain

PS1-72

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

Ms. Morgan Ramón-Landreau^{1,2}, Dr. Noelia López-Sánchez^{1,2}, Dr. José María Frade¹

¹Cajal Institute (CSC), Madrid, Spain, ²Tetranuron S.L., Valencia, Spain

PS1-73

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

Dr. Natalia Arias^{1,2}, Mrs Dhruv Sigh¹, Ms Aleksandra Kaliszewska¹, Mrs Joseph Allison¹, Ms Barbora Vidimova¹, Ms Sara Ketola¹, Ms Megan Tomlin¹, Prof Christopher Shaw¹

¹UK Dementia Research Institute at King's College London, Institute of Psychiatry, Psychology and Neuroscience, Department of Basic & Clinical Neuroscience, London, United Kingdom, ²INEUROPA, Instituto de Neurociencias del Principado de Asturias, Oviedo, Spain

PS1-74

Trophic dependence of abducens motoneurons on muscle VEGF

Ms. P. M. Calvo¹, Dr. R. G. Hernández¹, Prof. R. R. de la Cruz¹, Prof. A. M. Pastor¹

¹Facultad de Biología, Universidad de Sevilla, Sevilla, Spain

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

Ms Paloma Sevilla-Ferrer¹, Mr Josep Pardo-García¹, Ms Elena Martínez-Rodríguez¹, Dr María Abellán-Álvarez¹, Dr Mónica Santos², Dr Enrique Lanuza¹, **Dr. Carmen Agustín-Pavón¹**

¹Universitat De València, València, Spain, ²Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal



PS1-76

FAMILIAL ALZHEIMER'S DISEASE GENE MUTATIONS REGULATE MITOCHONDRIAL DNA REPLICATION, TRANSCRIPTION AND RELEASE.**Margalida Puiggròs**^{1,3}, Verónica Pablo-Fontecha^{1,3}, Andrea Reparaz^{1,3}, Petar Podlesniy^{1,3}, Dr. Ramon Trullas^{1,2,3}¹Neurobiology Unit, IIBB/CSIC, Barcelona, Spain, ²IDIBAPS, Barcelona, Spain, ³CIBERNED, Barcelona, Spain

PS1-77

Cellular plasticity of neuropeptidergic systems in the mouse hypothalamus.**Dr. Pilar Madrigal**¹, Dr. Sandra Jurado¹¹CSIC, San Juan de Alicante, Spain

PS1-78

FUNCTIONAL PROPERTIES AND MOLECULAR MACHINERY UNDERLYING OXYTOCIN RELEASE**Ms. Beatriz Aznar-Escolano**¹, Dr. M. P. Madrigal¹, Dr. Sandra Jurado¹¹Instituto De Neurociencias De Alicante, San Juan de Alicante, España

PS1-79

Mitochondrial fission factor (MFF) regulates mitochondrial dynamics and excitability of Agouti related peptide (AgRP)-expressing neurons**Ms. Almudena-Rosa Del Río Martín**^{1,2,3}, Ms. Marie H. Solheim^{1,2,3}, Mr. Gagik Yeghiazaryan^{2,4}, Mr. Alain J. de Solis^{1,2,3}, Mr. Paul Mirabella^{1,2,3}, Mr. Henning Fenselau^{1,2,3}, Mr. Peter Kloppenburg^{2,4}, Mr. Jens C. Brüning^{1,2,3}¹Max Planck Institute For Metabolism Research, Cologne, Germany, ²Excellence Cluster on Cellular Stress Responses in Aging Associated Diseases (CECAD), Cologne, Germany, ³Center of Molecular Medicine Cologne (CMMC), University of Cologne, Cologne, Germany, ⁴Institute for Zoology, Biocenter, University of Cologne, Cologne, Germany

PS1-80

Fabrication of Pine oil loaded Donepezil and TPGS stabilized ultra-fine nanoemulsion via Intranasal route for Alzheimer's disease**Mr. Mayank Handa**¹, Dr. Rahul Shukla¹¹National Institute Of Pharmaceutical Education And Research-raebareli, Lucknow, India

PS1-81

Scaffolds of Mobile Extracellular Matrix Molecules Enhance Maturation of Human Stem Cells-Derived Neurons**Alberto Ortega**¹, Zaida Alvarez¹, Kohei Sato¹, Ivan Sasselli¹, Alexandra Edelbrock¹, Katherina Quinlan², Chiara Mussumucci¹, Samuel Stupp¹, Evangelos Kiskinis¹¹Northwestern University, Chicago, USA, ²University of Rhode Island, USA



PS1-82

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

Yurena Polo^{1,3}, Jon Luzuriaga¹, Sergio Gonzalez de Langerica¹, Beatriz Pardo Rodriguez¹, Edurne Marin¹, Daniel E. Martínez-Tong⁴, Gaskon Ibarretxe¹, Fernando Unda¹, JR Sarasua^{1,3}, Aitor Larrañaga^{1,3}, **JR Pineda^{1,2}**

¹University of the Basque Country (UPV/EHU), Leioa, Spain, ²Achucarro Basque Center for Neuroscience Fundazioa, Leioa, Spain, ³Polimerbio S.L., Donostia-San Sebastian, Spain, ⁴University of the Basque Country (UPV/EHU), Donostia, San Sebastián, Spain

PS1-83

Modulating corticostriatal activity with transcranial static-magnetic-field stimulation

Mr. Jaime Caballero-Insaurriaga^{1,2}, Dr. José Ángel Pineda-Pardo¹, Dr. Guglielmo Foffani³

¹Centre for Integrative Neuroscience AC (HM CINAC), Madrid, Spain, ²Polytechnical University of Madrid (UPM), Madrid, Spain, ³Hospital Nacional de Paraplégicos, Toledo, Spain

PS1-84

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

Eng. Richard Cisneros¹, M.Sc. Roy Andrade², Ph.D. Elmer Chávez¹, Ph.D Luis Aguilar³

¹National University of Huancavelica, Huancavelica, Peru, ²Cayetano Heredia University, Lima, Peru, ³San Ignacio de Loyola University, Lima, Peru

PS1-85

Acetylcholinesterase in cortical neurons derived from patient-derived iPS.

Ms. María-Ángeles Cortés-Gómez^{1,2,3}, Dr. Lotta Agholme⁴, Prof. Henrik Zetterberg⁴, Dr Javier Sáez-Valero^{1,3}, Dr. María-Salud García-Ayllón^{1,2,3}

¹Instituto de Neurociencias de Alicante - UMH - CSIC, San Juan de Alicante, Spain, ²Hospital General Universitario de Elche - FISABIO, Elche, España, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, España, ⁴University of Gothenburg, Gothenburg, Sweden

PS1-86

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

Dr. Anna Lozano-Urefia¹, Esteban Jiménez-Villalba¹, Dr. Mitsuro Ito², Dr. Sacri R. Ferrón¹

¹Universitat De València, Valencia, Spain, ²University of Cambridge, Cambridge, United Kingdom



PS1-87

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

Pilar Rodríguez-Martín¹, Almudena Sanz¹, Eva Monserrat¹, Inés Colmena¹, Cristina Medina-Menéndez¹, Véronique Lefebvre², Aixa V. Morales¹

¹Instituto Cajal (C.S.I.C.), Madrid, Spain, ²Children's Hospital of Philadelphia, Philadelphia, PA 19104, USA

PS1-88

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

Ms. María Norte Muñoz¹, Dr. Fernando Lucas Ruíz¹, Mr. Alejandro Gallego Ortega¹, Dr. David García Bernal¹, Prof. Manuel Vidal Sanz¹, Dr. Marta Agudo Barriuso¹

¹Universidad De Murcia, Murcia, Spain



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-Herrero², 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}

¹Spanish Network for Research in Mental Health (CIBERSAM), Madrid, Spain, ²Seville Biomedical Research Centre (IBIS), Seville, Spain, ³University Hospital Virgen del Rocío, Seville, Spain, ⁴University of Seville, Seville, Spain

PS2-02

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

Dr. Marta Fernández-Nogales¹, María Teresa López-Cascales¹, Dr. Rafael Muñoz-Viana¹, Dr. Jordi Fernández-Albert¹, Dr. Verónica Murcia-Belmonte¹, Dr. Ángel Barco¹, Dr. Eloisa Herrera¹

¹Instituto de Neurociencias, Alicante, Spain

PS2-03

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

Dr. Veronica Murcia-Belmonte¹, M Teresa López-Cascales¹, Dr Angel Barco¹, Dr Eloisa Herrera¹

¹Instituto de Neurociencias UMH-CSIC, Alicante, Spain

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}

¹Lleida's Institute for Biomedical Research-Dr. Pífarre Foundation (IRBLleida), Lleida, Spain, ²University of Lleida, Lleida, Spain

PS2-05

Wnt1 effect on the Fasciculus retroflexus axonal navigation.

Ms. Verónica Company¹, Ms. Ana Moreno-Cerdá¹, Ms. Francisca Almagro-García¹, Dr. Salvador Martínez¹, Dr. Diego Echevarría¹, Dr. Eduardo Puellas¹

¹Instituto 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 Cerdá¹, Ms Verónica Company¹, Ms Raquel Murcia-Ramón¹, Dr. Abraham Andreu-Cervera¹, Ms Francisca Almagro-García¹, Dr Salvador Martínez¹, Dr Diego Echevarría¹, Dr Eduardo Puelles¹

¹Instituto 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}

¹Lleida's Institute For Biomedical Research-Dr. Pifarré Foundation (IRBLleida), Lleida, Spain, ²University 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}

¹Lleida's Institute for Biomedical Research-Dr. Pifarré Foundation (IRBLleida), Lleida, Spain, ²University Of Lleida, Lleida, Spain

PS2-09

Astrocytes gate spike timing dependent plasticity in the Nucleus Accumbens

Mr. Samuel Alberquilla¹, Dra Carmen Nanclares², Dra Rosario Moratalla¹, Dr Alfonso Araque², Dr Eduardo Daniel Martín¹

¹Instituto Cajal, Madrid, Spain, ²University 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 Polishchuk¹, Mr. Victor Cillerós-Mañé¹, Ms. Laia Just-Borràs¹, Ms. Maria Durán-Vigara¹, Mr. Genís Vandellós¹, Ms. Marta Balanyà Segura¹, Ms. Gemma Argilaga¹, Dr. Marta Tomàs¹, Dr. Neus García¹, Dr. Josep Tomàs¹, Dr. Maria Angel Lanuza¹

¹Universitat 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 Faust⁵, Dr. Dorothy Schafer⁵, Dr. Amanda Sierra^{1,2,6}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of the Basque Country, Leioa, Spain, ³University of Oviedo, Oviedo, Spain, ⁴Instituto de Investigación Sanitaria del Principado de Asturias, Oviedo, Spain, ⁵University of Massachusetts Medical School, Worcester MA 01605, USA, ⁶Ikerbasque Foundation, Bilbao, Spain

PS2-12

Modification of the extracellular matrix impairs microglial motility

Dr. Federico Soria^{1,2,3}, Lic. Irene Tomé-Velasco¹

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²Departamento de Neurociencias, Universidad del País Vasco, Leioa, Spain, ³Centro de Investigación Biomédica en Red Enfermedades Neurodegenerativas (CIBERNED), , Spain

PS2-13

Brain estrogen synthesis regulates synaptic inhibition in female hippocampus

Dr. Alicia Hernández-Vivanco¹, Dr. Íñigo Azcoitia², Alba González-Alonso¹, Dr. Pablo Méndez¹

¹Instituto Cajal, Madrid, Spain, ²Universidad 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 Campos¹, Ms. Marta Estévez-Rodríguez¹, PhD Isabel Cordones¹, **PhD Javier Márquez-Ruiz¹**

¹Pablo de Olavide University, Seville, Spain

PS2-15

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

Ms. Marta Casas², Dr. Artur Llobet²

¹IDIBELL, Barcelona, Spain, ²Institute of Neurosciences, Barcelona, Spain

PS2-16

Towards pharmacological modulation of microglial phagocytosis

Ms. Noelia Rodríguez-Iglesias^{1,2}, Mr. Iñaki Paris^{1,2}, Dr. Jorge Valero³, Dr. Amanda Sierra^{1,2,4}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of the Basque Country, Leioa, Spain, ³Institute of Neurosciences of Castilla y León - INCyL - University of Salamanca, Salamanca, Spain, ⁴Ikerbasque Foundation, Bilbao, Spain



PS2-17

TRESK background potassium channel modulates thermal sensitivity in mice

Ms. Anna Pujol-Coma¹, Ms. Emily Eriksson¹, Dr. Gerard Callejo^{1,2}, Dr. Núria Comes^{1,2}, Dr. Xavier Gasull^{1,2}

¹Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

PS2-18

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

Dr. Anna Casanovas¹, Ms. Sara Salvany¹, Ms. Lúcia Piedrafita¹, Ms. Sílvia Gras¹, Ms. Alao Gatiús¹, Ms. Alba Blasco¹, Dr. Olga Tarabal¹, Dr. Sara Hernández¹, Prof. Jordi Calderó¹, Dr. Markus H. Schwab², Prof. Josep E. Esquerda¹

¹Universitat de Lleida / IRBLleida, Lleida, Spain, ²Institute of Cellular Neurophysiology and Center for Systems Neuroscience (ZSN), University of Veterinary Medicine Hannover, Hannover, Germany

PS2-19

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

Dr. Carlos Andres Sanchez Leon¹, Dr. Christoph van Thriel¹, Dr. Michael Nitsche¹

¹Leibniz 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-Pereira³, Dr. Juan García-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}

¹Universidad De Sevilla, Sevilla, España, ²Instituto Biomedicina Sevilla, Sevilla, España, ³Universidad de Cádiz, , España

PS2-21

ROLE OF PI3K CATALYTIC ISOFORMS IN NEURONAL METABOLISM

Ms. Alba Fernández-Rodrigo¹, Dr. Carla Sánchez-Castillo¹, Dr. María Isabel Cuartero², Mrs. Cristina Boers¹, Dr. José Antonio Esteban¹

¹CBMSO-CSIC, Madrid, Spain, ²CNIC, Madrid, Spain



PS2-22

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

Mr. Sergio López García¹, Mr. Pablo Zamorano González², Prof. Jose Antonio Esteban García¹

¹Centro de Biología Molecular Severo Ochoa (CBMSO), Madrid, Spain, ²Facultad de medicina- Universidad de Málaga, Málaga, Spain

PS2-23

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

Dr. Mar Puigdel·lvol^{1,2}, Dr. Stefan Milde², Dr. Anna Vilalta², Dr. Tom Cockram², Dr. David H. Allendorf², Mr. Jeff Lee², Dr. Miguel A. Burguillos², Ms. Katryna Pampu·schenko³, Dr. Vilmante Borutaite³, Dr. Hugh N. Nuthall⁴, Dr. Jack H. Brelstaff², Prof. Maria Grazia Spillantini², Prof. Guy C. Brown²

¹Universitat De Barcelona, Barcelona, Spain, ²University of Cambridge, Cambridge, United Kingdom, ³Lithuanian University of Health Sciences, Kaunas, Lithuania, ⁴Eli Lilly Research & Development, Erl Wood Manor, United Kingdom

PS2-24

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

Ms. Esperanza López-Merino¹, PhD. Víctor Briz¹, Ms. Jessie Jiang¹, PhD. Jose A. Esteban¹

¹Centro de Biología Molecular Severo Ochoa, Madrid, Spain

PS2-25

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

Mr. Ramon Fores-pons^{1,2}, **Dr. Manuel Narvaez¹**, Mr. Alexander Lopez-Salas², Dr. Kjell Fuxe², Dr. Dasiel Oscar Borroto-Escuela^{1,2}

¹Instituto De Investigación Biomédica De Málaga, Facultad De Medicina, Universidad De Málaga, Málaga, Spain,

²Department of Neuroscience. Karolinska Institutet. , Stockholm, Sweden

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}

¹Centro de Tecnología Biomédica. Universidad Politécnica de Madrid. , Madrid, Spain, ²PhD Program in Neuroscience, Autonoma de Madrid University, Madrid 28029, Spain, ³Hertie Institute for Clinical Brain Research Otfried-Müller-Str. 2772076 , Tübingen, Germany, ⁴Cajal Institute. CSIC, Madrid, Spain, ⁵Architecture and Informatics System Technology. Universidad Politécnica de Madrid, Madrid, Spain



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 Otero², Dr. Roger Redondo³, Dr. Victor Borrell², Dr. Jorge Brotons Mas^{1,2}¹Universidad Cardenal Herrera CEU, Elche, Spain, ²Instituto de Neurociencias UMH-CSIC, Alicante, Spain, ³Roche 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 Martínez Bellver^{1,2}** Anna Velencei², Dr. Nicola Solari², Claire-Hélène de Belval³, Dr. Balázs Hangya²¹University Of Valencia, Valencia, Spain, ²Institute of Experimental Medicine, Budapest, Hungary, ³Ecole Normale Supérieure, Paris, France

PS2-29

Dopaminergic blockades decrease physical exercise maintenance response.**Mr. Daniel Garrigos¹**, Mr. Alberto Barreda¹, Dr. Marta Martínez-Morga¹, Dr. Angel Toval¹, Mr. Yevheniy Kutsenko¹, Dr. Kuei Y. Tseng², Dr. José Luis Ferrán¹¹University Of Murcia, Murcia, Spain, ²University 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-León¹**, Mr. Emilio Martínez-Márquez¹, Mrs. Guadalupe Asensio-Gómez¹, Dr. Pablo García-Junco-Clemente¹, Dr. José Luis Nieto-González¹¹Instituto de Biomedicina de Sevilla (IBiS) HUVR/CSIC/Universidad de Sevilla, Sevilla, Spain

PS2-31

Area-specific patterns of convergent thalamic inputs to the mouse motor cortex**Ms. Carmen Alonso-Martínez¹** Dr. César Porrero¹, Dr. Francisco Clascá¹¹Sch. Of Medicine. Autonomous University Of Madrid, Madrid, Spain



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 Levin², Dr. Antonio Murciano¹, Dr. Francisco Conejero¹, Mrs. Julia Murciano¹, Ms. Martín García-Montes¹

¹Universidad Complutense de Madrid, Madrid, Spain, ²Tufts University, Boston, United States

PS2-33

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

Ms. Joana Coveló¹, Dr. Almudena Barbero-Castillo¹, Ms. Alessandra Camassa¹, Prof. Dr. María Victoria Sánchez-Vives^{1,2}

¹Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ²Catalan Institution for Research and Advanced Studies (ICREA), Barcelona, Spain

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 Miguel-Río^{1,2,3}**, Mrs. Verónica Paz^{1,2,3}, Dr. Carme Casal¹, Mrs. Enma Muñoz-Moreno⁴, Dr. Xavier López-Gil⁴, Dr. Analia Bortolozzi^{1,2,3}

¹Institut d'Investigacions Biomèdiques de Barcelona (IIBB), Spanish National Research Council (CSIC), Barcelona, Spain, ²Institut d'Investigacions August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), ISCIII, Madrid, Spain, ⁴Magnetic Resonance Imaging Core Facility, Institut d'Investigacions August Pi i Sunyer (IDIBAPS), Barcelona, Spain

PS2-35

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

Mr. Manuel Esteban Vila-Martin^{1,2}, Ms. María. Villafranca-Faus², Ms. Anna. Teruel-Sanchis¹, Mr. Daniel. Esteve², Mr. Esteban Merino², Dr. Sergio Martínez-Bellver², Dra. Joana. Martínez-Ricós², Dra. Ana. Cervera-Ferri², Dra. Ana. Lloret², Dr. Vicent. Teruel-Martí², Prof. Enrique Lanuza¹

¹University of Valencia, Burjassot., Spain., ²University of Valencia, Valencia., Spain.

