



**Poster Session 4: Friday, 5th November, from 09:00 to 12:30, Exhibition Hall.**

PS4-01

**Dispersion and fate of pallial progenitors within the adult forebrain**

**Edwards Antonio Cabrera**<sup>1</sup>, Rebeca Sánchez-González<sup>1,2</sup>, Ana Cristina Ojalvo-Sanz<sup>1,2</sup>, Sonsoles Barriola<sup>1,2</sup>, Laura López Mascaraque<sup>1</sup>

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PS4-02

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

**Mr. David de Agustín-Durán**<sup>1</sup>, Ms. Alba Marín-Garnes<sup>1</sup>, Ms. Ana Pérez-Villalba<sup>2</sup>, Ms. Isabel Mateos-White<sup>1</sup>, Mr. Jaime Fabra-Beser<sup>1</sup>, Dra. Cristina Gil-Sanz<sup>1</sup>

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PS4-03

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

**Ms. Iris Juárez-Leal**<sup>1</sup>, Ms. Estefanía Carretero-Rodríguez<sup>2</sup>, Ms. Francisca Almagro-García<sup>1</sup>, Prof. Salvador Martínez<sup>1</sup>, Dr. Diego Echevarría<sup>1</sup>, Dr. Eduardo Puelles<sup>1</sup>

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PS4-04

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

**Cristina Medina Menéndez**<sup>1</sup>, Lingling Li<sup>1</sup>, María Valdés<sup>1</sup>, Rafael López-Sansegundo<sup>1</sup>, Inés Colmena<sup>1</sup>, Véronique Lefebvre<sup>2</sup>, Aixa V. Morales<sup>1</sup>

<sup>1</sup>Cajal Institute, Madrid, Spain, <sup>2</sup>Children'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-Climent**<sup>1</sup>, Dr. Abraham Andreu-Cervera<sup>1</sup>, Ms. Raquel Murcia-Ramón<sup>1</sup>, Dr. Diego Echevarría<sup>1</sup>, Prof. Salvador Martínez<sup>1</sup>, Prof. Emilio Geijo-Barrientos<sup>1</sup>

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PS4-06

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

**Ms. Ana María Jiménez<sup>1</sup>**, Dr. Abraham Andreu-Cervera<sup>1</sup>, Ms. Francisca Almagro-García<sup>1</sup>, Dr. Eduardo Puelles<sup>1</sup>, Dr. Diego Echevarría<sup>1</sup>, Prof. Emilio Geijo-Barrientos<sup>1</sup>, Prof. Salvador Martínez<sup>1</sup>

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PS4-07

**Cerebellar abnormalities in a conditional mouse mutant of the Lis1 gene**

**Dr. Abraham Andreu-Cervera<sup>1</sup>**, Ms. Ana María Jiménez<sup>1</sup>, Ms. Mar Azorín<sup>1</sup>, Ms. Francisca Almagro-García<sup>1</sup>, Dr. Eduardo Puelles<sup>1</sup>, Dr. Diego Echevarría<sup>1</sup>, Prof. Emilio Geijo-Barrientos<sup>1</sup>, Prof. Salvador Martínez<sup>1</sup>

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PS4-08

**Cerebral cortex development is coordinated by mitochondrial reactive oxygen species**

**Ms. Regina Mengual<sup>1,2</sup>**, Dr. Cristina Rodríguez<sup>1,2</sup>, Dr. Verónica Bobo-Jiménez<sup>1,2</sup>, Dr. María Delgado-Esteban<sup>1,2</sup>, Prof. Juan Pedro Bolaños<sup>1,2,3</sup>, Dr. Angeles Almeida<sup>1,2</sup>

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PS4-09

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

**Ms. Alicia Alonso-Andres<sup>1</sup>**, Dr. Oliver Crawley<sup>1</sup>, Ms. Ana Isabel Navarro<sup>1</sup>, Dr. John F. Wesseling<sup>1</sup>, Dr. Isabel Pérez-Otaño<sup>1</sup>, Dr. Ramon Reig<sup>1</sup>

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PS4-10

**In vitro study of neurodevelopment in Huntington's disease**

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

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PS4-11

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

Ms. Lorena Bragg-Gonzalo<sup>1</sup>, Dr. Marta Nieto<sup>1</sup>

<sup>1</sup>Centro Nacional De Biotecnología, Madrid, Spain

PS4-12

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

Aníbal Sánchez-de la Torre<sup>1,2,3</sup>, Tania Aguado<sup>1,2,3</sup>, Alba Huerga-Gómez<sup>1,2,3</sup>, Juan Carlos Chara<sup>4,5</sup>, Krisztina Monory<sup>6</sup>, Carlos Matute<sup>4,5</sup>, Beat Lutz<sup>6</sup>, Susana Mato<sup>4,5</sup>, Manuel Guzman<sup>1,2,3</sup>, Ismael Galve-Roperh<sup>1,2,3</sup>, Javier Palazuelos<sup>1,2,3</sup>

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PS4-13

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

Ms. Alice Staffa<sup>1</sup>, Dr. Juan Carlos Chara Ventura<sup>2</sup>, Dr. Carlos Matute<sup>2</sup>, Dr. Isabel Perez-Otaño<sup>1</sup>

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PS4-14

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

Dr. Souhail Djebbari<sup>1</sup>, Dr. Sara Temprano-Carazo<sup>1</sup>, Dr. Irene Sánchez-Rodríguez<sup>1</sup>, Mr. Guillermo Iborra-Lázaro<sup>1</sup>, Dr. Agnès Gruart<sup>2</sup>, Dr. José M. Delgado-García<sup>2</sup>, Dr. Lydia Jiménez-Díaz<sup>1</sup>, Dr. Juan D. Navarro-López<sup>1</sup>

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PS4-15

## Morphological Characterization of the Whale Retina

Dr. Noelia Ruzafa<sup>1</sup>, Dr. Xandra Pereiro<sup>1</sup>, Prof. Elena Vecino<sup>1</sup>

<sup>1</sup>University of Basque Country UPV/EHU, Leioa, Spain



PS4-16

## Characterization of Primary and Immortalized Whale Müller Glial Cells

PhD Xandra Pereiro<sup>1</sup>, Ms Sandra Beriain<sup>1</sup>, Ms Lara Rodriguez<sup>1</sup>, PhD Noelia Ruzafa<sup>1</sup>, Mr David Roiz-Valle<sup>2</sup>, PhD Jose-MP Freije<sup>2</sup>, Prof. Elena Vecino<sup>1</sup>

<sup>1</sup>University of Basque Country UPV/EHU, Leioa, Spain, <sup>2</sup>University 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 Gramuntell<sup>1</sup>, Ms. Patrycja Klimczak<sup>1</sup>, Dr. Simona Coviello<sup>1</sup>, Mr. Marc Beltran<sup>1</sup>, Prof. Juan Nacher<sup>1,2,3</sup>

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PS4-18

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

Mr. Sergio Niñerola<sup>1</sup>, Dra. Beatriz Del Blanco<sup>1</sup>, Dr. Michal Lipinski<sup>1</sup>, Dr. Jose Pascual Lopez-Atalaya<sup>1</sup>, Dr. Angel Barco<sup>1</sup>

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PS4-19

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

Ms. Anna del Ser-Badia<sup>1</sup>, Dr. Arnaldo Parra-Damas<sup>1</sup>, Dr. Lilian Enríquez-Barreto<sup>1</sup>, Mr. José Prius-Mengual<sup>2</sup>, Dr. José Rodríguez-Alvarez<sup>1</sup>, Dr. Antonio Rodríguez-Moreno<sup>2</sup>, Dr. Carlos Alberto Saura<sup>1</sup>

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PS4-20

## Aging entails motoneuron deafferentation and neuroinflammation in the mouse spinal cord

Ms. Sílvia Gras<sup>1</sup>, Ms. Alba Blasco<sup>1</sup>, Dr. Guillem Mòdol-Caballero<sup>2</sup>, Dr. Olga Tarabal<sup>1</sup>, Dr. Anna Casanovas<sup>1</sup>, Ms. Lúcia Piedrafita<sup>1</sup>, Dr. Alejandro Barranco<sup>3</sup>, Dr. Tapas Das<sup>4</sup>, Ms. Sara Salvany<sup>1</sup>, Ms. Alaó Gatiús<sup>1</sup>, Dr. Suzette L. Pereira<sup>4</sup>, Prof. Xavier Navarro<sup>2</sup>, Dr. Ricardo Rueda<sup>3</sup>, Prof. Josep Enric Esquerda<sup>1</sup>, Prof. Jordi Calderó<sup>1</sup>

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PS4-21

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

Ms. Alaó Gatius<sup>1</sup>, Mr. Pol Garcia-Segura<sup>1</sup>, Dr. Olga Tarabal<sup>1</sup>, Ms. Paula Cayuela<sup>1</sup>, Dr. Ana Garcerá<sup>1</sup>, Dr. Anna Casanovas<sup>1</sup>, Ms. Sara Salvany<sup>1</sup>, Ms. Sílvia Gras<sup>1</sup>, Ms. Alba Blasco<sup>1</sup>, Ms. Lúdia Piedrafita<sup>1</sup>, Dr. Sara Hernández<sup>1</sup>, Dr. Rosa Maria Soler<sup>1</sup>, Prof. Josep Enric Esquerda<sup>1</sup>, Prof. Jordi Calderó<sup>1</sup>