PS2-36

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

Dr. Alexandre Mahrach¹, Xian Zhang^{2,3}, Da Li^{2,3}, Dr Chengyu Tony Li^{2,3}, Dr Albert Compte¹

¹IDIBAPS, Barcelona, Spain, ²Institute of Neuroscience, Shanghai, China, ³University of Chinese Academy of Sciences, Beijing, China



PS2-37

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

Ms. Noemí Sola-Sevilla¹, Dr. Ana Ricobaraza¹, Dr. Rubén Hernandez-Alcoceba¹, Dr. Maria S. Aymerich¹, Dr. Rosa M. Tordera¹, Dr. Elena Puerta¹

¹University Of Navarra, Pamplona, Spain

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}

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

PS2-39

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

Dr. María Abellán-Álvarez¹, Dr. Guillermo Ayala², Dr. Manuela Barneo-Muñoz³, Dr. Fernando Martínez-García³, Dr. Carmen Agustín-Pavón¹, Dr. Enrique Lanuza¹

¹Unitat mixta UV-UJI de Neuroanatomia Funcional Comparada, Departament de Biologia Cel·lular, Biologia Funcional i Antropologia Física, Facultat de Ciències Biològiques, Universitat de València., Burjassot, Spain, ²Departament d'Estadística i Investigació Operativa, Facultat de Matemàtiques; Universitat de València., Burjassot, Spain, ³Unitat mixta UV-UJI de Neuroanatomia Funcional Comparada, Unitat Predepartamental de Medicina, Fac. Ciències de la Salut, Universitat Jaume I., Castelló de la Plana, Spain

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}, D^a Mariana Pita-Rodriguez^{1,2,5}, Dr. Miguel A Barbancho¹, Dr. Alexander López-Salas², D^a Paloma Rosas-Marqués¹, D. Pablo Zamorano-González¹, Dr. Kjell Fuxe², Dra. Natalia García Casares^{1,2}, **Dr. Manuel Narvaez^{1,2}**

¹Instituto De Investigación Biomédica De Málaga, Facultad de Medicina, Universidad de Málaga, Malaga, Spain, ²Department of Neuroscience, Karolinska Institute, Stockholm, Sweden, ³Department of Biomolecular Science, Section of Physiology, University of Urbino, Urbino, Italy, ⁴Grupo Bohío-Estudio, Observatorio Cubano de Neurociencias, Yaguajay, Cuba, ⁵Departamento de Neurogenética, Instituto de Neurología y Neurocirugía, La Habana, Cuba



PS2-42

INDIVIDUAL VARIATION IN DROSOPHILA MELANOGASTER IMPACTS FEEDING BEHAVIOR

Mr. Ruben Molla Albaladejo¹, Mrs. Sara Adelaida Del Rey Mateos¹, Dr. Juan Antonio Sanchez Alcañiz¹

¹Instituto de Neurociencias de Alicante UMH-CSIC, San Juan de Alicante, España

PS2-43

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

Ms. Júlía 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}

¹Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Instituto de Salud Carlos III, Madrid, Spain,

²Instituto de Biomedicina y Biotecnología de Cantabria, IBBTEC (UC, CSIC, SODERCAN), Santander, Spain, ³Facultad de Medicina, UC, Santander, Spain

PS2-44

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

Dr. Carla Ramon Duaso¹, Ms. Laura Vidal Palencia¹, Mr. Jose Antonio González Parra¹, Dr. Arnau Busquets García¹

¹IMIM-Hospital del Mar Medical Research Institute, Barcelona, Spain

PS2-45

The associative striatum mediates flexible expectation-based choice biases

Dr. Carlos Sindreu¹, Dr. Rafael Marín¹, Ms Lorena Jimenez¹, Dr. Yerko Fuentealba¹, Dr. Daniel Duque¹, Dr. Jaime de la Rocha¹

¹IDIBAPS, Barcelona, Spain

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 Parra¹, Dr. Elk Kossatz¹, Ms. Emma Veza¹, Dr. Patricia Robledo^{1,2}, Dr. Arnau Busquets García¹, Dr. Neus Pizarro^{1,3}

¹IMIM-Hospital del Mar Medical Research Institute, Barcelona, Spain, ²Department of Experimental and Health Sciences, University Pompeu Fabra (UPF), Barcelona, Spain, ³Autonomous University of Barcelona, Bellaterra, Barcelona, Spain



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-Martínez¹**, Ms. Lucía de los Reyes-Ramírez¹, Ms. Irene Martínez-Gallego⁴, Prof. Antonio Rodríguez-Moreno⁴, Prof. Rafael Maldonado^{1,5}, Prof. Andrés Ozaita^{1,5}

¹University Pompeu Fabra, Barcelona, Spain, ²Institute for Bioengineering of Catalonia, Barcelona, Spain, ³University of Barcelona, Barcelona, Spain, ⁴University Pablo de Olavide, Seville, Spain, ⁵IMIM (Hospital del Mar Medical Research Institute), Barcelona, Spain

PS2-48

Neuraminidase-induced neuroinflammation causes anxiety and microgliosis in the amygdala

Ms. Ana León-Rodríguez¹, Ms. María del Mar Fernández-Arjona^{1,3}, Ms. Carmen Pedraza^{2,3}, Mr. Jesús M M. Grondona^{1,3}, Ms. María Dolores López-Ávalos^{1,3}

¹University of Málaga, Departamento de Biología Celular, Genética y Fisiología (Área de Fisiología Animal), Málaga, Spain, ²University of Málaga, Departamento de Psicobiología y Metodología en las CC, Málaga, Spain, ³Instituto de Investigación Biomédica de Málaga-IBIMA, Málaga, Spain

PS2-49

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

Mr. Manel Vila-Vidal¹, Dr. Mariam AlKhawaja², Dr. Mar Carreño^{2,3}, Dr. Pedro Roldán⁴, Dr. Jordi Rumià⁴, Dr Gustavo Deco^{1,5}, Dr. Antonio Donaire^{2,3,6}, Dr. Adrià Tauste Campo^{1,7}

¹Universitat Pompeu Fabra, Barcelona, Spain, ²Epilepsy Program-Hospital Clínic, Barcelona, Spain, ³Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ⁴Epilepsy Program, Neurosurgery, Hospital Clínic, Barcelona, Spain, ⁵Institució Catalana de Recerca i Estudis Avançats, Barcelona, Spain, ⁶CIBERBBN, Networking Centre on Bioengineering, Biomaterials and Nanomedicine, Barcelona, Spain, ⁷Universitat Politècnica de Catalunya, Barcelona, Spain

PS2-50

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

Mr. Manel Vila-Vidal¹, Dr. Carmen Pérez-Enríquez³, Dr. Alessandro Principe^{1,2,3}, Dr Rodrigo Rocamora^{1,2,3}, Dr Gustavo Deco^{1,4}, Dr. Adrià Tauste Campo^{1,5}

¹Universitat Pompeu Fabra, Barcelona, Spain, ²Epilepsy Unit-Hospital del Mar, Barcelona, Spain, ³Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain, ⁴Institució Catalana de Recerca i Estudis Avançats, Barcelona, Spain, ⁵Universitat Politècnica de Catalunya, Barcelona, Spain



PS2-51

Finding Useful Biomechanics Markers as Functional Correlates of the Eyelid Movements

Mr. Victor Castro-Andrés¹, Dr. Agnès Gruart¹, Dr. Raudel Sánchez-Campusano¹

¹Division of Neuroscience, Universidad Pablo de Olavide, 41013-Seville, Spain

PS2-52

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

Mr. Jaime Sánchez Claros¹, Dr. Aref Pariz^{2,3}, Dr. Alireza Valizadeh³, Dr. Santiago Canals⁴, Dr. Claudio Mirasso¹

¹Instituto de Física Interdisciplinar y Sistemas Complejos (IFISC-UIB), Palma, Spain, ²University of Ottawa, Ottawa, Canada, ³Institute for Advanced Studies in Basic Sciences, Zanjan, Iran, ⁴Instituto de Neurociencias (CSIC-UMH), Sant Joan d'Alacant, Spain

PS2-53

Astrocytic calcium dynamics in multiple sclerosis: regulation by CB1 receptors

Alvaro Moreno-García^{1,2,3,5,6}, Teresa Colomer^{1,2,3}, Ana Bernal-Chico^{1,2,3}, Asier Ruiz^{1,2,3}, Carmen L Utrilla², Urszula Skupio^{5,6}, Roman Serrat^{5,6}, Carlos Matute^{1,2,3}, Giovanni Marsicano^{5,6}, **Dr. Susana Mato^{1,2,3,4}**

¹University of the Basque Country UPV/EHU, Leioa, Spain, ²Achucarro Basque Center for Neuroscience, Leioa, Spain, ³Instituto de Salud Carlos III (CIBERNED), Madrid, Spain, ⁴Biocruces Bizkaia, Barakaldo, Spain, ⁵INSERM U1215, Neurocentre Magendie, Bordeaux, France, ⁶Université de Bordeaux, France

PS2-54

Amyloid propagation in a sporadic model of Alzheimer disease

Juana Andreo-Lopez¹, Francisco Cantero-Molina¹, Miriam Bettinetti-Luque¹, Kelly Huynh², Marie Nguyen², Alwin Cheung², Janine Tran², Celia Da Cunha², Laura Trujillo-Estrada^{1,2}, Cristina Nuñez-Díaz¹, Alessandra Cadete Martini², Stefania Forner², Antonia Gutierrez¹, Frank LaFerla², David Baglietto-Vargas^{1,2}

¹University of Malaga/CIBERNED/IBIMA, Málaga, Spain, ²University of California, Irvine, USA

PS2-55

Effect of the Src inhibitory peptide TAT-Cx43²⁶⁶⁻²⁸³ on neural stem cells with EGFR overexpression or EGFRvIII mutation

Ms. Andrea Álvarez-Vázquez^{1,2}, Dr. Berta Segura-Collar³, Dr. Pilar Sánchez-Gómez³, Prof. Arantxa Tabernero^{1,2}

¹Instituto de Neurociencias de Castilla y León (INCyL), University of Salamanca, Salamanca, Spain, ²Instituto de Investigación Biomédica de Salamanca (IBSAL), Salamanca, Spain, ³Neuro-oncology Unit, Instituto de Salud Carlos III-UFIEC, Madrid, Spain



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 Cruzado², Mrs Isabel María Alonso Bellido^{1,2}, Dr Manuel Sarmiento Soto^{1,2}, Dr José Luis Venero Recio^{1,2}

¹Instituto de Biomedicina Sevilla (IBiS), Sevilla, Spain, ²Departamento de Bioquímica y Biología Molecular. Universidad de Sevilla, Sevilla, España

PS2-57

ENDO-LYSOSOMAL DISRUPTION DRIVES MICROGLIAL PHAGOCYTOSIS DYSFUNCTION IN STROKE

Ms. Virginia Sierra-Torre^{1,2}, Dr. Ainhoa Plaza-Zabala^{1,2}, Ms. Sol Beccari^{1,2}, Ms. Paloma R. Huguet-Rodriguez², Dr. Estibaliz Capetillo-Zarate^{1,2,3}, Dr. Alejandro Carretero⁴, Dr. Maria Domercq^{1,2,4}, Dr. Jorge Valero^{1,3}, Dr. Amanda Sierra^{1,2,3}, Dr. Mikel García Zaballa²

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of the Basque Country, Leioa, Spain, ³Ikerbasque Foundation, Bilbao, Spain, ⁴Instituto de Salud Carlos III, Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Leioa, Spain

PS2-58

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

Sílvia Locubiche Serra^{1,2}, Ana Santos Gómez², Mireia Olivella³, Flavia De Santis¹, Xavier Altafaj², Davide Rubbini¹, Javier Terriente¹

¹ZeClinics, Institut de Recerca Germans Trias i Pujol (IGTP), Badalona, Spain, ²IDIBAPS, August Pi i Sunyer Biomedical Research Institute, Barcelona, Spain, ³Universitat de Vic – Universitat Central de Catalunya, Vic, Spain

PS2-59

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

Dr. Oksana Kutsyr¹, Dr. Agustina Noailles¹, Dr. Natalia Martínez-Gil¹, Ms. Lucía Maestre-Carballa¹, Dr. Manuel Martínez-García¹, Dr. Victoria Maneu¹, Dr. Nicolás Cuenca¹, **Dr. Pedro Lax¹**

¹University of Alicante, Alicante, Spain



PS2-60

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

Ms. Oihane Martínez-Peula¹, Dr Alfredo Ramos-Miguel^{1,2,3}, Mr Benito Morentín⁴, Dr Callado L.F.^{1,2,5}, Dr Meana J.J.^{1,2,5}, Dr Guadalupe Rivero^{1,2,5}

¹University of the Basque Country (UPV/EHU), Leioa, Spain, ²Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), , Spain, ³University of British Columbia, Vancouver,, Canada, ⁴Institute of Legal Medicine, Bilbao,, Spain, ⁵Biocruces Bizkaia Health Research Institute, Barakaldo,, Spain

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-Moreno², Dr Javier López-Gil², Dra Guadalupe Soria², Dr Manuel J Rodríguez^{1,2,3}, Dr Jordi Alberch^{1,2,3}, Dr Mercè Masana^{1,2,3}

¹Dept. Biomedical Sciences, Institute of Neurosciences, School of Medicine and Health Sciences, Universitat de Barcelona, Barcelona, Espanya, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Espanya, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Espanya

PS2-62

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

Ms. Julia Castillo-González¹, Ms Ana Ubago-Rodríguez¹, Ms Marta Caro¹, Ms Irene Forte-Lago¹, Ms Lara Buscemi^{2,3}, Mr Pedro Hernández-Cortés⁴, Mr Lorenz Hirt^{2,3}, Ms Elena González-Rey¹

¹Institute of Parasitology and Biomedicine López-Neyra (Spanish Research Council), Armilla (Granada), Spain, ²Department of Fundamental Neurosciences (University of Lausanne), Lausanne, Switzerland, ³Lausanne University Hospital, Lausanne, Switzerland, ⁴Medicine School (University of Granada), Granada, Spain

PS2-63

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

Ms. Lucía de los Reyes-Ramírez¹, Ms. Araceli Bergadà-Martínez¹, Ms. Marina Reixachs-Solé^{2,3}, Dr. Sara Martínez-Torres^{1,4,5}, Dr. Alba Navarro-Romero^{1,6}, Prof. Rafael Maldonado^{1,7}, Prof. Eduardo Eyras^{2,3,7}, Prof. Andrés Ozaita¹

¹University Pompeu Fabra, Barcelona, Spain, ²EMBL Australia Partner Laboratory Network at the Australian National University, Canberra, Australia, ³The John Curtin School of Medical Research, Canberra, Australia, ⁴Institute for Bioengineering of Catalonia, Barcelona, Spain, ⁵University of Barcelona, Barcelona, Spain, ⁶Vall d'Hebron Research Institute-CIBERNED, Barcelona, Spain, ⁷Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain



PS2-64

Increased serotonin 5-HT_{2A} receptor constitutive activity on Gα_i-protein in post-mortem frontal cortex of subjects with schizophrenia

Ms. Itziar Muneta-Arrate^{1,2}, Dr. Rebeca Díez-Alarcía^{1,2,3}, Dr. Igor Horrillo^{1,2,3}, Dr. Meana J.J.^{1,2,3}

¹University of the Basque Country UPV/EHU, Leioa, Spain, ²Centro de Investigación Biomédica en Red de Salud Mental CIBERSAM, Spain, ³Biocruces Bizkaia Health Research Institute, Barakaldo, Spain

PS2-65

Functional selectivity of serotonin 5-HT_{2A} receptor drugs on Gα_i-proteins in postmortem human brain cortex

Dr. Meana J.J.^{1,2,3}, Ms. Itziar Muneta-Arrate^{1,2}, Ms. Patricia Miranda-Azpiazua^{1,4}, Aintzane García-Bea¹, Igor Horrillo^{1,2,3}, Rebeca Díez-Alarcía^{1,2,3}

¹University of the Basque Country UPV/EHU, Leioa, Spain, ²Centro de investigación Biomédica en Red de Salud Mental CIBERSAM, Spain, ³Biocruces Bizkaia Health Research Institute, Barakaldo, Spain, ⁴Achucarro Basque Center for Neuroscience, Leioa, Spain

PS2-66

BCAS1 defines a heterogeneous population in oligodendroglioma and glioblastoma

Msc. Raquel Morales-Gallé¹, Msc. María José Ulloa-Navas¹, MD. Ricardo Prat-Acín², MD. Gaspar Reynés-Muntaner², Dr. Vicente Herranz-Pérez¹, Prof. José Manuel García-Verdugo¹, MD. Jaime Ferrer-Lozano²

¹University of Valencia-CIBERNED, Valencia, Spain, ²Hospital Universitari i Politècnic La Fe, Valencia, Spain

PS2-67

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

Mr. Lluís Miguel-Río^{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}

¹Institut d'Investigacions Biomèdiques de Barcelona (IIBB), Spanish National Research Council (CSIC), Barcelona, Spain,

²Institut d'Investigacions August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), ISCIII, Madrid, Spain

PS2-68

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

Ms. Elia Marcos-Grañeda¹, Dr. Marta Nieto¹

¹CNB-CSIC, Madrid, Spain



PS2-69

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

PhD candidate DelaCuesta-Barrutia J.¹, Dr Peñagarikano O.^{1,2}, Mr Morentin B.^{3,4}, Dr Callado L.F.^{1,2,4}, Dr Meana J.J.^{1,2,4}, Dr Ramos-Miguel A.^{1,2,5}, Dr Erdozain A.M.^{1,2}

¹University of the Basque Country, UPV/EHU, Leioa,, Spain, ²Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), , Spain, ³Basque Institute of Legal Medicine, Bilbao,, Spain, ⁴Biocruces Bizkaia Health Research Institute, Barakaldo,, Spain, ⁵University of British Columbia, Vancouver BC, Canada

PS2-70

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

José Miguel Brito-Armas¹, Francesca Di Giorgio², Judith Noda Mayor¹, Alessandro Marrero Gagliardi¹, Laura Santana Cordon¹, Noemi Socas Pérez², Thomas J Cunningham³, Elizabeth MC Fisher², Ángel Acebes Vindel⁴, **Abraham Acevedo Arozena¹**

¹Ciberned, Hospital Universitario De Canarias, ITB-ULL, San Cristóbal De La Laguna (tenerife), Spain, ²UCL Institute of Neurology, Department of Neuromuscular Diseases, London , United Kingdom, ³MRC Harwell Institute, Harwell Campus Oxfordshire, United Kingdom, ⁴Dpto ciencias básicas Universidad de la Laguna (ULL), San Cristóbal De La Laguna (tenerife), Spain

PS2-71

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

Mr. Daniel Ruiz-Gabarre^{1,2,3}, Dr. Vega García-Escudero^{1,2,3}, Dr. Ricardo Gargini⁴, Dr Mar Pérez^{1,2}, Ms Esther García¹, Ms Raquel Cuadros¹, Dr Ivó H. Hernández¹, Dr. Jorge R. Cabrera⁵, Dr Ramón García-Escudero^{6,7,8}, Dr. José J. Lucas^{1,9}, Prof. Félix Hernández^{1,9}, Prof Jesús Ávila^{1,9}

¹Centro De Biología Molecular Severo Ochoa, Madrid, Spain, ²Universidad Autónoma de Madrid, Madrid, Spain, ³Graduate Program in Neuroscience, Autónoma de Madrid University, Madrid, Spain, ⁴Instituto de Salud Carlos III-UFIEC, Madrid, Spain, ⁵Fundación Hospital de Jove, Gijón, Spain, ⁶CIEMAT, Madrid, Spain, ⁷Centro de Investigación Biomédica en Red de Cáncer (CIBERONC), Madrid, Spain, ⁸Hospital 12 Octubre Research Institute/CIEMAT, Madrid, Spain, ⁹Networking Research Center on Neurodegenerative Diseases (CIBERNED), Madrid, Spain

PS2-72

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

Dr. Carmen de Labra¹, Dr. Javier Cudeiro^{1,2}, Dr. Casto Rivadulla¹

¹NEUROcom, Departamento de Fisioterapia, Medicina e Ciencias Biomédicas, Facultad de Ciencias da Saúde, Universidade da Coruña (UDC), A Coruña, Spain. Centro de Investigacións Científicas Avanzadas (CICA), Universidade da Coruña (UDC), A Coruña, Spain, ²Centro de Estimulación Cerebral de Galicia, A Coruña, Spain



PS2-73

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

Mr. Andres Vicente-Acosta¹, Dr. Javier Díaz-Nido¹, Dr. Frida Loria²

¹Centro de Biología Molecular Severo Ochoa (CSIC-UAM) and Universidad Autónoma de Madrid (UAM), Madrid, Spain,

²Laboratorio de Apoyo a la Investigación, Hospital Universitario Fundación Alcorcón, Madrid, Spain

PS2-74

Sperm cytoskeleton ODFs genes as a potential mechanism of glioblastoma progression

Ms. Teresa De Los Reyes¹, Dr Sergio Casas-Tintó¹

¹Instituto Cajal CSIC, Madrid, Spain

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 Bainier¹, Dr. Philipp Schoenenberger¹, Dr. Philipp Janz¹, Dr. Miguel Valencia^{2,3}, Dr. Roger Redondo¹

¹Roche Pharma Research and Early Development, Neuroscience and Rare Diseases, Roche Innovation Center Basel, F. Hoffmann-La Roche Ltd, Basel, Switzerland, ²Center of Applied Medical Research, University of Navarra, Pamplona, Spain,

³IdiSNA, Navarra Institute for Health Research, Pamplona, Spain

PS2-76

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

Ms. Irene Lopez Gutierrez¹, Dra. Marta Gonzalez Prieto¹, Dr. Jose Luis Muñoz Madrigal¹, Dr. Juan Carlos Leza¹

¹Universidad Complutense De Madrid, Madrid, Spain

PS2-77

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

M Guillén-Yunta¹, V Valcárcel-Hernández¹, A Montero-Pedrazuela¹, A Guadaño-Ferraz¹

¹Instituto De Investigaciones Biomédicas "Alberto-Sols", Consejo Superior de Investigaciones Científicas (CSIC), Universidad Autónoma de Madrid (UAM), Madrid, Spain



PS2-78

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

Dr. Andreu Matamoros-Angles¹, Dr. Mohsin Shafiq¹, Santra Brenna², Dr Behnam Mohammadi¹, Dr Hermann Clemens Altmepfen¹, Dr Berta Puig², Prof. Dr. Markus Glatzel¹

¹Institute of Neuropathology, University Medical Center Hamburg-Eppendorf., Hamburg, Germany, ²Department of Neurology, Experimental Research in Stroke and Inflammation, University Medical Center Hamburg-Eppendorf., Hamburg, Germany

PS2-79

Δ9-TETRAHYDROCANNABINOL PROMOTES FUNCTIONAL REMYELINATION IN THE MOUSE BRAIN

Tania Aguado^{1,2,3}, Alba Huerga-Gómez^{1,2,3}, Anibal 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}

¹Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Madrid, Spain, ²Complutense University, Madrid, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁴University of the Basque Country UPV/EHU, Leioa, Spain, ⁵Achucarro Basque Center for Neuroscience, Leioa, Spain

PS2-80

Astrocytic GLUT1 ablation improves systemic glucose metabolism and promotes cognition

Mr. Carlos G. Ardanaz^{1,3}, Prof. María J. Ramírez^{1,3}, Dr. Cristian Smerdou^{2,3}, Dr. Maite Solas^{1,3}

¹University of Navarra, Pamplona, Spain, ²Center for Applied Medical Research (CIMA), Pamplona, Spain, ³IdiSNA (Navarra Institute for Health Research), Pamplona, Spain

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 Barreda², Dr. Ángel Tova^{1,2}, Mr. Daniel Garrigos^{1,2}, Dr. Marta Martínez-Morga^{1,2}, Prof. Bruno Ribeiro Do Couto³, Prof. José Luis Ferrán^{1,2}

¹Faculty of Medicine, University of Murcia, Murcia, Spain, ²Institute of Biomedical Research of Murcia – IMIB, Virgen de la Arrixaca University Hospital, Murcia, Spain, ³Faculty of Psychology, University of Murcia, Murcia, Spain

PS2-82

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

Mr. Daniel Pinto-Benito^{1,2}, Ms. Carmen Paradelo-Leal¹, Dr. Angeles Arévalo^{1,2}

¹Instituto Cajal (CSIC), Madrid, Spain, ²CIBERFES, Spain



PS2-83

A novel modular toolbox for precise neuronal epigenome editing

Ms. Marta Alaiz-Noya¹, Dr. Beatriz Del Blanco¹, Ms. Carina Vanesa Racovac¹, Dr. Angel Barco¹

¹Instituto de Neurociencias, San Juan De Alicante, Spain

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 Luzuriaga¹, J Iturri³, Beatriz Pardo-Rodriguez¹, J.L. Toca-Herrera³, Gaskon Ibarretxe¹, Fernando Unda¹, JR Sarasua^{1,4}, Aitor Larrañaga^{1,4}, **Jose R. Pineda^{1,2}**

¹University of the Basque Country (UPV/EHU), Leioa, Spain, ²Achucarro Basque Center for Neuroscience Fundazioa, Leioa, Spain, ³BOKU University of Natural Resources and Life Sciences, Vienna, Austria, ⁴Polimerbio S.L., Donostia-San Sebastian, Spain

PS2-85

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

Maria Martín-Esteban¹, David Martín-Oliva², Juan Francisco López-Giménez¹

¹Instituto de Parasitología y Biomedicina "López-Neyra", CSIC, Granada, Spain, ²Universidad de Granada, Granada, Spain

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 Crevillén¹, Mr. Rodrigo Martín¹, Dr. Juan Camilo Moreno¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Universidad Autónoma de Madrid (UAM), Madrid, Spain, ³Universidad San Pablo CEU, Madrid, Spain

PS2-87

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

Dr. Cristina Nombela¹, Prof. Elena Giné², Dr. Emilio Fernández-Egea³, Dr. Yulia Worbe⁴, **Dr. Fernando de Castro⁵**, Prof. Dr. Juan del Río-Hortega Bereciartu⁶

¹Universidad Autónoma de Madrid, Madrid, Spain, ²Universidad Complutense de Madrid, Madrid, Spain, ³University of Cambridge, Cambridge, United Kingdom, ⁴Sorbonne Université, Paris, France, ⁵Instituto Cajal-CSIC, Madrid, Spain, ⁶Universidad de Valladolid, Valladolid, Spain