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PS4-22

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

Noelia Rodríguez-Iglesias<sup>1,2</sup>, Dr Agnès Nadjar<sup>3</sup>, Dr Amanda Sierra<sup>1,2,4</sup>, Dr. Jorge Valero<sup>5,6,7</sup>

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Salamanca, , Spain, <sup>7</sup>University 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 Salvany<sup>1</sup>, Dr. Anna Casanovas<sup>1</sup>, Ms. Lúdia Piedrafita<sup>1</sup>, Ms. Sílvia Gras<sup>1</sup>, Ms. Alaó Gatius<sup>1</sup>, Ms. Alba Blasco<sup>1</sup>, Dr. Olga Tarabal<sup>1</sup>, Dr. Sara Hernández<sup>1</sup>, Prof. Jordi Calderó<sup>1</sup>, Prof. Josep E. Esquerda<sup>1</sup>

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PS4-24

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

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

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PS4-25

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

Teresa Muro-García<sup>1,2</sup>, Leire Boveda-Altube<sup>1,2</sup>, Dr. Juan Manuel Encinas<sup>1,2,3</sup>

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PS4-26

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

Ms. Laura De las Heras-García<sup>1</sup>, Dr. Olatz Pampliega<sup>1,2</sup>

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PS4-27

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

Dr. Santiago López-Begines<sup>1</sup>, Ms. Ángela Lavado-Roldán<sup>1</sup>, Dr. Fabiola Mavillard Saborido<sup>1</sup>, Ms. Fátima Rubio-Pastor<sup>1</sup>, Ms. Vera Wiersma<sup>2</sup>, Ms. Wiep Scheper<sup>2</sup>, Prof. Rafael Fernández-Chacón<sup>1</sup>

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PS4-28

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

Ms. Cristina Mesa-Cruz<sup>1</sup>, Dr. José Luis Nieto-González<sup>1</sup>, Prof. Rafael Fernández-Chacón<sup>1</sup>

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PS4-29

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

Ms. Fátima Rubio-Pastor<sup>1</sup>, Dr. Santiago López-Begines<sup>1</sup>, Prof. Rafael Fernández-Chacón<sup>1</sup>

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PS4-30

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



**Ms. Cristina Martín-Monteagudo**<sup>1</sup>, Mr. Julio Esparza<sup>1</sup>, Ms. Irene Serra<sup>1</sup>, Dr Nagore Puentes<sup>2</sup>, Dr. Pedro Grandes<sup>2</sup>, Dr Marta Navarrete<sup>1</sup>

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PS4-31

## A critical period for the itch spinal cord neural circuit?

**Dr. Augusto Escalante**<sup>1</sup>, Prof. Dr. Eloísa Herrera<sup>1</sup>

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PS4-32

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

**Prof. Juan Carlos López-Ramos**<sup>1</sup>, Prof. José María Delgado-García<sup>1</sup>

<sup>1</sup>Universidad Pablo de Olavide, Sevilla, Spain

PS4-33

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

**Ms. Laura Carrillo-Franco**<sup>1</sup>, Mr. Manuel Victor Lopez-Gonzalez<sup>1,2,3</sup>, Ms. Marta Gonzalez-Garcia<sup>1,2,3</sup>, Ms. Amelia Diaz-Casares<sup>1,2,3</sup>, Dr. Marc Stefan Dawid-Milner<sup>1,2,3</sup>

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PS4-34

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

**Ms. Isabel Pérez-Santos**<sup>1</sup>, Dr. Nicola Palomero-Gallagher<sup>2,3,4</sup>, Dr. Karl Zilles<sup>2,4,5</sup>, Dr. Carmen Cavada<sup>1</sup>

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PS4-35

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

**Mr. Mario Gómez-Martínez**<sup>1,2,3</sup>, Mr. Héctor Rincón<sup>2,3,4</sup>, Dr. Marcelo Gómez-Álvarez<sup>1,2,3</sup>, Dr. Ricardo Gómez-Nieto<sup>1,2,3</sup>, Prof. Enrique Saldaña<sup>1,2,3</sup>



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PS4-36

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

Jesús Pardo-Valencia<sup>1,2</sup>, Carla Fernández-García<sup>3</sup>, Fernando Alonso-Frech<sup>3</sup>, Guglielmo Foffani<sup>1,4</sup>