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}

¹Universitat de Barcelona, Barcelona, Spain, ²Institut de Neurociències, Barcelona, Spain, ³Institut de Recerca Biomèdica (IRB), Barcelona, Spain, ⁴Barcelona Institute of Science and Technology (BIST), Barcelona, Spain, ⁵Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain, ⁶Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Barcelona, Spain, ⁷IDIBAPS-Institut d'Investigacions Biomèdiques August Pi i Sunyer, Barcelona, Barcelona, Spain

PS2-89

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

Ms. Marina Herrero-Lorenzo¹, PhD Ana Gámez-Valero¹, PhD Georgia Escaramís^{1,2}, PhD Rocío Pérez-González^{3,4,5}, MD Jesús Pérez^{3,4,5}, MD Jaime Kulisevsky^{3,4,5}, PhD Eulàlia Martí^{1,2}

¹Department of Biomedicine, Faculty of Medicine, Institute of Neurosciences, University of Barcelona, Barcelona, Spain, ²Centro de Investigación Biomédica en Red de Epidemiología y Salud Pública (CIBERESP), Ministerio de Ciencia Innovación y Universidades, Madrid, Spain, ³Movement Disorders Unit, Neurology Department, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, ⁴Biomedical Research Institute (IIB-Sant Pau), Barcelona, Spain, ⁵Centro de Investigación en Red-Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain

**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 Segura¹, Dr. Neus Garcia¹, Mr. Pablo Hernández¹, Dr. Maria A. Lanuza¹, Dr. Marta Tomàs¹, Mr. Víctor Cilleros-Mañé¹, Ms. Laia Just-Borràs¹, Ms. Maria Duran-Vigara¹, Ms. Aleksandra Polishchuk¹, Dr. Josep Tomàs¹

¹Universitat Rovira I Virgili, Reus, Spain

PS3-02

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

Dr. Marta Martínez¹, Angel Toval¹, Yevheniy Kutsenko¹, Dr. Antonia Alonso¹, Daniel Garrigós¹, Alberto Barreda¹, Bruno Ribeiro Do Couto¹, Ferrán Jose Luis¹

¹Murcia University, Murcia, Spain

PS3-03

Development of Otp and Sim1 cells in the chicken extended amygdala

Mr. Alek Metwalli^{1,2}, Ms Alessandra Pross^{1,2}, Dr Ester Desfilis^{1,2}, Dr Antonio Abellán^{1,2}, Professor Loreta Medina^{1,2}

¹Lleida's Institute For Biomedical Research-Dr.Piñarré Foundation (IRBLleida), Lleida, Spain, ²University of Lleida, , Spain

PS3-04

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

Ms. Isabel Mateos-White¹, Mr. Jaime Fabra-Beser¹, Mr. David de Agustín-Durán¹, Dra. Isabel Fariñas¹, Dra. Cristina Gil-Sanz¹

¹BIOTECMED Institute, Universidad de Valencia, Burjassot, España

PS3-05

Conserved cell types in the early embryonic brain across vertebrates

Mr. Rodrigo Senovilla-Ganzo¹, Mrs. Eneritz Rueda-Alaña¹, Dr. Fernando García-Moreno^{1,2}

¹Achucarro Basque Center for Neuroscience, Leioa, Spain, ²IKERBASQUE Foundation, Bilbao, Spain

PS3-06

Unravelling the Neural Cell Progeny of Single Subpallial Progenitor Cells

Ms. Rebeca Sánchez-González¹, Dr Laura López-Mascaraque¹

¹Cajal Insitutute, Madrid, Spain



PS3-07

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

Ms. Irene Huerga-Gómez¹, Dr. Guillermina López-Bendito¹

¹Instituto De Neurociencias De Alicante, Alicante, Spain

PS3-08

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

Mr. Jaime Fabra-Beser¹, Dr. Jessica Alves Medeiros de Araujo^{2,3}, Dr. Diego Marques-Coelho^{3,4}, Dr. Loyal A Goff², Dr. Marcos R Costa^{3,5}, Dr. Ulrich Müller², Dr. Cristina Gil-Sanz¹

¹BIOTECMED Institute, Universidad de Valencia, Burjassot, Spain, ²The Solomon H. Snyder Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, USA, ³Brain Institute, Federal University of Rio Grande do Norte, Natal, Brazil, ⁴Bioinformatics Multidisciplinary Environment, IMD, Federal University of Rio Grande do Norte, Natal, Brazil, ⁵Univ Lille, Inserm, CHU Lille, Institut Pasteur de Lille, Lille, France

PS3-09

Lineage Cell-Potential of Single Neural Progenitor Cells

Ana Cristina Ojalvo-Sanz^{1,2}, Rebeca Sánchez-González¹, Laura López-Mascaraque¹

¹Cajal Institute-CSIC, Madrid, Spain, ²PhD Program in Neuroscience, Autonoma de Madrid University, Madrid, Spain

PS3-10

Microglia gradually acquire their mature phenotype in the developing hippocampus

Ms. Marta Pereira-Iglesias¹, Ms. Alice Louail¹, Ms. Sol Beccari¹, Dr. Jorge Valero³, Dr. Amanda Sierra^{1,2,4}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of the Basque Country UPV/EHU, Leioa, Spain, ³Institute of Neuroscience of Castilla y León – INCyL, University of Salamanca, Salamanca, Spain, ⁴Ikerbasque Foundation, Bilbao, Spain

PS3-11

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

Ms. Irene Varela Martínez¹, Dr. Linnea Weiss¹, Dr. Marta Nieto López¹

¹Centro Nacional De Biotecnología (CNB-CSIC), Madrid, Spain



PS3-12

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

Ms. Ana Campos-Ríos¹, Ms. Diana Rodríguez^{2,3}, Dr. Lola Rueda-Ruzafa¹, Dr. Salvador Herrera-Pérez¹, Dra Patricia Monteiro^{2,3}, Dr. J.A. Lamas¹

¹CINBIO, University of Vigo, Vigo, Spain, ²Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, , Portugal, ³ICVS/3B's-PT Government Associate Laboratory, Braga/Guimarães, Portugal

PS3-13

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

Dr. Leyre Merino-Galan^{1,2}, **Dr. Marta Zamarbide^{1,3}**, Arantazu Belloso-Igureategui¹, Dr. Belén Gago⁴, Dr. Dani Dumitriu⁵, Dr. Ana Quiroga-Varela^{1,3,6}, Dr. María Cruz Rodríguez-Oroz^{1,3,7}

¹CIMA-Universidad De Navarra, Pamplona, Spain, ²University of the Basque Country (UPV/EHU), Leioa, Spain, ³Navarra Institute for Health Research (IdiSNA), Pamplona, Spain, ⁴Instituto de Investigación Biomédica de Málaga, Universidad de Málaga, Málaga, Spain, ⁵New York State Psychiatric Institute, Columbia University, New York, USA, ⁶Girona Biomedical Research Institute (IDIBGI), Salt, Spain, ⁷Clínica Universidad de Navarra (CUN), Pamplona, Spain

PS3-14

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

Ms. Rocío Alfaro Ruiz¹, Ms. Carolina Aguado¹, Alejandro Martín-Belmonte¹, Félix Hernández², Ana Esther Moreno-Martínez¹, Jesús Avila², Yugo Fukazawa, Rafael Luján¹

¹Facultad de Medicina. Instituto de Investigación en Discapacidades Neurológicas, Universidad de Castilla-La Mancha, Albacete, Spain, ²Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, Spain, ³Division of Brain Structure and Function, Faculty of Medical Science, University of Fukui, Fukui, Japan

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 Martínez¹, Alejandro Martín-Belmonte¹, Carolina Aguado¹, Rocío Alfaro-Ruiz¹, Jose Luis Albasanz², Mairena Martín², Yugo Fukazawa³, Rafael Luján¹

¹Facultad de Medicina. Instituto de Discapacidades Neurológicas, Universidad de Castilla-La Mancha., Albacete, Spain, ²Department of Inorganic, Organic and Biochemistry, Faculty of Chemical and Technological Sciences, Universidad de Castilla-La Mancha, School of Medicine of Ciudad Real, Regional Center of Biomedical Research (CRIB), Ciudad Real, Spain, ³Division of Brain Structure and Function, Faculty of Medical Science, University of Fukui, Fukui, Japan



PS3-16

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

Ms. M. T. Romero-Barragan¹, Prof. J. M. Delgado-Garcia¹, Prof. A. Gruart i Masso¹

¹Division of Neurosciences, Pablo de Olavide University, Sevilla, Spain

PS3-17

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

Aida de la Cruz^{1,2}, María Gamarra^{1,2}, Jimena Baleriola^{1,2,3}

¹Achucarro Basque Center for Neuroscience, Leioa, Spain, ²University of the Basque Country (UPV/EHU), Leioa, Spain,

³IKERBASQUE Basque Foundation for Science, Bilbao, Spain

PS3-18

Contribution of astrocyte extracellular vesicles to local translation in neurons

María Gamarra^{1,2}, Esperanza González³, Mikel Azkargorta³, Juan Manuel Falcón^{3,4}, Félix Elortza³, Jimena Baleriola^{1,2,4}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²Universidad del País Vasco, UPV/EHU, Leioa, Spain,

³CIBioGUNE, Derio, Spain, ⁴IKERBASQUE, Bilbao, Spain

PS3-19

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

Mr. Mateo Pazo González^{1,2}, Ms. Celia Ferrández Alamillos¹, Mr. Santiago Milla Navarro¹, Dr. Isabel Ortuño Lizarán³, Dr. Nicolás Cuenca Navarro³, Dr. Pedro de la Villa Polo¹

¹University of Alcalá, Alcalá de Henares, Spain, ²Centro de Investigaciones Biológicas Margarita Salas - CSIC, Madrid, Spain,

³University of Alicante, Alicante, Spain

PS3-20

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

Mr. Victor Cilleros-Mañé¹, Ms. Laia Just-Borràs¹, Ms. Aleksandra Polishchuk¹, Ms. Maria Durán¹, Ms. Marta Balanyà¹, Dr. Marta Tomàs¹, Dr. Neus Garcia¹, Prof. Josep Tomàs¹, Dr. Maria Angel Lanuza¹

¹Universitat Rovira i Virgili. Facultat de Medicina i Ciències de la Salut. Unitat d'Histologia i Neurobiologia (UHNEURO), Carrer Sant Llorenç 21. Reus (43201), Spain



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-Rodríguez¹**, Mr. Guillermo Sánchez-Garrido Campos¹, PhD Isabel Cordones¹, PhD Javier Márquez-Ruiz¹¹Pablo De Olavide University, Sevilla, Spain

PS3-22

Effect of Sei and Fin whale Müller glia in the survival and neurite growth of RGCs in vitro.**Dr. Xandra Pereiro¹**, Dr. Noelia Ruzafa¹, Msc. Sandra Beriain¹, Prof. Elena Vecino¹¹University of Basque Country, Leioa, Spain

PS3-23

Chemogenetic stimulation of mature oligodendrocytes drives myelin-axon metabolic coupling and prevents axonal damagePhD Student Ana Palma¹, Professor of Anatomy Alberto Pérez-Samartín¹, Full professor of Anatomy Carlos Matute¹, **Dr. Maria Domercq¹**¹Achucarro Basque Center for Neurosciences, Ciberneuro and Departamento de Neurociencias, Universidad del País Vasco-UPV/EHU, E-48940 Leioa, Spain

PS3-24

Dopamine receptors in oligodendroglia**Dr. Carlos Luis Palfo¹**, Carolina Rincón^{1,2}, Manuel Marfil^{1,3}, Rocío Rojas^{1,3}, Dr. Jorge Pascual-Guerra¹¹Hospital Universitario Ramón Y Cajal - IRYCIS, Madrid, Spain, ²Universidad Politécnica de Madrid, Madrid, Spain,³Universidad Complutense de Madrid, Madrid, Spain

PS3-25

Astrocytic Network Heterogeneity in the Nucleus Accumbens**Ms. Irene Serra¹**, Mr. Julio Esparza¹, Ms. Cristina Martín-Monteagudo¹, Dr. Marta Navarrete¹¹Cajal Institute (CSIC), Madrid, Spain

PS3-26

MONITORING OF ABERRANT NEUROGENESIS IN HIPPOCAMPUS DURING IN VITRO EPILEPTOGENESIS**Ms. Ane Rodríguez¹**, Dr. Juan Manuel Encinas^{1,2,3}, Dr. Jan Tønnesen^{1,2}



¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²Neuroscience department, University of the Basque Country (UPV-EHU), Leioa, Spain, ³Ikerbasque - Basque Foundation for Science, Bilbao, Spain

PS3-27

RNA localisation and local translation in microglial peripheral processes

Maite Blanco^{1,2}, Josune Imaz¹, Jimena Baleriola^{1,2,3}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of Basque Country (UPV), Leioa, Spain, ³IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

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-Cervera¹, Ms. Paula Martín-Climent¹, Ms. Raquel Murcia-Ramón¹, Dr. Eduardo Domínguez-Sala¹, Dr. Diego Echevarría¹, Prof. Salvador Martínez¹, Prof. Emilio Geijo-Barrientos¹

¹Instituto de Neurociencias de Alicante (UMH-CSIC), San Juan de Alicante, Spain

PS3-29

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

Ms. Anna Teruel-Sanchis^{1,2}, Mr. Manuel Esteban Vila-Martin^{1,2}, Mr. Esteban Merino¹, Ms. María Villafranca-Faus¹, Mr. Daniel Esteve¹, Mr. Sergio Martínez-Bellver¹, Ms. Ana Cervera-Ferri¹, Ms. Joana Martínez-Ricós¹, Ms. Ana Lloret¹, Mr. Vicent Teruel-Martí¹, Mr. Enrique Lanuza^{1,2}

¹Universitat De València, Valencia, Spain, ²Universitat de València, Burjassot, Spain

PS3-30

LACK OF AVERSIVE BEHAVIOR IN FEMALE MICE EXPOSED TO PREDATOR ODORS

Mr. Mario Orts Richart¹, Dr. Adoración HERNÁNDEZ-MARTÍNEZ¹, **Professor Enrique LANUZA¹**, Ms. Camila SAVARELLI¹

¹Universidad De Valencia, Burjassot, Spain

PS3-31

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

Ms. Maria Villafranca-Faus¹, Mr. Manuel Esteban Vila-Martin¹, Ms. Anna Teruel-Sanchis¹, Mr. Esteban Merino¹, Mr. Daniel Esteve^{1,2}, Ms. Alba Ramón-Lainez¹, Dr. Sergio Martínez-Bellver¹, Dra. Ana Cervera-Ferri¹, Dra. Joana Martínez-Ricós¹, Dra. Ana Lloret^{1,2}, Dr. Vicent Teruel-Martí¹, Dr. Enrique Lanuza¹

¹University of Valencia, Valencia, Spain, ²Health Research Institute INCLIVA, Valencia, Spain



PS3-32

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

Mr. Enrique Gonzalo-Martín¹, Dr. María García-Amado¹, Dr. Francisco Clascá¹, Dr. Lucía Prensa¹

¹Autonomous University of Madrid, Madrid, Spain

PS3-33

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

Ms. Cristina Delgado-Sallent^{1,3}, Dr Thomas Gener¹, Mr Pau Nebot¹, Ms Amanda Blair Fath², Dr. Maria Victòria Puig¹

¹Institut Hospital del Mar d'Investigacions Mèdiques, Barcelona, Spain, ²Massachusetts Institute of Technology, Cambridge, USA, ³Universitat Pompeu Fabra, Barcelona, Spain

PS3-34

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

Pablo J Martín-Correa¹, Dr. Javier Rodríguez-Moreno¹, Dr. Astrid Rollenhagen², Dr. Joachim HR Lübke², Dr. Francisco Clasca¹

¹Autonoma de Madrid University (UAM), Madrid, Spain, ²Institute of Neuroscience and Medicine INM-10, Research Centre Jülich GmbH, Jülich, Germany

PS3-35

SPATIAL PERIODIC FIRING IN THE SUBICULUM OF MICE

PhD Candidate Pablo Abad-Pérez^{1,2}, Dr Luís Martínez-Otero², Dr Victor Borrell², **Dr. Jorge R Brotons-mas^{1,2}**

¹Universidad Cardenal Herrera, Elche, Spain, ²Instituto de Neurociencias, UMH-CISC, San Juan de Alicante, Spain

PS3-37

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

Mr. Pablo Calvé^{1,2}, Mr. Thomas Gener², Mr. Pau Nebot², Mr. Sami Kummer¹, Mrs. Elena Martín^{1,2}, Mrs. M^a Victoria Puig², Mr. Rafael Maldonado^{1,2}

¹Laboratory of Neuropsychopharmacology-Neurophar, Department of Experimental and Health Sciences, Universitat Pompeu Fabra (UPF), 08003 Barcelona, Spain, ²Hospital del Mar Medical Research Institute, 08003 Barcelona, Spain



PS3-38

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

Ms. Melanie Tschiersch¹, Dr. João Barbosa², Mr. Akash Umakantha³, Prof. Matthew A. Smith³, Dr. Albert Compte¹

¹IDIBAPS, Barcelona, Spain, ²Ecole Normale Supérieure, Paris, France, ³Carnegie Mellon University, Pittsburgh, USA

PS3-39

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

Prof. Miguel Maravall¹, Dr. Malamati Bitzidou^{1,2}, Dr. Michael Bale^{1,3}, Dr. Elena Giusto^{1,4}, Mr. Paul Kinghorn¹

¹University of Sussex, Brighton, United Kingdom, ²Francis Crick Institute, London, United Kingdom, ³Scientifica Ltd., Uckfield, United Kingdom, ⁴Ospedale San Camillo IRCCS SRL, Venezia Lido, Italy

PS3-40

Neural probes for multimodal interrogation of brain lamination

Dr. María Teresa Jurado Parras¹, Dr. Elena Cid, Dr. Filippo Pisano², Dr. Maria Samuela Andriani², Dr. Antonio Balena², Dr. Marco Pisanello², Dr. Massimo De Vittorio^{2,3}, Dr. Ferruccio Pisanello², Dr. Liset M de la Prida¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Istituto Italiano di Tecnologia - Center for Biomolecular Nanotechnologies, Arnesano(Le), Italy, ³Università del Salento, Lecce, Italy

PS3-41

Cognitive effects of physical exercise are inherited by the second generation

Ms. Patricia Tezanos¹, Ms. Manuela de las Casas², Dra. Kerry McGreevy¹, Dra. Ángela Fontán-Lozano³, Dr. José Luis Trejo¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Instituto de Neurociencias de Alicante, Alicante, Spain, ³Universidad de Sevilla, Sevilla, Spain

PS3-42

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

Mr. Pablo Muela¹, Ms. Patricia Tezanos¹, Ms. Elisa Cintado¹, Dr. José Luis Trejo¹

¹Instituto Cajal, CSIC, Madrid, Spain

PS3-43

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

Ms. Patricia Tezanos¹, Ms. Elisa Cintado¹, Mr Pablo Muela¹, Dr. José Luis Trejo¹

¹Instituto Cajal - Csic, Madrid, Spain



PS3-44

Physiology of hormetic effects of exercise on cognitive enhancement: miRNA and microbiota involvement**Ms. Elisa Cintado¹**, Ms. Patricia Tezanos¹, Mr. Pablo Muela¹, Ms. Marta Montero¹, Dr. José Luis Trejo¹¹*Instituto Cajal (CSIC), Madrid, Spain*

PS3-45

Conditional deletion of the Cntnap2 gene in mice: a phenotypic study**Ms. Teresa Sierra-Arregui¹**, Ander Txurruka-Bengoa¹, Marta Fernández¹, Javier Llorente¹, Olga Peñagarikano^{1,2}¹*University Of Basque Country (upv/ehu), Leioa, Spain*, ²*Centro de Investigación Biomedica en Red Salud Mental, Spain*

PS3-46

Cerebellar Interpositus Nucleus Activities Underlying Classical Eyeblink Conditioning in Rabbits**Dra. Gloria G Parras¹**, Dr. Jose María Delgado-García¹, Dra. Agnés Gruart¹, Dra. Rocío Leal-Campanario¹¹*University Pablo De Olavide, Seville, Spain*

PS3-47

Characteristics of the spontaneous blinking depending on the attentional conditions and the sensory nerve activity from the ocular surface**Mr. Miguel Delicado Miralles¹**, Mr. Enrique Velasco^{1,2}, Dr. Ariadna Díaz Tahoces^{1,3}, Dr. María del Carmen Acosta Boj^{1,2}, Dr. Juana Gallar^{1,2,3}¹*Instituto De Neurociencias De Alicante (UMH-CSIC), San Juan de Alicante, España*, ²*The European University of Brain and Technology-NeurotechEU,, San Juan de Alicante, España*, ³*Instituto de Investigación Sanitaria y Biomédica de Alicante, San Juan de Alicante, España*

PS3-48

Sensory independent history choice biases in auditory categorization tasks in rats**Dr. Daniel Duque¹**, Dr. Jaime de la Rocha¹¹*Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain*

PS3-49

Coaching and Human Brain Creativity Mechanisms**Mr. Gorka Bartolomé Anguita¹**, Dr. Cristina Torrelles Nadal¹, Dr. Eduardo Blanco Calvo²¹*Universitat de Lleida, Lleida, Spain*, ²*Universidad de Málaga, Málaga, Spain*



PS3-50

MicroRNAs signatures for vulnerability to food addiction.

Alejandra García-Blanco¹, Laura Domingo-Rodríguez¹, Judit Cabana-Domínguez^{2,3,4,5}, Noèlia Fernàndez-Castillo^{2,3,4,5}, Laura Pineda-Cirera^{2,3,4,5}, Bru Cormand^{2,3,4,5}, Elena Martín-García¹, Rafael Maldonado^{1,6}

¹Universitat Pompeu Fabra (UPF), Barcelona, Spain, ²Universitat de Barcelona (UB), Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER), Barcelona, Spain, ⁴Institut de Biomedicina de la Universitat de Barcelona (IBUB), Barcelona, Spain, ⁵Institut de Recerca Sant Joan de Déu (IR-SJD), Barcelona, Spain, ⁶Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain

PS3-51

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

Dr. Raudel Sánchez-campusano^{1,2}, Dr. José María Delgado-García¹, Dr. Iván Fernández-Lamo¹, Dr. Steven L. Bressler², Dr. Agnès Gruart¹

¹Division of Neurosciences, Universidad Pablo de Olavide, Seville-41013, Spain, ²Center for Complex Systems and Brain Sciences, Florida Atlantic University, FL-33431, USA

PS3-52

The steroid sulfatase inhibitor STX64 improves age-associated cognitive deficiencies

Mr. Juan Antonio Fernández Cabrera¹, Dr. Ángel Manuel Carrión Rodríguez¹

¹Pablo De Olavide University, Seville, Spain

PS3-53

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

Mr. Pan Ye¹, Mr. Alex Roxin¹

¹Centre De Recerca Matemàtica, Barcelona, Spain

PS3-54

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

Mr. Enrique Pérez-Martínez¹, Dr. María del Mar Reus-García¹, Professor José María Delgado-García¹, Dr. Raudel Sánchez-Campusano¹

¹Division of Neurosciences, Universidad Pablo de Olavide, 41013-Seville, Spain



PS3-55

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

Mr. Nicolás Pollán¹, Dr Bijan Pesaran³, Dr Albert Compte², Dr Klaus Wimmer¹

¹Centre De Recerca Matemàtica, Barcelona, Spain, ² Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Center for Neural Science, New York Univ., New York, USA

PS3-56

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

Mr. David Bestue¹, Dr. Rita Almeida², Dr. Torkel Klingberg³, Dr. Jacqueline Gottlieb⁴, Dr. Albert Compte¹

¹IDIBAPS, Barcelona, Spain, ²Stockholm University, Stockholm, Sweden, ³Karolinska Institutet, Stockholm, Sweden, ⁴Columbia University, New York, USA

PS3-57

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

Mr. David Pérez-Boyer^{1,2,3}, Laura Pérez-Revuelta^{1,2,3}, Dra. Ana de la Mata Sampedro^{4,5}, Dr. Jesús María García Briñón^{1,2,3}, Dr. David Díaz López^{1,2,3}, Dr. Eduardo Weruaga Prieto^{1,2,3}

¹University of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain, ⁴University of Valladolid, Valladolid, Spain, ⁵IOBA, Applied Ophthalmology Institute, Valladolid, Spain

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.

Mr. Xavier Sánchez Sáez¹, Dr. Isabel Ortuño-Lizarán¹, Dr. Pedro Lax¹, Dr. Nicolás Cuenca¹

¹University Of Alicante, Alicante, Spain

PS3-59

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

Mr. Vicente Miralles Liborio¹, Mr. Sergio Botella Esteve¹, Mr. Enrique Velasco Serna^{1,2}, Mr. Miguel Delicado Miralles¹, Dr. Maria del Carmen Acosta^{1,2}, Dr. Juana Gallar^{1,2,3}, Dr. Juan Aguilar⁴

¹Instituto de Neurociencias, Universidad Miguel Hernández-CSIC, San Juan de Alicante, Spain, ²The European University of Brain and Technology-Neurotech, San Juan de Alicante, Spain, ³Instituto de Investigación Sanitaria y Biomedica de Alicante, San Juan de Alicante, Spain, ⁴Grupo de Neurofisiología Experimental. Unidad de Investigación, Hospital Nacional de Paraplégicos (SESCAM), Toledo, Spain



PS3-60

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

Ms. Elena Martínez¹, Dr. Anabel Forte¹, Dr. Enrique Lanuza¹, Dr. Monica Santos², Dr. Carmen Agustín¹

¹University Of Valencia, Valencia, Spain, ²Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal

PS3-61

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

Dr. Dasiel Oscar Borroto-escuela^{1,2}, **Dr. Manuel Narváez²**, Dr. Wilber Romero-Fernández³, Mr. Luca Pinton¹, Dr. Sarah Beggiato⁴, Dr. Luca Ferraro⁴, Mr. Ramon Fores-Pons², Mr. Mariana Pita-Rodríguez², Mr. Alexander Lopez-Salas¹, Dr. Malgorzata Filip⁵, Dr. Kjell Fuxe¹

¹Department of Neuroscience. Karolinska Institutet., Stockholm, Sweden, ²Instituto de Investigación Biomédica de Málaga. Universidad de Malaga, Malaga, Spain, ³Department of Cell and Molecular Biology, Uppsala University, Uppsala, Sweden, ⁴Department of Life Sciences and Biotechnology (SVEB), University of Ferrara, Ferrara, Italy, ⁵Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland

PS3-62

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

Dr Alba Navarro-Romero¹, **Marta Montpeyo¹**, Irene Fernandez-Gonzalez¹, Jordi Riera¹, Dr David Montpeyo², Eddie Pradas^{1,2}, Dr Fernando Novio³, Dr Julia Lorenzo², Dr Marta Martinez-Vicente¹

¹Institut De Recerca De La Vall D'hebron (VHIR), Barcelona, Spain, ²Institut de Biotecnologia i de Biomedicina (IBB), Autonomous University of Barcelona, Bellaterra, Spain, ³Catalan Institute of Nanoscience and Nanotechnology (ICN2)-CSIC, Barcelona, Spain

PS3-63

P53 DEPLETION PROMOTES NEOVASCULARIZATION AND BRAIN REPAIR AFTER INTRACEREBRAL HEMORRHAGE

Dr. Cristina Rodríguez^{1,2}, Mónica Carabias-Carrasco^{1,2}, Mónica Resch-Beusher^{1,2}, Estefanía Prieto², Dr. Angeles Almeida^{1,2}

¹Institute of Biomedical Research of Salamanca (IBSAL), University Hospital of Salamanca, University of Salamanca, CSIC, Salamanca, Spain, ²Institute of Functional Biology and Genomics (IBFG), University of Salamanca-CSIC, Salamanca, Spain



PS3-64

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

Ms. Sonsoles Barriola^{1,2}, Ms. Lina María Delgado-García^{1,3}, Dr. Nieves Salvador¹, Ms. Eva López Martínez¹, Ms. Ana Cristina Ojalvo-Sanz¹, Ms. Rebeca Sánchez-González¹, Dr. Laura López-Mascaraque¹

¹Instituto Cajal, Madrid, Spain, ²Autonoma de Madrid University, Madrid, Spain, ³Universidade Federal de São Paulo, São Paulo, Brazil

PS3-65

Impact of white adipose tissue in AD pathology

Miriam Bettinetti-Lugue¹, Juana Andreo-Lopez¹, Francisco Cantero-Molina¹, Laura Trujillo-Estrada¹, Carlos J. Rodriguez-Ortiz², Frank M. LaFerla², Antonia Gutierrez¹, David Baglietto-Vargas^{1,2}

¹University of Malaga/CIBERNED/IBIMA, Malaga, Spain, ²University of California, Irvine, USA

PS3-66

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

Dr. María Sáez¹, Dr. Ettel Keifman², Dr. Gustavo Murer², Dr. Rosario Moratalla³, Dr. Ramón Reig¹

¹Instituto De Neurociencias UMH-CSIC, San Juan de Alicante, Spain, ²Universidad de Buenos Aires, CONICET, Instituto de Fisiología y Biofísica (IFIBIO) Bernardo Houssay, Buenos Aires, Argentina, ³Instituto Cajal CSIC, Madrid, Spain

PS3-67

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

Dr. Belén Gago Calderón¹, Dr. M. Ángeles Real Avilés¹, Marina Ponce Velasco¹, Dr. Alicia Rivera Ramírez¹

¹Universidad De Málaga, Málaga, Spain

PS3-68

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

Marina Ponce Velasco¹, Dr. Alicia Rivera Ramírez¹, Dr. Belén Gago Calderón¹, Dr. M. Ángeles Real Avilés¹

¹Universidad De Málaga, Málaga, Spain

PS3-69

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

Mr. Víctor Valcárcel Hernández¹, Ms. Marina Guillén Yunta¹, Ms. Inés López de Toledo Soler¹, Dr. Soledad Báñez López^{1,2}, Dr. Ana Guadaño Ferraz¹



¹Instituto de Investigaciones Biomédicas "Alberto Sols" CSIC-UAM, Madrid, Spain, ²University of Bristol, Translational Health Sciences, Bristol, United Kingdom

PS3-70

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

Anna Sirés^{1,2,3}, Mireia Turch-Anguera^{1,3,4}, Dr. Patricia Bogdanov^{1,4}, Dr. Joel Sampedro^{1,4}, Hugo Ramos^{1,4}, Dr. Agustín Ruiz², Dr. Jianxin Huo⁶, Dr. Shengli Xu⁶, Dr. Kong-Peng Lam⁶, Dr. Joaquín López-Soriano^{1,2,3}, Dr. María José Pérez-García^{1,2}, Dr. Cristina Hernández^{1,4}, Dr. Rafael Simó^{1,4}, Dr. Montse Solé^{1,2,3}, Dr. Joan Xavier Comella^{1,2,3}

¹Vall d'Hebron Institute of Research (VHIR), Barcelona, Spain, ²Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ³Universitat Autònoma de Barcelona (UAB), Spain, ⁴Centro de Investigación Biomédica en Red de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM), Spain, ⁵Fundació ACE, Institut Català de Neurociències Aplicades, Universitat Internacional de Catalunya (UIC), Spain, ⁶Singapore Immunology Network (SiGN), A*STAR (Agency for Science, Technology and Research), Singapore, Singapore

PS3-71

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

Dr. Dulce María Arzate Vazquez¹, Dr. Sergio Gascón^{1,2}

¹Instituto Cajal-CSIC, Madrid, Spain, ²Ludwig Maximilians University at the Biomedical Center, Planegg/Martinsried, Germany

PS3-72

Bile acids reduce glycolysis in proinflammatory macrophages

Dr. Lorenzo Romero Ramírez¹, Ms Concepción García Rama¹, Ms Siyu Wu^{1,2}, Prof. Jörg Mey^{1,2}

¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain, ²Maastricht University, Maastricht, Netherlands

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-Gallego², Dr Carlos Bueno-López², Dr Emilio Geijo-Barrientos², Dr Salvador Martínez-Pérez²

¹Cátedra de Neurociencia Aplicada. Universidad Católica de Murcia (UCAM), Murcia, Spain, ²Instituto de Neurociencias UMH-CSIC, Alicante, Spain

PS3-74

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



PhD Miguel Valencia^{1,2}, PhD Philipp Janz³, PhD Maria Jesús Nicolás^{1,2}, Mrs Adriana Honrubia^{1,2}, PhD Roger Redondo³

¹University of Navarra, CIMA, Pamplona, Spain, ²IdiSNA, Navarra Institute for Health Research, Pamplona, Spain, ³F. Hoffmann-La Roche Ltd, Basel, Switzerland

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-Redolat³, Isabel Fariñas³, Marcos Malumbres⁴, Francisco Zafra^{1,2}, Eva Porlan^{1,2}

¹Departamento de Neuropatología Molecular, Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, Spain; Departamento de Biología Molecular, Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid, Spain., , , ²IdiPAZ, ISCIII, Madrid, Spain., , , ³Departamento de Biología Celular, Biología Funcional y Antropología Física, Universidad de Valencia, Burjassot, Spain; Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), ISCIII, Madrid, Spain; Estructura de Recerca Interdisciplinaria en Biotecnología i Biomedicina (ERI BIOTECMED), Universidad de Valencia, Burjassot, Spain., , , ⁴Grupo de División Celular y Cáncer, Centro Nacional de Investigaciones Oncológicas, Madrid, Spain., ,

PS3-76

New experimental models for the study of Friedreich's Ataxia

Dr. Saúl Herranz-Martín¹, Mrs Marina López-Lorigados¹, Mr Andrés Vicente-Acosta¹, Dr Javier Díaz-Nido¹

¹Universidad Autónoma De Madrid / Centro De Biología Molecular Severo Ochoa, Madrid, Spain

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 Ramírez¹, Mr Johannes de Munther³, Mr Erik Ch. Wolters³, Prof. Boris W. Kramer³, **Prof. Jörg Mey^{1,2}**

¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain, ²Maastricht University, Maastricht, Netherlands, ³Neuroplast BV, Geleen, Netherlands

PS3-78

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

Ms. Coral Torres Querol¹, Dr Lidia Bardia², Dr Sebastien Tosi², Dr Julien Colombelli², Dr Gloria Arqué^{1,3}, Dr Francisco Purroy^{1,3,4}

¹Institut de Recerca Biomèdica de Lleida (IRB Lleida), Lleida, Spain, ²Institut de Recerca Biomèdica de Barcelona (IRB Barcelona), Barcelona Institute for Science and Technology – BIST, Barcelona, Spain, ³Universitat de Lleida, Lleida, Spain, ⁴Hospital Universitari Arnau de Vilanova (HUAUV), Barcelona, Spain



PS3-79

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

Ms. Laura Lázaro-Carot¹, Dra. Anna Lozano-Ureña¹, Mr. Esteban Jiménez-Villalba¹, Mr. Pere Duart¹, Ms. Isabel Mateos-White¹, Dra. Cristina Gil-Sanz¹, Dra. Isabel Fariñas¹, Dra. Martina Kirstein¹, Dra. Sacri R. Ferrón¹

¹BIOTECMED Institute, Universidad De Valencia, Valencia, Spain

PS3-80

An in vivo reprogramming model to study glioblastoma formation

Mr. Esteban Jiménez-Villalba¹, Dr. Anna Lozano-Ureña¹, Ms. Isabel Mateos-White¹, Dr. Manuel Serrano², Dr. Cristina Gil-Sanz¹, Dr. Isabel Fariñas¹, Dr. Sacri R Ferrón¹

¹BIOTECMED Institute, Universidad De Valencia, Burjassot, Spain, ²Institute for Research in Biomedicine, Barcelona Institute of Science and Technology, Barcelona, Spain

PS3-81

Comparing astroglial reactivity in two transgenic mouse models of tauopathy

Dr. Juan Jose Fernandez-Valenzuela¹, Dr. Raquel Sanchez-Varo^{1,2}, **Ms Elba Lopez-Oliva¹**, Dr. Carmen Romero-Molina³, Ms Marina Mejias-Ortega¹, Dr. Elisabeth Sanchez-Mejias¹, Dr. Maria Luisa Vizuete³, Dr. Jose Carlos Davila¹, Dr. Javier Vitorica³, Dr. Antonia Gutierrez¹

¹Faculty of Sciences, University of Malaga/IBIMA/CIBERNED, Malaga, Spain, ²Faculty of Medicine, University of Malaga, Malaga, Spain, ³Faculty of Pharmacy, University of Seville/IBIS/CIBERNED, Seville, Spain

PS3-82

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

Dr. David Díaz López^{1,2,3}, David Pérez-Boyeró^{1,2,3}, Dr. Carmelo Antonio Ávila-Zarza^{1,3}, Dr. José Ramón Alonso Peña^{1,2,3}, Dr. Eduardo Weruaga Prieto^{1,2,3}

¹University of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain

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}**

¹University of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain



PS3-84

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

Ms. Marta Riba^{1,2,3}, Dr. Elisabet Augé^{1,2,3}, Ms. Iraidia Tena¹, Dr. Jaume del Valle^{1,2,3}, Dr. Laura Molina-Porcel^{4,5}, Ms. Teresa Ximelis^{4,5}, Dr. Jordi Vilaplana^{1,2,3}, Dr. Carme Pelegrí^{1,2,3}

¹Facultat de Farmàcia i Ciències de l'Alimentació, Universitat de Barcelona, Barcelona, Spain, ²Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain, ³Centros de Biomedicina en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁴Alzheimer's disease and other cognitive disorders unit. Neurology Service, Hospital Clínic, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Universitat de Barcelona, Barcelona, Spain, ⁵Neurological Tissue Bank of the Biobanc-Hospital Clínic-Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

PS3-85

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

Ms. Marta Riba^{1,2,3}, Dr. Elisabet Augé^{1,2,3}, Ms. Iraidia Tena¹, Dr. Jaume del Valle^{1,2,3}, Dr. Laura Molina-Porcel^{4,5}, Ms. Teresa Ximelis^{4,5}, Dr. Carme Pelegrí^{1,2,3}, Dr. Jordi Vilaplana^{1,2,3}

¹Facultat de Farmàcia i Ciències de l'Alimentació, Universitat de Barcelona, Barcelona, Spain, ²Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain, ³Centros de Biomedicina en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁴Alzheimer's disease and other cognitive disorders unit. Neurology Service, Hospital Clínic, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Universitat de Barcelona, Barcelona, Spain, ⁵Neurological Tissue Bank of the Biobanc-Hospital Clínic-Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

PS3-86

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

Dr. Jaime Pignatelli¹, **M. Estrella Fernandez de Sevilla¹**, Dra. Gema Medina Gomez², Ignacio Torres Aleman³

¹Cajal Institute-csic, Madrid, Spain, ²URJC, Madrid, Spain, ³Achucarro Basque Neuroscience Center, Leioa, Spain

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-Franco¹, Ms. Amelia Diaz-Casares^{1,2,3}, Dr. Marc Stefan Dawid-Milner^{1,2,3}

¹Facultad de Medicina. Universidad De Málaga, Málaga, Spain, ²Unidad de Neurofisiología del Sistema Nervioso Autónomo (CIMES). Universidad de Málaga, Málaga, Spain, ³Instituto de Investigación Biomédica de Málaga (IBIMA), Málaga, Spain



PS3-88

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

Carles Bosch¹, Ana Diaz², Alexandra Pacureanu³, Mirko Höller², Elisabeth Müller⁴, Andreas Schaefer¹

¹The Francis Crick Institute, London, United Kingdom, ²cSAXS beamline, Paul Scherrer Institut, Villigen, Switzerland, ³ID16A beamline, ESRF, Grenoble, France, ⁴Electron Microscopy Facility, Paul Scherrer Institut, , Switzerland

PS3-89

Obtention and characterization of exosomes for non-invasive epilepsy monitoring

Laura Zeballos Fernández^{1,2}, Mario García Hernández¹, Dr. David Sánchez Benito^{1,2}, Jaime Gonçalves Sánchez², Dra. María Dolores Calabria Gallego², Dr. Ricardo Gómez Nieto^{1,2}, Dra. M^a Dolores E. López García^{1,2}

¹Institute of Neuroscience of Castilla y León (INCYL), Salamanca, España, ²Institute for Biomedical Research of Salamanca (IBSAL) , Salamanca, España

PS3-90

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

Mr. Joan Compte Barrón¹, Dr. Marta González-Sepúlveda¹, Mrs. Alba Nicolau Vera¹, Dr. Thais Cuadros Arasa¹, Mr. Jordi Giménez-Romero¹, Mrs. Annabelle Parent¹, Dr. Ariadna Laguna Tuset¹, Dr. Miquel Vila Bover^{1,2,3}

¹Vall d'Hebron Research Institute (VHIR)-Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain, ²Autonomous University of Barcelona , Cerdanyola del Vallès, Barcelona, Spain, Spain, ³Catalan Institution for Research and Advanced Studies (ICREA), Barcelona, Spain

PS3-91

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

Ms. Alba Blasco¹, Ms. Sílvia Gras¹, Dr. Guillem Mòdol-Caballero², Dr. Olga Tarabal¹, Dr. Anna Casanovas¹, Ms. Lidia Piedrafita¹, Dr. Alejandro Barranco³, Dr. Tapas Das⁴, Dr. Sara Hernández¹, Ms. Sara Salvany¹, Ms. Alao Gatiús¹, Dr. Suzette L. Pereira⁴, Prof. Xavier Navarro², Dr. Ricardo Rueda³, Prof. Josep Enric Esquerda¹, Prof. Jordi Calderó¹

¹Universitat de Lleida / IRBLleida, Lleida, Spain, ²Universitat Autònoma de Barcelona / CIBERNED, Bellaterra, Spain, ³Abbott Nutrition / Strategic Research, Granada, Spain, ⁴Abbott Nutrition / Strategic Research, Columbus, USA

PS3-92

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



Dr. Monica Torres-Ruiz¹, Dr. Maria del Carmen González Caballero¹, Dr. Isabel Liste², Ms. Mercedes De Alba González¹, Ms. María Gallego Rodríguez¹, Ms. Carla García López¹, Dr. Ana Isabel Cañas Portilla¹

¹Área de Toxicología Ambiental, Centro Nacional de Sanidad Ambiental (CNSA), Instituto de Salud Carlos III, Majadahonda, Spain, ²Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III, Majadahonda, Spain

PS3-93

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

Dr. Rocio Martínez-Regueiro¹, Dr. Montse Fernández-Prieto², Dr. M.J. Sobrido², Dr Manuel Arias³

¹Universidade de Santiago de Compostela (USC), Santiago de Compostela, Spain, ²Instituto de Investigación Sanitaria de Santiago de Compostela (IDIS), Santiago de Compostela, Spain, ³Servicio Galego de Saúde (SERGAS), Santiago de Compostela, Spain

PS3-94

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

Dr. Elena Solesio-joFRE¹, Prof. Ángela Fernández-Pascual², Mrs. María Hernández-Lorca¹, Dr. Elisabet Rodríguez-Alzueta³, Prof. Luis Carretié¹

¹Facultad de Psicología, Universidad Autónoma De Madrid, Madrid, Spain, ²Escuela Politécnica Superior, Universidad Autónoma de Madrid, Madrid, Spain, ³Center for Health Sciences. SRI International, Menlo Park, United States of America

PS5-71

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

Mr. Alejandro Gallego Ortega¹, Ms. María Norte Muñoz¹, Mr. Juan Antonio Miralles de Imperial Ollero¹, Dr. Francisco Javier Valiente Soriano¹, Prof. Pedro De la Villa², Prof. Manuel Vidal Sanz¹

¹Universidad De Murcia, Murcia, Spain, ²Universidad de Alcalá, Alcalá de Henares, Spain



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

PS4-01

Dispersion and fate of pallial progenitors within the adult forebrain

Edwards Antonio Cabrera¹, Rebeca Sánchez-González^{1,2}, Ana Cristina Ojalvo-Sanz^{1,2}, Sonsoles Barriola^{1,2}, Laura López Mascaraque¹

¹Instituto Cajal, Madrid, Spain, ²PhD Program in Neuroscience, Autonoma de Madrid University, Madrid, Spain

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-Durán¹, Ms. Alba Marín-Garnes¹, Ms. Ana Pérez-Villalba², Ms. Isabel Mateos-White¹, Mr. Jaime Fabra-Beser¹, Dra. Cristina Gil-Sanz¹

¹BIOTECMED Institute, Universidad de Valencia, Burjassot, Spain, ²Laboratory of Animal Behavioural Phenotyping, Facultad de Psicología, Universidad Católica de Valencia, Burjassot, Spain

PS4-03

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

Ms. Iris Juárez-Leal¹, Ms. Estefanía Carretero-Rodríguez², Ms. Francisca Almagro-García¹, Prof. Salvador Martínez¹, Dr. Diego Echevarría¹, Dr. Eduardo Puelles¹

¹Instituto De Neurociencias (UMH-CSIC), Sant Joan d'Alacant, España, ²Universidad Miguel Hernández de Elche, Sant Joan d'Alacant, España

PS4-04

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

Cristina Medina Menéndez¹, Lingling Li¹, María Valdés¹, Rafael López-Sansegundo¹, Inés Colmena¹, Véronique Lefebvre², Aixa V. Morales¹

¹Cajal Institute, Madrid, Spain, ²Children's Hospital of Philadelphia, Philadelphia, USA

PS4-05

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

Ms. Paula Martín-Climent¹, Dr. Abraham Andreu-Cervera¹, Ms. Raquel Murcia-Ramón¹, Dr. Diego Echevarría¹, Prof. Salvador Martínez¹, Prof. Emilio Geijo-Barrientos¹

¹Instituto de Neurociencias de Alicante (UMH-CSIC), San Juan de Alicante, Spain



PS4-06

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

Ms. Ana María Jiménez¹, Dr. Abraham Andreu-Cervera¹, Ms. Francisca Almagro-García¹, Dr. Eduardo Puellas¹, Dr. Diego Echevarría¹, Prof. Emilio Geijo-Barrientos¹, Prof. Salvador Martínez¹

¹Instituto de Neurociencias de Alicante (UMH-CSIC), San Juan de Alicante, Spain

PS4-07

Cerebellar abnormalities in a conditional mouse mutant of the Lis1 gene

Dr. Abraham Andreu-Cervera¹, Ms. Ana María Jiménez¹, Ms. Mar Azorín¹, Ms. Francisca Almagro-García¹, Dr. Eduardo Puellas¹, Dr. Diego Echevarría¹, Prof. Emilio Geijo-Barrientos¹, Prof. Salvador Martínez¹

¹Instituto de Neurociencias de Alicante (UMH-CSIC), San Juan de Alicante, Spain

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-Jiménez^{1,2}, Dr. María Delgado-Esteban^{1,2}, Prof. Juan Pedro Bolaños^{1,2,3}, Dr. Angeles Almeida^{1,2}

¹Institute of Biomedical Research of Salamanca, University Hospital of Salamanca, Salamanca, Spain, ²Institute of Functional Biology and Genomics, University of Salamanca, CSIC, Salamanca, Spain, ³CIBERFES, Instituto de Salud Carlos III, ,

PS4-09

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

Ms. Alicia Alonso-Andres¹, Dr. Oliver Crawley¹, Ms. Ana Isabel Navarro¹, Dr. John F. Wesseling¹, Dr. Isabel Pérez-Otaño¹, Dr. Ramon Reig¹

¹Instituto de Neurociencias CSIC-UMH, Alicante, Spain

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 Galofre^{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}

¹Faculty of Medicine and Health Sciences, University of Barcelona, Barcelona, Spain, ²Creatio-Production and Validation Center of Advanced Therapies, University of Barcelona, Barcelona, Spain, ³Institute of Neurosciences, University of Barcelona, Barcelona, Spain, ⁴August Pi i Sunyer Biomedical Research Institute (IDIBAPS), Barcelona, Spain, ⁵Networked Biomedical Research Centre for Neurodegenerative Disorders (CIBERNED), , Spain, ⁶Centro Nacional de Análisis Genómico (CNAG-CRG) - Centre for Genomic Regulation (CRG), Barcelona, Spain, ⁷Universitat Pompeu Fabra, Barcelona, Spain, ⁸Faculty of Mathematics and Computer Science, University of Barcelona, Barcelona, Spain, ⁹Computer Vision Center, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Spain



PS4-11

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

Ms. Lorena Bragg-Gonzalo¹, Dr. Marta Nieto¹

¹Centro Nacional De Biotecnología, Madrid, Spain

PS4-12

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

Álbal Sánchez-de la Torre^{1,2,3}, Tania Aguado^{1,2,3}, Alba Huerga-Gómez^{1,2,3}, Juan Carlos Chara^{4,5}, Krisztina Monory⁶, Carlos Matute^{4,5}, Beat Lutz⁶, Susana Mato^{4,5}, Manuel Guzman^{1,2,3}, Ismael Galve-Roperh^{1,2,3}, Javier Palazuelos^{1,2,3}

¹Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Madrid, Spain, ²Complutense University, Madrid, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁴University of the Basque Country UPV/EHU, Leioa, Spain, ⁵Achúcarro Basque Center for Neuroscience, Leioa, Spain, ⁶University Medical Center Mainz, Mainz, Germany

PS4-13

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

Ms. Alice Staffa¹, Dr. Juan Carlos Chara Ventura², Dr. Carlos Matute², Dr. Isabel Perez-Otaño¹

¹Instituto de Neurociencias de Alicante, UMH-CSIC, San Juan de Alicante, Spain, ²Achúcarro Basque Center for Neuroscience, UPV, Leioa, Spain

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

Dr. Souhail Diebari¹, Dr. Sara Temprano-Carazo¹, Dr. Irene Sánchez-Rodríguez¹, Mr. Guillermo Iborra-Lázaro¹, Dr. Agnès Gruart², Dr. José M. Delgado-García², Dr. Lydia Jiménez-Díaz¹, Dr. Juan D. Navarro-López¹

¹University of Castilla-La Mancha; NeuroPhysiology and Behavior Laboratory, Ciudad Real, Spain, ²Pablo de Olavide University, Sevilla, Spain

PS4-15

Morphological Characterization of the Whale Retina

Dr. Noelia Ruzafa¹, Dr. Xandra Pereiro¹, Prof. Elena Vecino¹

¹University of Basque Country UPV/EHU, Leioa, Spain



PS4-16

Characterization of Primary and Immortalized Whale Müller Glial Cells

PhD Xandra Pereiro¹, **Ms Sandra Beriain¹**, Ms Lara Rodríguez¹, PhD Noelia Ruzafa¹, Mr David Roiz-Valle², PhD Jose-MP Freije², Prof. Elena Vecino¹

¹University of Basque Country UPV/EHU, Leioa, Spain, ²University Institute of Oncology os Asturias IOUPA, Oviedo, Spain

PS4-17

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

Ms. Yaiza Gramuntell¹, Ms. Patrycja Klimczak¹, Dr. Simona Coviello¹, Mr. Marc Beltran¹, Prof. Juan Nacher^{1,2,3}

¹Institute of Biotechnology and Biomedicine (BIOTECMED), Universitat de València, Valencia, Spain, ²CIBERSAM: Spanish National Network for Research in Mental Health, , Spain, ³Fundación Investigación Hospital Clínico de Valencia, INCLIVA, Valencia, Spain

PS4-18

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

Mr. Sergio Niflerola¹, Dra. Beatriz Del Blanco¹, Dr. Michal Lipinski¹, Dr. Jose Pascual Lopez-Atalaya¹, Dr. Angel Barco¹

¹Instituto de Neurociencias (CSIC-UMH), San Juan de Alicante 03350, Spain

PS4-19

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

Ms. Anna del Ser-Badia¹, Dr. Arnaldo Parra-Damas¹, Dr. Lilian Enríquez-Barreto¹, Mr. José Prius-Mengual², Dr. José Rodríguez-Alvarez¹, Dr. Antonio Rodríguez-Moreno², Dr. Carlos Alberto Saura¹

¹Institut de Neurociències, Centro de Investigación Biomédica en Red Enfermedades Neurodegenerativas (CIBERNED), Universitat Autònoma de Barcelona, Bellaterra, Spain, ²Department of Physiology, Anatomy and Cell Biology, Universidad Pablo de Olavide, Sevilla, Spain

PS4-20

Aging entails motoneuron deafferentation and neuroinflammation in the mouse spinal cord

Ms. Sílvia Gras¹, Ms. Alba Blasco¹, Dr. Guillem Mòdol-Caballero², Dr. Olga Tarabal¹, Dr. Anna Casanovas¹, Ms. Lúcia Piedrafita¹, Dr. Alejandro Barranco³, Dr. Tapas Das⁴, Ms. Sara Salvany¹, Ms. Alaó Gatiús¹, Dr. Suzette L. Pereira⁴, Prof. Xavier Navarro², Dr. Ricardo Rueda³, Prof. Josep Enric Esquerda¹, Prof. Jordi Calderó¹

¹Universitat de Lleida/IRBLleida, Lleida, Spain, ²Universitat Autònoma de Barcelona/CIBERNED, Bellaterra, Spain, ³Abbott Nutrition/Strategic Research, Granada, Spain, ⁴Abbott Nutrition/Strategic Research, Columbus, USA



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

Ms. Alaó Gatiús¹, Mr. Pol García-Segura¹, Dr. Olga Tarabal¹, Ms. Paula Cayuela¹, Dr. Ana Garcerá¹, Dr. Anna Casanovas¹, Ms. Sara Salvany¹, Ms. Sílvia Gras¹, Ms. Alba Blasco¹, Ms. Lúdia Piedrafita¹, Dr. Sara Hernández¹, Dr. Rosa María Soler¹, Prof. Josep Enric Esquerda¹, Prof. Jordi Calderó¹

¹Universitat de Lleida/IRBLleida, Lleida, Spain

PS4-22

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

Noelia Rodríguez-Iglesias^{1,2}, Dr Agnès Nadjar³, Dr Amanda Sierra^{1,2,4}, **Dr. Jorge Valero^{5,6,7}**

¹Achúcarro Basque Center for Neuroscience, Leioa, Spain, ²UPV/EHU, University of the Basque Country, Leioa, Spain,

³University of Bordeaux, Neurocentre Magendie, , France, ⁴Ikerbasque, Basque Foundation for Science, Bilbao, Spain,

⁵INCyl, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ⁶IBSAL, Institute for Biomedical Research of Salamanca, , Spain, ⁷University of Salamanca, Salamanca, Spain

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

Ms. Sara Salvany¹, Dr. Anna Casanovas¹, Ms. Lúdia Piedrafita¹, Ms. Sílvia Gras¹, Ms. Alaó Gatiús¹, Ms. Alba Blasco¹, Dr. Olga Tarabal¹, Dr. Sara Hernández¹, Prof. Jordi Calderó¹, Prof. Josep E. Esquerda¹

¹Universitat de Lleida / IRBLleida, Lleida, Spain

PS4-24

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

Ms. Mireia Turch-Anguera^{1,2}, Dr. Koen M.O. Galenkamp^{1,2,3}, Dr. Elena Coccia^{1,2,3}, Dr. Montse Solé^{1,2,3}, Dr. Cristina Hernández^{1,4}, Dr. Rafael Simó^{1,4}, Prof. Joan X. Comella^{1,2,3}

¹Vall d'Hebron Institut de Recerca, Barcelona, Spain, ²Universitat Autònoma de Barcelona, Bellaterra, Spain, ³CIBERNED-ISCIII, Madrid, Spain, ⁴CIBERDEM-ISCIII, Madrid, Spain



PS4-25

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

Teresa Muro-García^{1,2}, Leire Boveda-Altube^{1,2}, Dr. Juan Manuel Encinas^{1,2,3}

¹Achucarro Basque Center For Neuroscience, Leioa, Bizkaia, Spain, ²Departamento de Neurociencias UPV/EHU, Leioa, Bizkaia, Spain, ³IKERBASQUE, the Basque Foundation for Science, Bilbao, Bizkaia, Spain

PS4-26

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

Ms. Laura De las Heras-García¹, Dr. Olatz Pampliega^{1,2}

¹University Of The Basque Country, Leioa, Spain, ²Achucarro Basque Center for Neuroscience, Leioa, Spain

PS4-27

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

Dr. Santiago López-Begines¹, Ms. Ángela Lavado-Roldán¹, Dr. Fabiola Mavillard Saborido¹, Ms. Fátima Rubio-Pastor¹, Ms. Vera Wiersma², Ms. Wiep Scheper², **Prof. Rafael Fernández-Chacón**¹

¹Instituto de Biomedicina de Sevilla (IBIS/HUVR/CSIC/Universidad de Sevilla), Depto. de Fisiología Médica y Biofísica & CIBERNED, Sevilla, Spain, ²Dept. of Human Genetics, Amsterdam University Medical Centers, Amsterdam, The Netherlands

PS4-28

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

Ms. Cristina Mesa-Cruz¹, Dr. José Luis Nieto-González¹, Prof. Rafael Fernández-Chacón¹

¹Instituto de Biomedicina de Sevilla (IBIS, HUVR/CSIC/Universidad de Sevilla), Depto. de Fisiología Médica y Biofísica & CIBERNED, Sevilla, Spain

PS4-29

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

Ms. Fátima Rubio-Pastor¹, Dr. Santiago López-Begines¹, Prof. Rafael Fernández-Chacón¹

¹Instituto de Biomedicina de Sevilla (IBIS, HUVR/CSIC/Universidad de Sevilla), Depto. de Fisiología Médica y Biofísica & CIBERNED, Sevilla, Spain

PS4-30

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



Ms. Cristina Martín-Monteagudo¹, Mr. Julio Esparza¹, Ms. Irene Serra¹, Dr Nagore Puentes², Dr. Pedro Grandes², Dr Marta Navarrete¹

¹Cajal Institute, Madrid, Spain, ²Achucarro Center, Bilbao, Spain

PS4-31

A critical period for the itch spinal cord neural circuit?

Dr. Augusto Escalante¹, Prof. Dr. Eloísa Herrera¹

¹Instituto de Neurociencias CSIC-UMH, San Juan De Alicante, Spain

PS4-32

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

Prof. Juan Carlos López-Ramos¹, Prof. José María Delgado-García¹

¹Universidad Pablo de Olavide, Sevilla, Spain

PS4-33

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

Ms. Laura Carrillo-Franco¹, Mr. Manuel Victor Lopez-Gonzalez^{1,2,3}, Ms. Marta Gonzalez-Garcia^{1,2,3}, Ms. Amelia Diaz-Casares^{1,2,3}, Dr. Marc Stefan Dawid-Milner^{1,2,3}

¹Facultad De Medicina, Universidad De Malaga, Malaga, Spain, ²Unidad de Neurofisiología del Sistema Nervioso Autónomo (CIMES), Universidad de Malaga, Malaga, Spain, ³Instituto de Investigación Biomédica de Málaga (IBIMA), Malaga, Spain

PS4-34

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

Ms. Isabel Pérez-Santos¹, Dr. Nicola Palomero-Gallagher^{2,3,4}, Dr. Karl Zilles^{2,4,5}, Dr. Carmen Cavada¹

¹Facultad De Medicina, Universidad Autónoma De Madrid, Madrid, Spain, ²Institute of Neuroscience and Medicine (INM-1), Research Centre Jülich, Jülich, Germany, ³Medical Faculty, RWTH Aachen University, Aachen, Germany, ⁴C. & O. Vogt Institute for Brain Research, Heinrich-Heine-University, Düsseldorf, Germany, ⁵JARA-BRAIN, Jülich-Aachen Research Alliance, Jülich, Germany

PS4-35

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

Mr. Mario Gómez-Martínez^{1,2,3}, Mr. Héctor Rincón^{2,3,4}, Dr. Marcelo Gómez-Álvarez^{1,2,3}, Dr. Ricardo Gómez-Nieto^{1,2,3}, Prof. Enrique Saldaña^{1,2,3}



¹University Of Salamanca, Salamanca, Spain, ²Neuroscience institute of Castilla y León (INCyL), Salamanca, Spain, ³Institute of Biomedical Research of Salamanca (IBSAL), Salamanca, Spain, ⁴School of Health Sciences, Universidad Pontificia of Salamanca, Salamanca, Spain

PS4-36

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

Jesús Pardo-Valencia^{1,2}, Carla Fernández-García³, Fernando Alonso-Frech³, Guglielmo Foffani^{1,4}

¹HM CINAC (Centro Integral de Neurociencias Abarca Campal), Hospital Universitario HM Puerta del Sur, HM Hospitales, Madrid, Spain, ²Universidad Politécnica de Madrid, Madrid, Spain, ³Hospital Clínico San Carlos, Madrid, Spain, ⁴Hospital Nacional de Paraplégicos, SESCAM, Toledo, Spain

PS4-37

SECRETAGOGIN EXPRESSION IN THE MOUSE BRAIN

Pablo González Téllez De Meneses^{1,2,3}, Laura Pérez-Revuelta^{1,2,3}, Valeria Lorena Cabedo Navarro^{1,2,3}, Dr. David Díaz López^{1,2,3}, Dr. Eduardo Weruaga Prieto^{1,2,3}, Dr. Jorge Valero^{1,2,3}, Dr. José Ramón Alonso Peña^{1,2,3}

¹University Of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain

PS4-38

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

Dr. Víctor J. López-madrona¹, Prof. Agnès Trébuchon^{2,3}, Dr. Andrei Barborica⁴, Dr. Serge Vulliémot⁵, Prof. Fabrice Bartolomei^{1,2}, Dr. F. Xavier Alario⁶, Dr. Christian G. Bénar¹

¹Aix Marseille Univ, INSERM, INS, Inst Neurosci Syst, Marseille, France, ²APHM, Timone Hospital, Epileptology and cerebral rhythmology, Marseille, France, ³APHM, Timone Hospital, Functional and stereotactic neurosurgery, Marseille, France, ⁴Physics Department, University of Bucharest, Bucharest, Romania, ⁵EEG and Epilepsy Unit, University Hospitals and Faculty of Medicine, Geneva, Switzerland, ⁶Aix-Marseille Université, CNRS, LPC, Marseille, France

PS4-39

Chronic sensory deprivation alters cortical rhythms in the somatosensory cortex

Ms. Marta Zaforas¹, Ms. Elena Alonso-Calviño¹, Ms. Elena Fernández-López¹, Ms. Claudia Miguel-Quesada¹, Dr. Antonio Oliviero¹, Dra. Juliana M Rosa¹, Dr. Juan Aguilar¹

¹Hospital Nacional De Paraplégicos, Toledo, Spain



PS4-40

Investigating the role of auditory cortex on decisions about sound lateralization

Ms. Ana Mafalda Valente¹, Mr. Juan Castiñeiras de Saa¹, Dr. Alfonso Renart¹

¹Champlimaud Research, Lisbon, Portugal

PS4-41

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

Ms. Paula Peixoto-Moledo¹, MD, PhD Josep Dalmau^{1,2,3,4}, PhD Pablo Jercog¹

¹Institut d'Investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain, ²Hospital Clínic, Department of Neurology, Universitat de Barcelona, Barcelona, Spain, ³University of Pennsylvania, USA, ⁴Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

PS4-42

Inhibition in a midbrain circuit controlling instinctive escape decisions

Oriol Pavón Arocas¹, Vanessa Stempel¹, Sarah Olesen¹, Tiago Branco¹

¹Sainsbury Wellcome Centre, UCL, London, United Kingdom

PS4-43

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

Mr. Emilio Martínez-Márquez¹, Mr. Santiago Reyes-León¹, Mrs. Guadalupe Asensio-Gómez¹, Dr. José Luis Nieto-González¹, Dr. Pablo García-Junco-Clemente¹

¹Instituto de Biomedicina de Sevilla (IBIS)/HUVR/CSIC/Universidad de Sevilla, Sevilla, Spain

PS4-44

Perceptual decisions results from the accumulation of unpredicted sensory evidence

Mr. Alexandre Hyafil¹, Pau Blanco-Arnau

¹Centre De Recerca Matemàtica, Bellaterra, Spain

PS4-45

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

Ms. Cristina Pereira¹, Ms. Coral Torres-Querol¹, Dra. Glòria Arqué^{1,2}, Dr. Francisco Purroy^{1,2,3}

¹Institut de Recerca Biomèdica de Lleida (IRB Lleida), Lleida, Spain, ²Universitat de Lleida, Lleida, Spain, ³Hospital Universitari Arnau de Vilanova de Lleida, Lleida, Spain



PS4-46

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

Mr. Óscar Elia-Zudaire¹, Ms. María José Conde-Dusman^{1,2,3}, Dr. Luis García-Rabaneda^{1,4}, Ms. Carmen García-Lira¹, Prof. Isabel Perez-Otaño¹

¹Instituto de Neurociencias de Alicante, CSIC-UMH, San Juan de Alicante, Spain, ²Centre for Developmental Neurobiology, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, ³MRC Centre for Neurodevelopmental Disorders, King's College London, London, United Kingdom, ⁴Institute of Science and Technology, Klosterneuburg, Austria

PS4-47

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

Mr. Valentin Ionescu¹

¹Cantemir-vodă National College, Bucharest, Romania

PS4-48

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

Mr. Valentin Ionescu¹

¹Cantemir-vodă National College, Bucharest, Romania

PS4-49

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

Mr. Jose Manuel Hernandez Curiel¹, Dr. Ángel Manuel Carrión Rodríguez¹

¹Universidad Pablo De Olavide, Seville, España

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.

Dr. Demetrio Ferro^{1,2}, Anna Rifé Mata^{1,2}, Tyler Cash-Padgett³, Maya Z. Wang³, Prof. Benjamin Hayden³, Prof. Rubén Moreno Bote^{1,2}

¹Center for Brain and Cognition (CBC), Universitat Pompeu Fabra, 08002 Barcelona, Spain, ²Engineering Department of Information and Communication Technologies (ETIC), Universitat Pompeu Fabra, 08002 Barcelona, Spain, ³Department of Neuroscience, Center for Magnetic Resonance Research, Center for Neuroengineering, University of Minnesota, Minneapolis MN 55455, USA



PS4-51

Behavioral mechanisms underlying visually-guided control of steering

Mr. Jorge Ramírez-Ruiz¹, PhD Akiyuki Anzai², PhD Jan Drugowitsch³, PhD Gregory DeAngelis², PhD Rubén Moreno-Bote^{1,4,5}

¹Center for Brain and Cognition, Department of Information and Communication Technologies, Universitat Pompeu Fabra, Barcelona, Spain, ²Department of Brain and Cognitive Sciences, Center for Visual Science, University of Rochester, Rochester, United States of America, ³Department of Neurobiology, Harvard Medical School, Boston, United States of America, ⁴Serra Hunter Fellow Programme, Universitat Pompeu Fabra, Barcelona, Spain, ⁵Catalan Institution for Research and Advanced Studies–Academia, Barcelona, Spain

PS4-52

A novel visuospatial working memory task in mice

Ms. Balma Serrano-Porcar¹, Ms. Eva Carrillo¹, Mr. Rafael Marín¹, Ms. Anna Graell¹, Ms. Tiffany Ona-Jodar¹, Mr Josep Dalmau^{1,2,3}, Mr Albert Compte¹, Mr Jaime de la Rocha¹

¹Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ²Hospital Clínic, Barcelona, Spain, ³ICREA, Barcelona, Spain

PS4-53

Mechanisms of post-stroke cognitive impairment: hippocampal involvement

Ms. Cristina Torres-López^{1,2,3}, Dr Juan De la Parra⁵, **Dr Maria Isabel Cuartero^{1,2,3}**, Dr Alicia García-Culebras^{1,2,3}, Ms Tania Jareño-Flores^{1,2}, Dr Marina Benito⁶, Dr David Castejón^{2,4}, Dr Encarnación Fernández-Valle^{2,4}, Dr Juan Manuel García-Segura^{2,4}, Dr Ignacio Lizasoain^{2,3,7}, Dr María Ángeles Moro^{1,2,3,7}

¹Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), Madrid, Spain, ²Universidad Complutense de Madrid (UCM), Madrid, Spain, ³Instituto Universitario de Investigación en Neuroquímica (IUIN), Universidad Complutense de Madrid (UCM), Madrid, Spain, ⁴Facultad de Ciencias Químicas, Universidad Complutense de Madrid (UCM), Madrid, Spain, ⁵GW Pharmaceuticals, Madrid, Spain, ⁶Hospital Nacional de Paraplégicos de Toledo, Toledo, Spain, ⁷Instituto de Investigación Hospital 12 de Octubre (i+12), Madrid, Spain

PS4-54

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

Dr. Irene Navarro-Lobato¹, Dr. Mariam Masmudi-Martín¹, Ms. Maria del Rosario Gonzalez-Bermudez¹, Ms. Marta Carretero-Rey¹, **Dr. Zafar U. Khan¹**

¹University of Malaga, Malaga, Spain

PS4-55

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



Ms. Noelia Cantero García¹, Dr. Antonio Flores Burgess¹, Franciso Allén², Laura Orio², Antonia Serrano³, Ms. Laura García Durán¹, Kjell Fuxe⁴, José Ángel Narváez¹, Luis Santín⁵, Zaida Díaz Cabiale¹, Carmelo Millón¹

¹Facultad de Medicina, Universidad de Málaga, Málaga, Spain, ²Universidad Complutense de Madrid, Madrid, Spain, ³Unidad de Gestión Clínica de Salud Mental e Instituto de Investigación Biomédica de Málaga, Málaga, Spain, ⁴Karolinska Institute, Stockholm, Sweden, ⁵Facultad de Psicología, Universidad de Málaga, Málaga, España

PS4-56

EPILEPTIC SEIZURE PREDICTION WITH A LSTM NETWORK

Mr. Ángel Canal-Alonso^{1,2}, Dr. Roberto Casado-Vara¹, Dr. Javier Prieto^{1,2}, Prof. Juan Manuel Corchado^{1,3,4,5}

¹BISITE Research Group, University of Salamanca, Salamanca, Spain, ²Institute for Biomedical Research of Salamanca, Salamanca, Spain, ³Air Institute, IoT Digital Innovation Hub, Carvajosa de la Sagrada, Spain, ⁴Department of electronics, Information and Communication, Faculty of Engineering, Osaka Institute of Technology, Osaka, Japan, ⁵Pust Komputeran dan Informatik Universiti Malaysia Kelantan, Kelantan, Malaysia

PS4-57

Bump attractor dynamics underlying stimulus integration in perceptual estimation tasks

Dr. Jose M. Esnaola-Acebes^{1,2}, Dr. Alex Roxin^{1,2}, Dr. Klaus Wimmer^{1,2}

¹Centre de Recerca Matemàtica (CRM), Bellaterra (Barcelona), Spain, ²Barcelona Graduate School of Mathematics (BGSMath), Bellaterra (Barcelona), Spain

PS4-58

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

Ms. Sara Hernández-Recio¹, Dr. Daniel Torres¹, Dr. Julia Makarova¹, Dr. Oscar Herreras¹

¹Cajal Institute, Madrid, Spain

PS4-59

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

Ms. Ened Rodríguez Urgellés^{1,2,3}, Mr. Ignacio del Castillo^{1,2,3}, Dr. Albert Giralte^{1,2,3}, Dr. Jordi Alberch^{1,2,3}

¹University Of Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), , Spain

PS4-60

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

Ms. Patrycja Klimczak¹, Ms. Yaiza Gramuntell¹, Ms. Arianna Rizzo¹, Mr. Marc Beltran¹, Ms. Aitana Vazquez¹, Prof. Juan Nacher^{1,2,3}



¹Institute of Biotechnology and Biomedicine (BIOTECMED), Universitat de València, Valencia, Spain, ²CIBERSAM: Spanish National Network for Research in Mental Health, , Spain, ³Fundación Investigación Hospital Clínico de Valencia, INCLIVA, Valencia, Spain

PS4-61

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

Ms. Júlita Alcaide¹, Dr. Clara Bueno-Fernandez¹, Dr. Marta Perez-Rando¹, Dr. Esther Castillo-Gómez^{2,3}, Ms. Yaiza Gramuntell¹, Mr. Marc Beltran¹, Prof. Juan Nacher^{1,3,4}

¹Institute of Biotechnology and Biomedicine (BIOTECMED), Universitat de València, València, Spain, ²School of Medical Sciences, Universitat Jaume I, València, Spain, ³CIBERSAM: Spanish National Network for Research in Mental Health, València, Spain, ⁴Fundación Investigación Hospital Clínico de Valencia, INCLIVA, ,

PS4-62

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

Laura Pérez-Revuelta^{1,2,3}, Ester Pérez-Martín^{1,2,3}, Pablo González Téllez de Meneses^{1,2,3}, Dr. Eduardo Weruaga Prieto^{1,2,3}, Dr. José Ramón Alonso Peña^{1,2,3}, Dr. David Díaz López^{1,2,3}

¹University of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain

PS4-63

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

Ms. Leticia López-Valencia¹, Ms. Berta Escudero¹, Ms. Marta Moya¹, Prof. Laura Orio¹

¹Facultad de Psicología, Universidad Complutense Madrid, Madrid, Spain

PS4-64

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

Ms. Marta Moya¹, Ms. Berta Escudero¹, Ms. Leticia López-Valencia¹, Dr. Carmen Guerrero⁴, Ms. Elena Gómez Blázquez¹, Prof. Meritxell López-Gallardo², Prof. Borja García-Bueno², Prof. Eva María Marco³, Prof. Laura Orio¹

¹Facultad de Psicología, Universidad Complutense Madrid, Madrid, Spain, ²Facultad de Medicina, Universidad Complutense Madrid, Madrid, Spain, ³Facultad de Biología, Universidad Complutense Madrid, Madrid, Spain, ⁴Biobanco del Hospital Universitario Fundación Alcorcón , Madrid, Spain



PS4-65

Non-motor symptoms and neuronal alterations in a comorbidity mice model of depression and Parkinson's disease**Mr. Adrian Sanz-Magro^{1,2}**, Dr. Noelia Granado^{1,2}, Mr. Manuel Márquez-Rivera¹, Prof. Rosario Moratalla^{1,2}¹Instituto Cajal, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain, ²CIBERNED, Instituto de Salud Carlos III, Madrid, Spain

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-Tarrés¹**, PhD Jérôme Leprince⁵, Ms. Anna Sancho-Balsells^{2,3,4}, PhD Albert Giralte^{2,3,4}, PhD Jordi Alberch^{2,3,4}, PhD David Vaudry⁵, PhD Xavier Xifró¹¹Universitat de Girona, Girona, Spain, ²Universitat de Barcelona, Barcelona, Spain, ³Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ⁴Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁵Université de Rouen, Normandie, France

PS4-67

STEREOLOGICAL ANALYSIS OF NEURONS AND GLIA IN THE SUBICULAR COMPLEX IN ALZHEIMER'S DISEASE**Ms. Veronica Astillero-lopez¹**, Ms. Sandra Villar-Conde¹, Ms. Melania Gonzalez-Rodriguez¹, Dr. Alicia Flores-Cuadrado¹, Dr. Isabel Ubeda-Banon¹, Prof. Alino Martinez-Marcos¹, Dr. Daniel Saiz-Sanchez¹¹Ciudad Real Medical School/CRIB, University of Castilla-La Mancha, Ciudad Real, Spain

PS4-68

ROS-INDUCED SP1 REGULATES WRAP53 LEVELS AND NUCLEAR ACCUMULATION LEADING TO NEUROPROTECTION AFTER ISCHEMIA**Ms. Sandra Martínez-peralta^{1,2}**, Irene Sánchez-Morán², Cristina Rodríguez^{1,2}, Ángeles Almeida^{1,2}¹Institute of Biomedical Research of Salamanca (IBSAL), University Hospital of Salamanca, University of Salamanca, CSIC, Salamanca, Spain, ²Institute of Functional Biology and Genomics (IBFG), CSIC, University of Salamanca, Salamanca, Spain

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}¹University of Salamanca, Salamanca, Spain, ²INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, ³IBSAL, Institute of Biomedical Research of Salamanca, Salamanca, Spain



PS4-70

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

PhD student Berta Alcover-Sanchez¹, Master student Gonzalo Garcia-Martin¹, Master student Juan Escudero-Ramirez¹, PhD Carolina Gonzalez-Riano², Paz Lorenzo², Dr. Alfredo Gimenez-Cassina¹, Dr. Laura Formentini¹, Dr. Pedro de la Villa-Polo^{3,4}, Dr. Marta Pereira¹, Dr. Francisco Wandosell¹, **Dr. Beatriz Cubelos¹**

¹Universidad Autónoma de Madrid -CBMSO-CSIC, Madrid, Spain, ²CEMBIO-CEU, Madrid, Spain, ³Universidad de Alcalá, Madrid, Spain, ⁴IRYCIS, Madrid, Spain

PS4-71

Inflammation And Autophagy In Glycogen-Induced Neurodegeneration

Dr. Jordi Duran^{1,2,3,7}, Dr. Pasquale Pellegrini¹, Dr. Arnau Hervera^{3,4,5,6}, Dr. Olga Varea¹, Dr. Iliana López-Soldado¹, Prof. Jose Antonio del Río^{3,4,5,6}, Prof. Joan J. Guinovart^{1,2,5}

¹Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, Barcelona, Spain, ²Centro de Investigación Biomédica en Red de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM), Madrid, Spain, ³Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, Barcelona, Spain, ⁴Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁵Universitat de Barcelona, Barcelona, Spain, ⁶Institute of Neurosciences, University of Barcelona, Barcelona, Spain, ⁷Universitat Ramon Llull, Institut Químic de Sarrià (IQS), Barcelona, Spain

PS4-72

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

Ms. Nuria Peñuelas¹, Dr Ariadna Laguna¹, Dr Marta Gonzalez-Sepulveda¹, Mr Lluís Miquel-Rio², Dr Helena Xicoy¹, Mr Joan Compte¹, Ms Alba Nicolau¹, Ms Marina Lorente-Picón¹, Mr Jordi Romero-Giménez¹, Ms Annabelle Parent¹, Dr Thais Cuadros¹, Dr Analía Bortolozzi², Dr Iria Carballo-Carbajal, Dr Miquel Vila^{1,3,4}

¹Vall d'Hebron Research Institute (VHIR)-Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain, ²IIBB-CSIC, August Pi i Sunyer Biomedical Research Institute (IDIBAPS)-Center for Networked Biomedical Research on Mental Health (CIBERSAM), Barcelona, Spain, ³Autonomous University of Barcelona (UAB), Barcelona, Spain, ⁴Catalan Institution for Research and Advanced Studies (ICREA), Barcelona, Spain

PS4-73

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

Ms. Nira Hernández¹, Ms. María Gómez¹, Mr. Guillermo Santamaría², Mr. Rubén Fernández¹, Dr. Luis García^{1,3}, Dr. Mercedes Delgado¹, Dr. Francisca Gómez¹, Dr. Eduardo Martín⁴, Prof. Miguel Ángel Pozo^{1,3}

¹Instituto Pluridisciplinar, Universidad Complutense De Madrid, Madrid, Spain, ²Instituto de Investigación Sanitaria, Fundación Jiménez Díaz, Madrid, Spain, ³Instituto de Investigación Sanitaria San Carlos (IdiSCC), Madrid, Spain, ⁴Instituto Cajal, Madrid, Spain



PS4-74

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

Ms Elva Martín-Batista^{1,2}, Mr Rian Manville³, Mr David Bartolome-Martin^{1,2}, Ms Belinda Rivero^{1,2}, Mr Geoffrey Abbott³, Mr Diego Alvarez de la Rosa^{1,2}, Ms Teresa Giraldez^{1,2}

¹University of la Laguna, San Cristóbal de la Laguna, Spain, ²Institute of Biomedical Technologies, San Cristóbal de la Laguna, Spain, ³University of California, Irvine, Irvine, United States

PS4-76

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

Ms. Rebeca Martínez-Lazaro^{1,2}, Dr. David Bartolome-Martin^{1,2}, Dr. Ricardo Gomez^{1,2}, Dr. Teresa Giraldez^{1,2}

¹University of La Laguna, San Cristóbal de la Laguna, España, ²Institute of Biomedical Technologies, San Cristóbal de la Laguna, España

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 Giralte^{3,4}, Dr. Jordi Alberch^{3,4}, Dr. Montse Solé^{1,2,4}, Dr. Joan X. Comella^{1,2,4}

¹Vall d'Hebron Institute of Research (VHIR), Barcelona, Spain, ²Facultat de Medicina, Universitat Autònoma de Barcelona (UAB), Bellaterra, Spain, ³Facultat de Medicina, Universitat de Barcelona (UB), Barcelona, Spain, ⁴Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), ISCIII, Madrid, Spain

PS4-78

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

Dr. Sara Hernandez¹, Dr. Anna Casanovas¹, Ms. Sara Salvany¹, Dr. Olga Tarabal¹, Ms. Alba Blasco¹, Ms. Alaó Gatiús¹, Ms. Silvia Gras¹, Ms. Lidia Piedrafita¹, Dr. Markus Schwab², Dr. Jordi Calderó¹, Dr. Josep Esquerda¹

¹Universitat De Lleida, Lleida, Spain, ²Hannover Medical School, Hannover, Germany

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 Gramage¹, Ms Isabel Jiménez Ridruejo¹, Dr. Elena Alberdi Alfonso^{1,2,3}, Dr. Amaia Arranz Mendiguren^{1,4}

¹Acucharro Basque Center For Neuroscience, Leioa, Spain, ²Universidad del País Vasco (UPV/EHU), Leioa, Spain, ³Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Leioa, Spain, ⁴Ikerbasque Basque Foundation for Science, Bilbao, Spain



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}

¹Centro De Investigación Biomédica en Red (CIBERNED), Madrid, Spain, ²Centro de Tecnología Biomédica (CTB), Universidad Politécnica de Madrid (UPM), Madrid, Spain, ³Instituto Cajal, Spanish National Research Council (CSIC), Spain, ⁴Facultad de Veterinaria, Universidad Complutense de Madrid (UCM), Spain

PS4-81

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

Ms. Marina Lorente Picón¹, Dr. Miquel Vila^{1,2,3}, Dra. Ariadna Laguna¹

¹Vall d'Hebron Research Institute (VHIR)-Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain, ²Autonomous University of Barcelona, Barcelona, Spain, ³Catalan Institution for Research and Advanced Studies (ICREA), Barcelona, Spain

PS4-82

Purification and characterization of hPSC-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}

¹Laboratory of Stem Cells and Regenerative Medicine, Department of Biomedical Sciences, Barcelona, Spain, ²Creation-Production and Validation Center of Advanced Therapies, Faculty of Medicine and Health Sciences, Barcelona, Spain, ³Institute of Neurosciences, University of Barcelona, Barcelona, Spain, ⁴IDIBAPS, Barcelona, Spain, ⁵CIBERNED, Barcelona, Spain

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 Giralte^{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}

¹Institute of Neurosciences, School of Medicine and Health Sciences, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain

PS4-85

CHRONICALLY INCREASING CORTICOSTRIATAL ACTIVITY PRODUCES STRIATAL ASTROCYTOSIS IN MICE



PhD Desire Humanes¹, PhD student Jesús Pardo-Valencia^{1,2}, PhD student Miryam Moreno-Gómez¹, Noelia Mercado-García¹, Beatriz Pro-Sánchez¹, Ana Revuelto-González^{1,3}, PhD Tiziano Balzano¹, PhD Javier Blesa^{1,4}, Dr. José A. Obeso^{1,4,5}, PhD Guglielmo Foffani^{1,4,6}

¹HM CINAC (Centro Integral de Neurociencias Abarca Campal), Hospital Universitario HM Puerta del Sur, HM Hospitales, Madrid, Spain, ²Universidad Politécnica de Madrid, Madrid, Spain, ³Universidad Complutense de Madrid, Madrid, Spain, ⁴CIBERNED, Instituto Carlos III, Madrid, Spain, ⁵Universidad CEU-San Pablo, Madrid, Spain, ⁶Hospital Nacional de Paraplégicos, SESCAM, Toledo, Spain

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. Zegarria-Valdivia^{1,2,3}, Dr Pablo Mendez¹, Dr Ángel Nuñez⁴, Dr Ignacio Torres-Aleman^{1,2,3}

¹Cajal Institute, Madrid, Spain, ²Ciberned, , Spain, ³Achucarro Basque Neuroscience Center, Leioa, , ⁴University Autonoma of Madrid, Madrid, Spain

PS4-87

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

Dr. Marta Perez-Rando¹, Dr. Ramon Guirado¹, Dr. Hector Carceller¹, Dr. Juan Nacher¹

¹Neurobiology Unit, University Of Valencia, Valencia, Spain

PS4-88

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

Mr. Antonio Cerdán-Cerdá¹, **Ms. Raquel Garcia-Hernandez¹**, Mr. Alejandro Trouve-Carpena¹, Mr. Santiago Canals¹, Ms. Silvia De Santis^{1,2}

¹Instituto de Neurociencias de Alicante, CSIC/UMH, Alicante, Spain, ²CUBRIC, School of Psychology, Cardiff University, Cardiff, UK

PS4-89

Transcranial static magnetic stimulation over visual cortex of healthy subjects

Ms. Marta Zaforas¹, Dr Vanesa Soto-León¹, Dr Antonio Oliviero¹

¹Hospital Nacional De Paraplégicos, SESCAM, Toledo, Spain

PS4-90

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

Ms. María Almudena Coto Vilcapoma¹, Mr. Juan Castilla Silgado¹, Dr Ana Silvia González García¹, Dr. Víctor Vega Martínez¹, Dr Cristina Tomás Zapico^{1,3}, Dr Víctor Manuel de la Prida Pidal¹, Dr Manuel Menéndez González^{2,3}



¹Universidad de Oviedo, Oviedo, Spain, ²Hospital Universitario Central de Asturias, Oviedo, Spain, ³Instituto para la Investigación Sanitaria del Principado de Asturias, Oviedo, España

PS4-91

Adjusting and validating a procedure for parenteral anaesthesia in neonatal mice

Sandra Sanahuja-Irene¹, Rafael Goterris-Cerisuelo¹, Maria Jose Sanchez-Catalan¹, Fernando Martinez-Garcia¹

¹Universitat Jaume I, Castelló De La Plana, Spain

PS4-92

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

Ms. Rosa González¹, Ms. Raquel Coronel², Dr. Adela Bernabeu-Zornoza², Ms. Andreea Rosca², Ms. Patricia Mateos², Dr. Victoria López¹, Dr. Isabel Liste¹

¹Unidad de Biología Computacional, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto De Salud Carlos III, Madrid, Spain, ²Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto De Salud Carlos III, Madrid, Spain

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-Gomez¹, Teresa Bermejo¹, Noelia Rodriguez-Iglesias^{2,3}, Jorge Valero^{4,5}, Diego Sanchez¹, Eduardo Arranz¹, Irene Cozar-Castellano¹, Maria Dolores Ganfornina¹

¹Instituto de Biología y Genética Molecular, Universidad de Valladolid-CSIC, Valladolid, Spain, ²Achucarro Basque Center for Neuroscience, Science Park of the UPV/EHU, Leioa, Spain, ³Department of Neurosciences, University of the Basque Country, Leioa, Spain, ⁴Institute of Neuroscience of Castilla y León – INCyL, University of Salamanca, Salamanca, Spain, ⁵Institute for Biomedical Research of Salamanca, Salamanca, Salamanca, Spain

PS4-94

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

Miriam Corraliza-Gomez¹, Beatriz Bendito-Guilarte¹, **David Sardonis-Camarero¹**, Diego Sanchez¹, Maria Dolores Ganfornina¹

¹Instituto de Biología y Genética Molecular, Universidad de Valladolid-CSIC, Valladolid, Spain



PS4-95

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

Miriam Corraliza-Gomez¹, Dr. Manuela del Caño-Espinel¹, Dr. Diego Sanchez¹, Dr. Maria D. Ganfornina¹

¹*Instituto de Biología y Genética Molecular, University of Valladolid, Valladolid, Spain*



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

Ms. Júlia Freixes^{1,2}, Dr Loreta Medina^{1,2}, Dr Ester Desfilis^{1,2}

¹Universitat de Lleida, Lleida, Spain, ²Lleida's Institute for Biomedical Research-Dr. Pifarré Foundation (IRBLleida), Lleida, Spain

PS5-02

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

Ms. Isabel Calatayud-Baselga¹, Mr. Jose María Guijarro¹, Dr. Lucía Casares-Crespo¹, Dr. Helena Mira¹

¹Instituto De Biomedicina De Valencia, Valencia, España

PS5-03

Postnatal refinement of interhemispheric callosal projections: GluN3A-mediated mechanisms

Dr. Oliver Crawley¹, Ana Navarro¹, Prof. Isabel Pérez-Otaño¹

¹Instituto de Neurociencias, San Juan de Alicante, Spain

PS5-04

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

Ms. Andreea Rosca^{1,2}, Ms. Raquel Coronel¹, Ms. Rosa González^{1,3}, Ms. Patricia Mateos¹, Dra. López Victoria³, Dra. María del Carmen González⁴, Dra. Isabel Liste¹

¹Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), Majadahonda, Spain, ²Universidad de Alcalá, Alcalá de Henares, Spain, ³Unidad de Biología Computacional, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), Majadahonda, Spain, ⁴Centro Nacional de Sanidad Ambiental, Instituto de Salud Carlos III (ISCIII), Majadahonda, Spain

PS5-05

APC/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}

¹Instituto de Investigación Biomédica de Salamanca (IBSAL), Hospital Universitario de Salamanca, Salamanca, Spain, ²Instituto de Biología Funcional y Genómica (IBFG), Universidad de Salamanca, CSIC, Salamanca, Spain



PS5-06

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

Ms. Raquel Coronel^{1,2}, Ms Andreea Rosca¹, Ms Rosa González^{1,3}, Ms Patricia Mateos¹, Dra. Victoria López³, Dr. Eduardo Arilla-Ferreiro², Dra. Isabel Liste¹

¹Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), Majadahonda / Madrid, Spain, ²Unidad de Neurobioquímica, Departamento Biología de Sistemas, Facultad de Medicina, Universidad de Alcalá, Alcalá de Henares / Madrid, Spain, ³Unidad de Biología Computacional, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), Majadahonda / Madrid, Spain

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 Skrepmpou³, PhD Femke den Boon³, PhD Daniel García Rincón^{1,2}, PhD Juan Paraíso Luna^{1,2}, PhD Taco Werkman³, Manuel Guzmán^{1,2}, Pascal Chameau³, Ismael Galve Roperh^{1,2}

¹Universidad Complutense De Madrid, Madrid, Spain, ²Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS) e Instituto Universitario de Investigación en Neuroquímica (IUIIN), Madrid, Spain, ³Swammerdam Institute for Life Sciences, Center for Neuroscience, University of Amsterdam, Amsterdam, The Netherlands

PS5-08

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

Dra. Adela Bernabeu-Zornoza¹, **Ms Raquel Coronel^{1,2}**, Dra. Charlotte Palmer¹, Ms Rosa González^{1,3}, Ms Andreea Rosca¹, Ms Patricia Mateos¹, Dra. Victoria López³, Dra. Isabel Liste¹

¹Unidad de Regeneración Neural, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), Majadahonda / Madrid, Spain, ²Unidad de Neurobioquímica, Departamento Biología de Sistemas, Facultad de Medicina, Universidad de Alcalá, Alcalá de Henares / Madrid, Spain, ³Unidad de Biología Computacional, Unidad Funcional de Investigación de Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III (ISCIII), , Spain

PS5-09

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

Dra Sonia Nocera¹, **Dr. Miguel Marchena^{1,2}**, Beatriz Fernández-Gómez¹, Yolanda Lao¹, Lidia Sobrino^{1,3}, Dr Rafael Lujan⁴, Dr Fernando de Castro¹

¹Instituto Cajal, Madrid, Spain, ²Universidad Europea de Madrid, Villaviciosa de Odón (Madrid), Spain, ³Universidad Rey Juan Carlos, Madrid, Spain, ⁴Universidad de Castilla la Mancha, Albacete, Spain



PS5-10

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

Dr. Giacomo Milletti¹, Dr. Emiliano Maiani², Dr. Francesca Nazio¹, Prof. Jiri Bartek³, Prof. Francesco Cecconi¹

¹Bambino Gesù Children's Hospital, Rome, Holy See [Vatican City State], ²Cell Stress and Survival Unit, Danish Cancer Research Center, Copenhagen, Denmark, ³Genome Integrity Unit, Danish Cancer Research Center, Copenhagen, Denmark

PS5-11

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

Dr. Salvador Herrera-Pérez¹, Ms. Claudia Miguel-Quesada¹, Ms. Marta Zaforas¹, Ms. Elena Alonso-Calviño¹, Ms. Elena Fernández-López¹, Dr. Juan Aguilar¹, Dra. Juliana M Rosa¹

¹Hospital Nacional de Paraplégicos. SESCAM, Toledo, Spain

PS5-12

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

Ms. Claudia Miguel Quesada¹, Ms. Alba Fernández-González¹, Dra. Elvira Brocca¹, Dr. Alonso Higuero¹, Ms. Marta Zaforas¹, Ms. Elena Alonso-Calviño¹, Ms. Elena Fernández-López¹, Doctor José Abad¹, Doctor Juan Aguilar¹, Dra. Juliana M Rosa¹

¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain

PS5-13

Cortical astrocytes exhibit functional heterogeneity to discriminate sensory modalities

Ms. Claudia Miguel Quesada¹, Ms. Marta Zaforas¹, Doctor Salvador Herrera¹, Ms. Elena Fernández-López¹, Ms. Elena Alonso-Calviño¹, Doctor Juan Aguilar¹, Dra. Juliana M Rosa¹

¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain

PS5-14

Neuron-derived extracellular vesicles enhance synaptic plasticity through RTP801

Ms. Julia Solana Balaguer^{1,2,3}, Mr. Albert Coll Manzano^{1,2,3,4}, Mr. Genís Campoy Campoy^{1,2,3}, Dr. Leticia Pérez Sisqués^{1,2,3}, Dr. Núria Martín Flores^{1,2,3,5}, Dr. Jordi Alberch^{1,2,3,4}, Dr. Jordi Soriano^{1,6}, Dr. Mercè Masana^{1,2,3,4}, Dr. Cristina Malagelada^{1,2,3}

¹Universitat De Barcelona, Barcelona, Spain, ²Institut de Neurociències, School of Medicine and Health Sciences of the University of Barcelona, Barcelona, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Barcelona, Spain, ⁴IDIBAPS-Instituto de Investigaciones Biomédicas August Pi i Sunyer, School of Medicine and Health Sciences of the University of Barcelona, Barcelona, Spain, ⁵University College London, London, United Kingdom, ⁶Institute of Complex Systems (UBICS), Barcelona, Spain



PS5-15

Microglial local translation in A β -induced pathology

Ms. Josune Imaz¹, Maite Blanco^{1,2}, Jimena Baleriola^{1,2,3}

¹Achucarro Basque Center For Neuroscience, Leioa, Spain, ²University of the Basque Country, Leioa, Spain, ³IKERBASQUE, Basque Foundation for Science, Bilbao, Spain

PS5-16

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

Dr. Laura DeOliveira-Mello¹, Dr. Andreas F. Mack², Dr. Juan Lara¹, Dr. Rosario Arevalo¹, Dr. Almudena Velasco¹

¹University of Salamanca, Salamanca, España, ²University of Tübingen, Tübingen, Germany

PS5-17

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

Dr. Lorena Ruiz-Clavijo^{1,2}, **Dr. C Alonso^{3,4,5}**, Dr Onintza Sagredo^{3,4,5}, Dr Juan Manuel Encinas^{1,2,6}

¹Achucarro Basque Center for Neuroscience, Leioa, Spain, ²University of the Basque Country (UPV/EHU), Leioa, Spain,

³Instituto Universitario de Investigación en Neuroquímica, Departamento de Bioquímica y Biología Molecular, Facultad de Medicina, Universidad Complutense, Madrid, Spain, ⁴Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁵Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), , , ,

⁶IKERBASQUE, The Basque Science Foundation, Bilbao, Spain

PS5-18

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

Mr. Sergio Del Olmo-Cabrera¹, **Dr. John Wesseling¹**

¹Instituto De Neurociencias CSIC-UMH, San Juan de Alicante, Alicante, Spain

PS5-19

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

Mr. Juan Jose Rodriguez Gotor¹, Dr. Kashif Mahfooz², Dr. Mathan K. Raja³, Dr. John F. Wesseling¹

¹Instituto de Neurociencias CSIC-UMH, San Juan De Alicante, Alicante, Spain, ²Dept. of Pharmacology, University of Oxford, , UK, ³Dept. Neurociencias (CIMA), Universidad de Navarra, Pamplona, Spain



PS5-20

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

Dr. Yuniesky Andrade-Talavera^{1,2}, Dr. Luis Enrique Arroyo-García², Dr. Sara Bachiller³, Dr. Antonio Boza-Serrano³, Prof. Antonio Rodríguez-Moreno¹, Prof. Tomas Deierborg³, Dr. André Fisahn²

¹Universidad Pablo de Olavide, 41013-Seville, Spain, ²Karolinska Institutet, Stockholm, Sweden, ³Lund University, Lund, Sweden

PS5-21

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

Ms. Laura Sánchez-Sánchez^{1,2}, Dr. Egoitz Astigarraga¹, Dr. Diego Sánchez Romero¹, Dra María Dolores Ganfornina¹, Dr. Gabriel Barreda-Gómez²

¹IBGM Universidad De Valladolid-CSIC, Valladolid, Spain, ²IMG Pharma Biotech S.L, Derio, Spain

PS5-22

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

Ms. Angela Gento-Caro¹, Ms Esther Vilches-Herrando¹, Dr David González-Forero¹, Dr Bernardo Moreno-López¹

¹Área de Fisiología, Facultad de Medicina, Universidad de Cádiz, Cádiz, Spain

PS5-23

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

Ms. Esther Vilches Herrando¹, Ms Isis Gastaldo Jordán¹, Ms Ángela Gento Caro¹, Mr Federico Portillo¹, Mr David González-Forero¹, Mr Bernardo Moreno López¹

¹Área de Fisiología, Facultad de Medicina, Universidad de Cádiz, Cádiz, Spain

PS5-24

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

Ms. Andrea Reyes-Carrión^{1,2}, Dr. David Bartolomé-Martín^{1,2}, Mr. Alberto J. Gonzalez-Hernandez^{1,2}, Dr. Belinda Rivero-Perez^{1,2}, Dr. Teresa Giraldez^{1,2}

¹University of La Laguna, San Cristóbal de La Laguna, Spain, ²Biomedical Technologies Institute, San Cristóbal de La Laguna, Spain



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

Dr. Miguel Bosch^{1,2}, Dr. Aurore Thomazeau^{2,3}, Ms Sofia Essayan-Perez², Dr. Stephanie A. Barnes², Dr. Hector De Jesus-Cortes², Prof. Mark Bear²

¹Universitat Internacional de Catalunya, Sant Cugat del Vallès, Spain, ²Massachusetts Institute of Technology, Cambridge, USA, ³The Research Institute of the McGill University Health Centre, Montreal, Canada

PS5-26

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

Mr. Rafael Falcón-Moya¹, Mr. Mikel Pérez-Rodríguez¹, Dr. José Prius-Mengual¹, Dr. Antonio Rodríguez-Moreno¹

¹Pablo Olavide University, Seville, Spain

PS5-27

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

Mikel Pérez-Rodríguez¹, Antonio Rodríguez-Moreno¹

¹Laboratorio de Neurociencia Celular y Plasticidad, Departamento de Fisiología, Anatomía y Biología Celular, Universidad Pablo de Olavide, Sevilla, Spain

PS5-28

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

Ms. Irene Serra¹, Ms. Cristina Martín-Monteagudo¹, **Ms. Laura Delgado¹**, Dr. Marta Navarrete¹

¹Cajal Institute (CSIC), Madrid, Spain

PS5-29

The olfactory peduncle in human and nonhuman primates

Mr. Raspeño García¹, Ms. Aguilar Gomez¹, Dr. Sancho Bielsa¹, Ms. Cozar Cuesta¹, Ms. González Granero², Dr. Artacho Pérula¹, Dr. Insausti Serrano¹, Dr. García Verdugo², Dr. De la Rosa Prieto¹

¹Castilla La Mancha University, Albacete, Spain, ²Comparative Neurobiology Laboratory, Cavanilles Institute, Valencia, Spain



PS5-30

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

Mr. Jorge Selva Clemente^{1,3,4}, Dr. Noemí Villaseca González^{1,3,4}, Dr. Joaquin González Fuentes^{1,3,4}, Dr. Pilar Marcos Rabal^{2,3,4}, Dr Maria del Mar Arroyo Jiménez^{1,3,4}

¹School of Pharmacy, Universidad de Castilla-La Mancha, Albacete, Spain, ²School of Medicine, Universidad de Castilla-La Mancha, Albacete, Spain, ³Regional Center for Biomedical Research. University of Castilla-La Mancha, Albacete, Spain, ⁴Research Group: Cellular Neuroanatomy and Molecular Chemistry of the Central Nervous System, Albacete, Spain

PS5-31

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

Ms. Paola Pinto Hernández¹, Ms. Noelia Blanco Agudín¹, Mr. Manuel Fernández Sanjurjo^{1,2}, Mr. Benjamín Fernández García^{1,2}, Ms. Cristina Tomás Zapico^{1,2}, Mr. Eduardo Iglesias Gutiérrez^{1,2}

¹Department of Functional Biology (Physiology), University of Oviedo, Oviedo, Spain, ²Health Research Institute of the Principality of Asturias (ISPA), Oviedo, Spain

PS5-32

PROJECTIONS OF THE RAT MEDIAL SUPERIOR OLIVE

Mr. Héctor Rincón^{1,2,4}, Mr. Mario Gómez-Martínez^{1,3,4}, Dr. Marcelo Gómez^{1,3,4}, Prof. Enrique Saldaña^{1,3,4}

¹Instituto De Neurociencias De Castilla Y León, Salamanca, Spain, ²Universidad Pontificia de Salamanca, Salamanca, Spain,

³Universidad de Salamanca, Salamanca, España, ⁴Institute of Biomedical Research of Salamanca, Salamanca, España

PS5-33

MORPHOLOGICALLY DISTINCT AFFERENCES TO THE LATERAL SUPERIOR OLIVE

Mr. Juan Luis Láinez-Mejía^{1,3}, Mrs. Débora Díez-Sandoval^{1,3}, Dr. Marcelo Gómez-Álvarez^{1,2,3}, Prof. Enrique Saldaña^{1,2,3}

¹Neuroscience Institute of Castilla y León (INCyL), Salamanca, Spain, ²University of Salamanca, Salamanca, Spain, ³Institute of Biomedical Research of Salamanca (IBSAL), Salamanca, Spain

PS5-34

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

Prof. Maria V. Sanchez-Vives^{1,2}, Alessandra Camassa², Eduard Masvidal-Codina³, Dr Miquel Bosch², Dr Xavier Illa³, Dr Rosa Villa³, Prof Jose Garrido^{1,4}, Dr. Antón Guimerà-Brunet³, Dr. Almudena Barbero-Castillo²

¹ICREA, Barcelona, Spain, ²IDIBAPS, Barcelona, Spain, ³CNM-CIBER, Barcelona, Spain, ⁴ICN2, Barcelona, Spain



PS5-35

Distinct hemispherical responsiveness to transcranial static magnetic field stimulation?

Cristina Pagge¹, Dr. Guglielmo Foffani^{1,2,3}, Dr. Antonio Oliviero², Dr. Claudia Ammann¹

¹HM CINAC, Hospital Universitario HM Puerta del Sur, HM Hospitales, Madrid, Spain, ²Hospital Nacional de Paraplégicos, Toledo, Spain, ³CIBERNED, Instituto de Salud Carlos III, Madrid, Spain

PS5-36

Temporal binding of multisensory steady-state evoked responses

BSc Sara Cacciato¹, MSc José Ángel Ochoa¹, PhD Maria Jesús Nicolás¹, MSc Guillermo Besné¹, Ferran Capell^{1,2}, PhD Miguel Valencia^{1,3}

¹University of Navarra, CIMA, Pamplona, Spain, ²University of Navarra, School of Medicine, Pamplona, Spain, ³IdiSNA, Navarra Institute for Health Research, Pamplona, Spain

PS5-37

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

Mr. José Manuel Sánchez Sánchez¹, Dr. Fabio Riefolo², Dr. Almudena Barbero Castillo¹, Dr Pau Gorostiza^{2,3}, Dr Maria V Sanchez Vives^{1,3}

¹Instituto De Investigaciones Biomédicas August Pi I Sunyer (idibaps),, Barcelona, Spain, ²Instituto de Bioingeniería de Cataluña (IBEC), Barcelona, Spain, ³Institución Catalana de Investigación y Estudios Avanzados (ICREA), Barcelona, Spain

PS5-38

Phenotype Characterization of a Mice Model of Visual Blindness

Mr. SANTIAGO MILLA-NAVARRO¹, DR. ROMAN BLANCO¹, Dr. PEDRO DE LA VILLA¹

¹University of Alcalá, Alcalá de Henares, España

PS5-39

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

Débora Díez Sandoval^{1,2}, Juan Luis Láinez Mejía^{1,2}, Dr. Emmanuel Márquez Logorreta⁴, Prof. Enrique Saldaña^{1,2,3}

¹Neuroscience Institute of Castilla y León (INCYL), University of Salamanca, Salamanca, Spain, ²Institute of Biomedical Research of Salamanca (IBSAL), Salamanca, Salamanca, Spain, ³Department of Cell Biology and Pathology, University of Salamanca, Salamanca, Spain, ⁴Janelia Research Campus, Howard Hughes Medical Institute, Ashburn, USA



PS5-40

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

Rafael Goterris-cerisuelo¹, Sandra Sanahuja-Irene¹, Fernando Martinez-Garcia¹, Maria José Sánchez-Catalán¹, Manuela Barneo-Muñoz¹, Cinta Navarro-Moreno¹, Leticia Lacalle-Bergeron¹, Tania Portolés¹, Joaquín Beltrán¹, Juan Vicente Sancho¹

¹Universitat Jaume I, Castellón, Spain

PS5-41

Human Brain oscillations and region distribution in two different fatiguing tasks

Dr. Vanesa Soto León¹, Miss Mabel Torres Llacsa¹, Mr. Carlos Alonso Bonilla¹, Dr. Laura Mordillo Mateos², Miss Ana María Onate Figueres¹, Miss Marta Záforas Rodríguez¹, Dr Antonio Oliviero¹

¹Hospital Nacional De Paraplégicos, Toledo, Spain, ²Universidad De Castilla la Mancha, Toledo, Spain

PS5-42

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

Mr. Andrés Pérez-Segura¹, Mr. Antonio Cerdán-Cerdá¹, Dr. Santiago Canals¹

¹Instituto De Neurociencias Csic-umh, Sant Joan d'Alacant, Spain

PS5-43

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

Ms. Lola Capilla-López¹, Mr Ángel Deprada-Fernández¹, Dr Arnaldo Parra-Damas¹, Dr Carlos Alberto Saura¹

¹Institut de Neurociències, Centro de Investigación Biomédica en Red Enfermedades Neurodegenerativas (CIBERNED), Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain

PS5-44

Immune receptor TLR4 mediates cognitive deficit induced by high sodium diet

Mr. Enrique Fraga^{1,2,3,5}, Dra. Violeta Medina^{1,2}, Mr. Diego García-López¹, Dra. Macarena Hernández-Jiménez⁴, Ms. Sandra Sacristán^{1,2}, Mr. Jorge Hernández-Matarazzo^{1,2}, Dr. Ignacio Lizasoain^{2,3,5}, Dra. María Ángeles Moro^{1,2,3,5}

¹Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain, ²Facultad de Medicina, Universidad Complutense de Madrid (UCM), Madrid, Spain, ³Instituto Universitario de Investigación en Neuroquímica (IUIN), Universidad Complutense de Madrid (UCM), Madrid, Spain, ⁴Aptatargets SL, Avda. Cardenal Herrera Oria 298, Madrid, Spain, ⁵Instituto de Investigación Hospital 12 de Octubre (i+12), Madrid, Spain



PS5-45

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

Mr. Enrique Fraga^{1,2,3,4}, Dra. Violeta Medina^{1,2}, Ms Sandra Sacristán^{1,2}, Mr. Jorge Hernández-Matarazzo^{1,2}, Mr Diego García-López¹, Dr. Ignacio Lizasoain^{2,3,4}, Dra. María Ángeles Moro^{1,2,3,4}

¹Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain, ²Facultad de Medicina, Universidad Complutense de Madrid, Madrid, Spain, ³Instituto Universitario de Investigación en Neuroquímica (IUIN), Universidad Complutense de Madrid, Madrid, Spain, ⁴Instituto de Investigación Hospital 12 de Octubre (i+12), Madrid, Spain

PS5-47

Microglia Regulate Learning and Memory through NF-κB

Aysha M. Bhojwani-Cabrera¹, Carmen M. Navarrón-Izquierdo¹, María Royo¹, Sergio Niñerola¹, Ángel Márquez-Galera¹, Verónica Murcia-Belmonte¹, Juan Medrano-Relinque¹, Eloísa Herrera¹, Agnès Gruart², Ángel Barco¹, Sandra Jurado¹, José M. Delgado-García², José P. López-Atalaya¹

¹Instituto de Neurociencias, Universidad Miguel Hernández-Consejo Superior de Investigaciones, Alicante, Spain, ²División de Neurociencias, Universidad Pablo de Olavide, Sevilla, Spain

PS5-48

LEARNING CONDITIONS INFLUENCE HIPPOCAMPAL-DEPENDENT MEMORY AND CONTEXT DISCRIMINATION

Nuria Cano-Adamuz¹, César Redondo-Alañón¹, Pablo Méndez¹

¹Cajal Institute (CSIC), Madrid, Spain

PS5-49

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

Mr. Sergio Navarrete-Arroyo¹, PhD Lidia Vaqué-Alcázar^{1,2}, PhD Roser Sala-Lluch³, PhD Kilian Abellaneda-Pérez^{1,2}, Nina Coll-Padrós^{2,4}, Cinta Valls-Pedret^{2,5,6}, Núria Bargalló^{2,7}, Emilio Ros^{5,6}, PhD David Bartrés-Faz^{1,2}

¹Faculty of Medicine and Health Sciences, Institute of Neurosciences, University of Barcelona, 08036, Barcelona, Spain, ²Institute of Biomedical Research August Pi i Sunyer (IDIBAPS), 08036, Barcelona, Spain, ³Institute of Neurosciences, University of Barcelona, 08036, Barcelona, Spain, ⁴Alzheimer Disease and Other Cognitive Disorders Unit, Neurology Service, Hospital Clínic, 08036, Barcelona, Spain, ⁵Endocrinology and Nutrition Service, Lipid Clinic, Hospital Clínic, 08036, Barcelona, Spain, ⁶Centro de Investigación Biomédica en Red Fisiopatología de La Obesidad Y Nutrición (CIBEROBN), Instituto de Salud Carlos III (ISCIII), 28029, Madrid, Spain, ⁷Centre de Diagnòstic Per La Imatge, Hospital Clínic, 08036, Barcelona, Spain

PS5-50

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

Ms. Pasqualina Guida¹, Ms Mariana Monje, Mr Jose Angel Obeso, Mr. Ignacio Obeso



¹HM CINAC. Centro Integral de Neurociencias AC. HM Hospitales. Fundación de Investigación HM Hospitales. HM Hospitales, Madrid, Spain, ²PhD Program in Neuroscience, Autonoma de Madrid University, Madrid, Spain, ³CIBERNED, Madrid, Spain

PS5-51

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

Ms. Lidia Mulet-Pons^{1,2}, PhD Lidia Vaqué-Alcàzar^{1,2}, PhD Cristina Solé-Padullès^{1,2}, PhD Kilian Abellana-Pérez^{1,2}, PhD Gabriele Cattaneo³, PhD Javier Solana Sánchez³, Ms. Vanessa Alviarez-Schulze^{3,4}, PhD Dídac Macià⁴, Ms. María del Rocio Cabello Toscano^{1,2}, PhD Josep Maria Tormos³, PhD Álvaro Pascual-Leone^{3,5}, PhD David Bartrés-Faz^{1,2,3}

¹Departament de Medicina, Facultat de Medicina i Ciències de la Salut, Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain, ²Institut de Recerca Biomèdica August Pi i Sunyer, Barcelona, Spain, ³Institut Guttmann, Institut Universitari de Neurorehabilitació de la UAB, Badalona, Spain, ⁴Departament de Biomedicina, Facultat de Medicina i Ciències de la Salut, Universitat de Barcelona, Barcelona, Spain, ⁵Hinda and Arthur Marcus Institute for Aging Research, Hebrew SeniorLife, Harvard Medical School, Boston, USA

PS5-52

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

Dr. Federico Devalle¹, Dr. Alon Rubin², Dr. Yaniv Ziv², Dr. Alex Roxin^{1,3}

¹Centre De Recerca Matemàtica, Bellaterra (Barcelona), Spain, ²Weizmann Institute of Science, Rehovot, Israel, ³Barcelona Graduate School of Mathematics, Barcelona, Spain

PS5-53

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

Citlalli Vivar¹, Dr. Gabriela Mochol¹, Dr. Aaron J Levi², Dr. Alexander C Huk², Dr. Klaus Wimmer¹

¹Centre De Recerca Matemàtica (CRM), Spain, ²University of Texas at Austin, Austin, U.S.A.

PS5-54

Control limitations shape perceptual decision making

Mr. Juan R. Castifeiras De Saa¹, Dr. Alfonso Renart¹

¹Champalimad Research, Lisbon, Portugal

PS5-55

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



Dr. Maribel Cuartero¹, Ms. Carmen Nieto Vaquero¹, Ms. Sandra Vázquez Reyes¹, Dr. Isabel Bravo Ferrer², Dr. Alicia García Culebras¹, Mr Javier Castro Millán¹, Mr Daniel De los Reyes Hélices¹, Dr. Olivia Hurtado¹, Dr. María ángeles Moro¹

¹Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain, ²UK Dementia Research Institute, London, UK

PS5-56

Impact of tauopathies on the functional organization of neuronal cultures

Ms. Clara Fernández López^{1,2}, Ms. Júlia Sala Jarque^{1,3,4,5}, Dra. Vanessa Gil Fernández^{1,3,4,5}, Dr. Jose Antonio Del Río Fernández^{1,3,4,5}, Dr. Isidre Ferrer Abizanda⁶, Dr. Ernest Giraldo Lledó^{1,7}, Dr. Jordi Soriano Fradera^{1,2}

¹Universitat De Barcelona, Barcelona, Spain, ²Universitat de Barcelona Institute of Complex Systems (UBICS), Barcelona, Spain, ³Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, Barcelona, Spain, ⁴Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁵Institute of Neuroscience, University of Barcelona, Barcelona, Spain, ⁶Hospital Universitari de Bellvitge, Barcelona, Barcelona, ⁷Institute for Research in Biomedicine (IRB), Barcelona, Barcelona

PS5-57

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

Mr. Daniel Esteve¹, **Ms. Artemis Ftara¹**, Dr. Paloma Monllor¹, Ms Mariana Nepomuceno¹, Dr Jose Viña¹, Dr Ana Lloret¹

¹University Of Valencia, Valencia, Spain

PS5-58

Oxidative damage in middle-aged apolipoprotein E4 carriers

Ms. Mariana Nepomuceno¹, Dr. Paloma Monllor¹, **Ms. Artemis Ftara¹**, Mr Daniel Esteve¹, Dr Jose Viña¹, Dr Ana Lloret¹

¹University Of Valencia, Valencia, Spain

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.

Dr. Fernando Josa-Prado¹, Yara Lackousha¹, Carlota Tosat-Bitrián², Ignacio Prieto-Mauricio¹, Óscar Gutiérrez-Jiménez², Dr. Martínez Ana², Dr. Valle Palomo², Dr. Fernando de Castro¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Centro de Investigaciones Biológicas Margarita Salas - CSIC, Madrid, Madrid



PS5-60

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

Camille Guillard Sirieix¹, Jordi Romero-Giménez¹, Thais Cuadros¹, Annabelle Parent¹, Ariadna Laguna¹, Miquel Vila^{1,2,3}

¹Vall d'Hebron Research Institute (VHIR)-Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain, ²Autonomous University of Barcelona, Cerdanyola del Vallès, Barcelona, Spain, ³Catalan Institution for Research and Advanced Studies (ICREA), , Spain

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

Mr. Emilio Llanos-González¹, Dr. Francisco J. Sancho Bielsa¹, Dr. Eduardo Chicano², Dr. Gabriel F. Calvo³, Mr. David G. Aragonés³, Dr. Yoana Rabanal-Ruiz¹, Dr. Cristina Pedrero-Prieto¹, Dr. Sonia García-Carpintero¹, Dr. Javier Frontiñán-Rubio¹, Dr. Lydia Giménez-Llort⁴, Dr. Juan Ramón Peinado¹, Dr. Francisco Javier Alcaín¹, Dr. Mario Durán-Prado¹

¹GEON, Faculty of Medicine of Ciudad Real/CRIB, Ciudad Real, Spain, ²IMIBIC, Proteomic Unit, Maimonides Biomedical Research Institute of Cordoba, Cordoba , Spain, ³MOLAB, University of Castilla-La Mancha, Ciudad Real, Spain, ⁴Institut of Neurosciences, Faculty of Medicine, UAB, Barcelona , Spain

PS5-62

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

Ms. Alba Nicolau-Vera¹, Ms. Thais Cuadros¹, Mr. Jordi Romero-Giménez¹, Ms. Annabelle Parent¹, Ms. Ariadna Laguna¹, Mr. Miquel Vila^{1,2,3}

¹Vall d'Hebron Research Institute (VHIR)-Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain, ²Autonomous University of Barcelona (UAB), Cerdanyola del Vallès, Spain, ³Catalan Institution for Research and Advanced Studies (ICREA) , Barcelona, Spain

PS5-63

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

Ms. Irene Durá^{1,2}, Dr. Joanna Danielewicz¹, Mr. Pierre Mortessagne⁴, Ms Tatiana Gallego-Flores¹, Dr Soraya Martín-Suárez¹, Dr Fanny Farrugia⁴, Dr Djoher Nora Abrous⁴, Dr Emilie Pacary⁴, Dr Juan Manuel Encinas^{1,2,3}

¹Acucharro Basque Center For Neuroscience, Leioa, España, ²University of the Basque Country, Leioa, Spain, ³IKERBASQUE, The Basque Center Foundation, Bilbao, Spain, ⁴Neurocentre Magendie, Bordeaux, France



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-Benítez⁶, Mr Borja Sanz-Peña⁶, 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}

¹University of Cádiz (Neuroscience), Cádiz, Spain, ²Instituto de Investigación e Innovación Biomédica de Cádiz, INIBICA, Hospital Universitario Puerta del Mar, Cádiz, Spain, ³Hospital Universitario de Jerez (UGC Mental Health), Servicio Andaluz de Salud, Spain, ⁴University of Cádiz (Psychology), Cádiz, Spain, ⁵Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Instituto de Salud Carlos III, Madrid, Spain, ⁶Hospital Universitario Puerta del Mar (UGC Neurosurgery), Servicio Andaluz de Salud, Cádiz, Spain, ⁷Hospital Universitario de Jerez (UGC Critical Care), Servicio Andaluz de Salud, Spain

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}

¹School of Pharmacy, University Of Castilla-la Mancha, Albacete, Spain, ²Faculty of Medicine, University of Castilla-La Mancha, Albacete, Spain, ³Regional Center for Biomedical Research. University of Castilla-La Mancha, Albacete, Spain, ⁴Research Group: Cellular Neuroanatomy and Molecular Chemistry of the Central Nervous System, Albacete, Spain

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 Boveda¹, Irene Serra-Hueto¹, Adela Orellana^{2,3}, Marta Navarrete¹, Rosario Moratalla^{1,2}, Agustín Ruiz^{2,3}, Carlos Vicario^{1,2}

¹Instituto Cajal-CSIC, Madrid, Spain, ²CIBERNED-ISCIII, Madrid, Spain, ³Fundació ACE-Barcelona Alzheimer Treatment and Research Center, Barcelona, Spain

PS5-67

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

Dr. Juan Castilla Silgado¹, Dra. Antía Reguera Acuña², Dra. Carmen Martínez Rodríguez³, Dr. Sergio Pérez Oliveira², Dra. María Daniela Corte Torres⁴, Dr. Manuel Menéndez González^{1,2,4}, Dra. Victoria Álvarez Martínez^{2,4}, Dra. Cristina Tomás Zapico^{1,4}

¹Universidad De Oviedo, Oviedo, Spain, ²Hospital Universitario Central de Asturias, Oviedo, Spain, ³Hospital Universitario de Cabueñes, Gijón, España, ⁴Instituto de Investigación Sanitaria del Principado de Asturias (ISPA), Oviedo, España

PS5-68

Gene-Regulatory Dynamics of Microglia States during Neuroinflammation



Carmen M. Navarron-Izquierdo¹, Aysha M. Bhojwani-Cabrera¹, Angel Marquez-Galera¹, Sergio Niñerola¹, Lorenza Magno², Manso Y^{3,4}, Alba del Valle Vílchez^{3,4}, José V. Sánchez-Mut¹, Tammarny Lashley^{5,6}, Ángel Barco¹, **Eduardo Soriano^{3,4}**, Paul J. Whiting^{2,7}, José P. López Atalaya¹

¹Instituto de Neurociencias, Universidad Miguel Hernández-Consejo Superior de Investigaciones, Alicante, Spain, ²Alzheimer's Research UK (ARUK) UCL Drug Discovery Institute (DDI), University College, London, UK, ³Department of Cell Biology, Physiology and Immunology, University of Barcelona, Barcelona, Spain, ⁴Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁵Queen Square Brain Bank for Neurological Disorders, Department of Clinical and Movement, London, UK, ⁶Department of Neurodegenerative Disease, Queen Square Institute of Neurology, University, London, United Kingdom, ⁷UK Dementia Research Institute at University College London, London, United Kingdom

PS5-69

MiR-138 as a restorative therapy for spinal cord injury

Dr. M. Asunción Barreda-Manso¹, Dr. David Reigada¹, Dr. Manuel Nieto-Díaz¹, Dr. Teresa Muñoz-Galdeano¹, Altea Soto¹, Dr. Rodrigo M. Maza¹

¹Hospital Nacional De Paraplégicos (SESCAM), Toledo, Spain

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-Llario¹, María Rodríguez-Zapata¹, Teresa Fontán¹, Esther Gramage¹, Marta Vicente-Rodríguez¹, Carmen Pérez-García¹, José María Zapico¹, Ana Ramos¹, Beatriz de Pascual-Teresa¹, Prof. Gonzalo Herradón¹

¹Facultad de Farmacia. Universidad San Pablo CEU, Madrid, Spain

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 García-Forn^{1,2,3}, Dr. Jordi Creus-Muncunill^{1,2,3}, Lluís Salvador^{1,2,3}, Dr. Esther Pérez-Navarro^{1,2,3}

¹Facultat de Medicina i Ciències de la Salut, Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain

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 García-Partida^{2,3,4}, Mr Juan Antonio Mico^{2,3,4}, Ms Esther Berrocoso^{1,2,4}

¹University of Cádiz (Psychology), Cádiz, Spain, ²Instituto de Investigación e Innovación Biomédica de Cádiz, Hospital Universitario Puerta del Mar, Cádiz, Spain, ³University of Cádiz (Neuroscience), Cádiz, Spain, ⁴Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Instituto de Salud Carlos III, Madrid, Spain

PS5-75

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

Ms. Altea Soto¹, Dr. Manuel Nieto-Díaz¹, Dr. M. Asunción Barreda-Manso¹, Dr. Teresa Muñoz-Galdeano¹, Dr. David Reigada¹, Dr. Rodrigo M. Maza¹

¹Hospital Nacional de Paraplégicos (SESCAM), Toledo, Spain

PS5-76

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

Dr. Manuel Nieto-Díaz¹, Nadia Ibañez Barranco¹, Dr. David Reigada¹, Dr. M. Asunción Barreda-Manso¹, Ms. Altea Soto¹, Dr. Teresa Muñoz-Galdeano¹, Dr. Rodrigo M. Maza¹

¹Hospital Nacional de Paraplégicos (SESCAM), Toledo, Spain

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 Giral^{1,2,3}

¹Universitat De Barcelona, Barcelona, Spain, ²IDIBAPS, Barcelona, Spain, ³CIBERNED, Madrid, Spain, ⁴Inserm, Paris, France,

⁵Université Pierre & Marie Curie, Paris, France, ⁶Institut du Fer a Moulin, Paris, France

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 Dumoulin³, Dr. Rosario Moratalla^{1,2}

¹Instituto Cajal (CSIC), Madrid, Spain, ²CIBERNED, Instituto de Salud Carlos III, Madrid, Spain, ³Centre of Protein Engineering, InBios, University of Liege, Liège, Belgium

PS5-79

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



Mr. David Mata-Marín¹

¹HM CINAC. Centro Integral de Neurociencias AC. HM Hospitales, Móstoles, Spain, ²Network Center for Biomedical Research on Neurodegenerative Diseases (CIBERNED), Instituto Carlos III, Madrid, Spain, ³PhD Program in Neuroscience, Autónoma de Madrid University, Madrid, Spain

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 Venturi⁴, Ms Lorena Pantano⁵, Ms Georgia Escaramís^{1,6}, Ms Marta García de Herrerros^{1,2,3}, Ms Maria Solaguren-Beascoa¹, Ms Ana Gámez-Valero¹, Ms Cristina Navarrete⁴, 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}

¹Departament de Biomedicina, Facultat de Medicina i Ciències de la Salut, Institut de Neurociències, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Barcelona, Spain, ⁴Department of Neurology, Icahn School of Medicine at Mount Sinai, New York, USA, ⁵Centre for Genomic Regulation (CRG), The Barcelona Institute for Science and Technology, Barcelona, Spain, ⁶Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston, USA, ⁷Centro de Investigación Biomédica en Red sobre Epidemiología y Salud Pública (CIBERESP), Barcelona, Spain, ⁸Bellvitge Biomedical Research Institute (IDIBELL), L'Hospitalet de Llobregat, Spain, ⁹Department of Neurology, National Reference Center for CJD Surveillance, University Medical Center Göttingen, Göttingen, Germany

PS5-82

Cortical and hippocampal rhythmopathies in experimental models of brain metastasis

Dr. Alberto Sanchez-Aguilera¹, Dr. Mariam Masmudi-Martín², Dr. Andrea Navas-Olivé¹, Dr. Manuel Valiente², Dr. Liset Menéndez de la Prida¹

¹Instituto Cajal - CSIC, Madrid, Spain, ²Centro Nacional de Investigaciones Oncológicas, Madrid, Spain

PS5-83

From engrams to memory pathology in Down syndrome

Mr. Álvaro Fernández-Blanco¹, Dr. Alfonso Zamora-Moratalla¹, Dr. Mara Dierssen¹

¹Centre For Genomic Regulation (CRG), The Barcelona Institute of Science and Technology (BIST), Barcelona, Spain

PS5-84

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

Dr. Marta Guerrero-Valero¹, Jaime Mulero Franco¹, Dr. Fernando de Castro², M.D. Ledesma¹

¹Centro De Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, Spain, ²Instituto Cajal (CSIC), Madrid, Spain



PS5-85

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

Ms. Melania González Rodríguez¹, Ms. Veronica Astillero-Lopez¹, Ms. Sandra Villar-Conde¹, Ms. Patricia Villanueva-Anguila¹, Dr. Isabel Ubeda-Banon¹, Dr. Alicia Flores-Cuadrado¹, Prof. Alino Martinez-Marcos¹, Dr. Daniel Saiz-Sanchez¹

¹Ciudad Real Medical School/CRIB, University of Castilla La-Mancha, Ciudad Real, Spain

PS5-86

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

Beatriz Fernández-Gómez^{1,2}, Paula Gómez-Martín¹, David Piñeiro², Macarena Hernández-Jiménez², Fernando de Castro¹

¹Cajal Institute, Madrid, Spain, ²Aptatargets. S.L, Madrid, Spain

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 Imaz¹

¹Achucarro Basque Center for Neuroscience, Leioa, Spain, ²Ikerbasque, Bilbao, Spain, ³University of the Basque Country, Leioa, Spain

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 Carmeliet⁴, Dr. Angeles Almeida^{1,2}, Prof. Juan P Bolaños^{1,2,3}

¹Institute of Functional Biology and Genomics, University of Salamanca, CSIC, Salamanca, Spain, ²Institute of Biomedical Research of Salamanca, University Hospital of Salamanca, Salamanca, Spain, ³CIBERFES, Instituto de Salud Carlos III, Madrid, Spain, ⁴Vesalius Research Center, Leuven, Belgium

PS5-89

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



Dr. Alain De Solis¹, Dr. Jan Radermacher², Almudena Del Rio-Martin¹, Dr. Paul Klemm¹, Dr. Anna-Lena Cremer¹, Dr. Heiko Backes¹, Dr. Peter Kloppenburg², Prof. Jens C. Bruning¹

¹Max Planck Institute for Metabolism Research, Department of Neuronal Control of Metabolism, Cologne; and Excellence Cluster on Cellular Stress Responses in Aging Associated Diseases (CECAD) and Center of Molecular Medicine Cologne (CMMC), University of Cologne, Cologne, Germany, Cologne, Germany, ²Excellence Cluster on Cellular Stress Responses in Aging Associated Diseases (CECAD) and Center of Molecular Medicine Cologne (CMMC); and Institute for Zoology, Biocenter, University of Cologne, Cologne, Germany, Cologne, Germany

PS5-90

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

Altea Soto¹, Dr. Manuel Nieto-Díaz¹, Dr. David Reigada¹, Dr. M^a Asunción Barreda-Manso¹, Dr. Teresa Muñoz-Galdeano¹, Dr. Ramón Eritja², Dr. Ana Aviñó², Dr. Helmut Reinecke³, Dr. Carlos Elvira³, Dr. Enrique Martínez³, Dr. Alberto Gallardo³, Dr. Juan Rodríguez³, Dr. Paula Bosch³, Dr. Rodrigo M. Maza¹

¹Hospital Nacional De Paraplégicos (SESCAM), Toledo, Spain, ²Instituto de Química Avanzada de Cataluña (CSIC), Barcelona, Spain, ³Instituto de Ciencia y Tecnología de Polímeros (CSIC), Madrid, Spain

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}

¹Achucarro Basque Center for Neuroscience, Leioa, Spain, ²University of the Basque Country (UPV/EHU), Leioa, Spain, ³IKERBASQUE, The Basque Science Foundation, Bilbao, Spain

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 Soriano⁴, Deniz Dalkara⁵, Andreas Möglich⁶, Jordi Alberch^{1,2,3}, Mercè Masana^{1,2,3}

¹Institute of Neurosciences, Universitat de Barcelona, Barcelona, Spain, ²Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, ³Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, ⁴Universitat de Barcelona, Barcelona, Spain, ⁵Sorbonne Université, INSERM, CNRS, Institut de la Vision, Paris, France, ⁶Universität Bayreuth, Bayreuth, Germany

PS5-93

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

Dr. Soraya Martín-Suárez¹, Dr Paolo Bonifazi¹

¹Biocruces Bizkaia Health Research Institute, Barakaldo, Spain



PS5-94

Experimental and modeling study of near infrared-laser stimulation in single and electrically coupled neurons**Ms. Alicia Garrido-Peña¹**, Dr. Rafael Levi¹, Dr. Javier Castilla², Dr. Jesús Tornero², Dr. Pablo Varona¹¹Universidad Autónoma De Madrid, Madrid, Spain, ²Unidad Avanzada de Neurorrehabilitación. Hospital Los Madroños, Brunete, Spain

PS5-95

Gene variants involved in the glutamate and calcium pathway in the epileptic model hamster GASH/Sal.Ms. Sandra M. Díaz-Rodríguez^{1,3}, PhD Jose M. Matías-Pereda², Phd Ricardo J. Gómez-Nieto^{1,2}, Phd Javier M. Herrero-Turrión^{1,4}, **Phd María Dolores López-García^{1,3}**¹Research center in neurosciences of Castilla y León, Salamanca, España, ²Institute of Molecular and Cellular Biology of Cancer (IBMCC), Salamanca, España, ³Institute of Biomedical Research of Salamanca, Spain., Salamanca, España, ⁴INCYL Neurological Tissue Bank (BTN-INCYL), Salamanca, España

PS5-96

Sex differences of acute and chronic administration of cannabidiol in the genetically audiogenic seizure-prone hamster GASH/SalMs. Giselda Eunice Cabral-Pereira^{1,2}, Dra. María Consuelo Sancho Sánchez^{1,2}, Dr. Luis J. Muñoz³, Dr. Ricardo Gómez-Nieto^{1,2}, Dra. M^ª. Dolores E. López García^{1,2}, **Dr. David Sánchez Benito^{1,2}**¹Institute of Neuroscience of Castilla y León (INCYL), Salamanca, Spain, ²Institute of Biomedical Research of Salamanca (IBSAL), Salamanca, Spain, ³Animal Research Service, Salamanca, Spain



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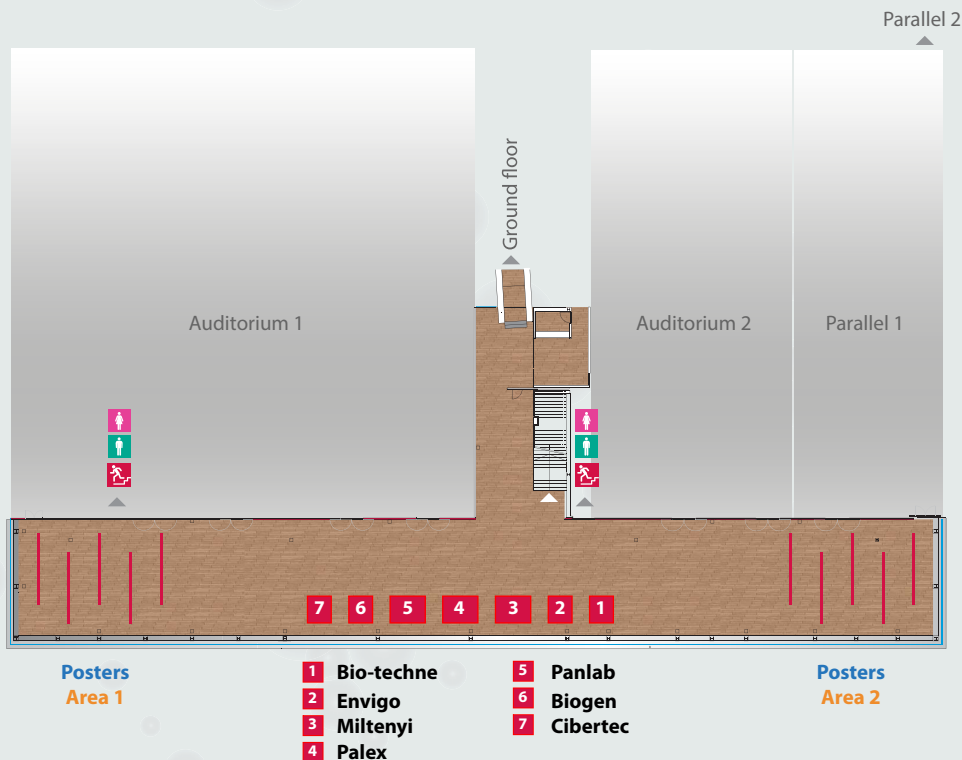


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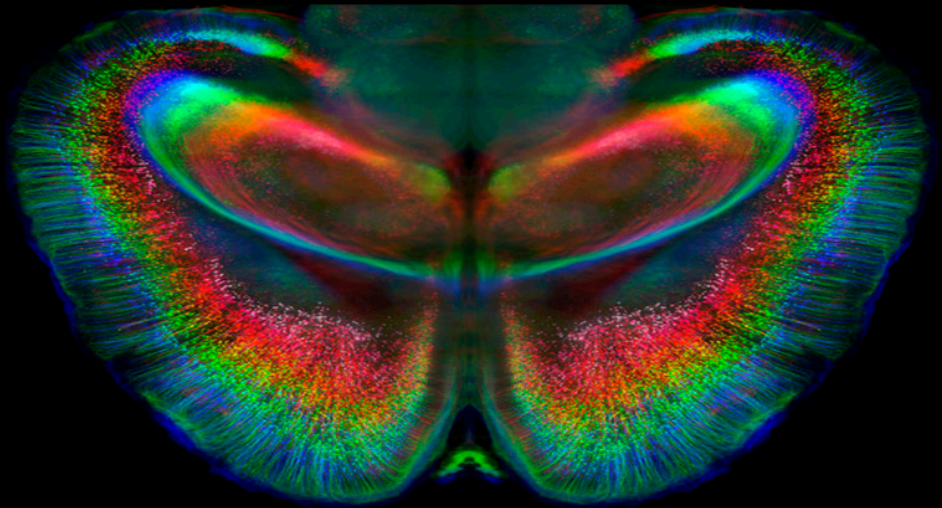
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