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PS4-37

## SECRETAGOGIN EXPRESSION IN THE MOUSE BRAIN

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

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PS4-38

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

Dr. Víctor J. López-madrona<sup>1</sup>, Prof. Agnès Trébuchon<sup>2,3</sup>, Dr. Andrei Barborica<sup>4</sup>, Dr. Serge Vulliémot<sup>5</sup>, Prof. Fabrice Bartolomei<sup>1,2</sup>, Dr. F. Xavier Alario<sup>6</sup>, Dr. Christian G. Bénar<sup>1</sup>

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PS4-39

## Chronic sensory deprivation alters cortical rhythms in the somatosensory cortex

Ms. Marta Zaforas<sup>1</sup>, Ms. Elena Alonso-Calviño<sup>1</sup>, Ms. Elena Fernández-López<sup>1</sup>, Ms. Claudia Miguel-Quesada<sup>1</sup>, Dr. Antonio Oliviero<sup>1</sup>, Dra. Juliana M Rosa<sup>1</sup>, Dr. Juan Aguilar<sup>1</sup>

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PS4-40

## Investigating the role of auditory cortex on decisions about sound lateralization

Ms. Ana Mafalda Valente<sup>1</sup>, Mr. Juan Castiñeiras de Saa<sup>1</sup>, Dr. Alfonso Renart<sup>1</sup>

<sup>1</sup>Champalimaud Research, Lisbon, Portugal

PS4-41

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

Ms. Paula Peixoto-Moledo<sup>1</sup>, MD, PhD Josep Dalmau<sup>1,2,3,4</sup>, PhD Pablo Jercog<sup>1</sup>

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PS4-42

## Inhibition in a midbrain circuit controlling instinctive escape decisions

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PS4-43

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

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PS4-44

## Perceptual decisions results from the accumulation of unpredicted sensory evidence

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PS4-45

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

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PS4-46

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

Mr. Óscar Elía-Zudaire<sup>1</sup>, Ms. María José Conde-Dusman<sup>1,2,3</sup>, Dr. Luis García-Rabaneda<sup>1,4</sup>, Ms. Carmen García-Lira<sup>1</sup>, Prof. Isabel Perez-Otaño<sup>1</sup>

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PS4-47

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

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PS4-48

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

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PS4-49

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

Mr. Jose Manuel Hernandez Curiel<sup>1</sup>, Dr. Ángel Manuel Carrión Rodríguez<sup>1</sup>

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PS4-50

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

Dr. Demetrio Ferro<sup>1,2</sup>, Anna Rifé Mata<sup>1,2</sup>, Tyler Cash-Padgett<sup>3</sup>, Maya Z. Wang<sup>3</sup>, Prof. Benjamin Hayden<sup>3</sup>, Prof. Rubén Moreno Bote<sup>1,2</sup>

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PS4-51

**Behavioral mechanisms underlying visually-guided control of steering**

**Mr. Jorge Ramírez-Ruiz**<sup>1</sup>, PhD Akiyuki Anzai<sup>2</sup>, PhD Jan Drugowitsch<sup>3</sup>, PhD Gregory DeAngelis<sup>2</sup>, PhD Rubén Moreno-Bote<sup>1,4,5</sup>

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PS4-52

**A novel visuospatial working memory task in mice**

**Ms. Balma Serrano-Porcar**<sup>1</sup>, Ms. Eva Carrillo<sup>1</sup>, Mr. Rafael Marín<sup>1</sup>, Ms Anna Graell<sup>1</sup>, Ms Tiffany Ona-Jodar<sup>1</sup>, Mr Josep Dalmau<sup>1,2,3</sup>, Mr Albert Compte<sup>1</sup>, Mr Jaime de la Rocha<sup>1</sup>

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PS4-53

**Mechanisms of post-stroke cognitive impairment: hippocampal involvement**

Ms. Cristina Torres-López<sup>1,2,3</sup>, Dr Juan De la Parra<sup>5</sup>, **Dr Maria Isabel Cuartero**<sup>1,2,3</sup>, Dr Alicia García-Culebras<sup>1,2,3</sup>, Ms Tania Jareño-Flores<sup>1,2</sup>, Dr Marina Benito<sup>6</sup>, Dr David Castejón<sup>2,4</sup>, Dr Encarnación Fernández-Valle<sup>2,4</sup>, Dr Juan Manuel García-Segura<sup>2,4</sup>, Dr Ignacio Lizasoain<sup>2,3,7</sup>, Dr María Ángeles Moro<sup>1,2,3,7</sup>

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PS4-54

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

Dr. Irene Navarro-Lobato<sup>1</sup>, Dr. Mariam Masmudi-Martín<sup>1</sup>, Ms. Maria del Rosario Gonzalez-Bermudez<sup>1</sup>, Ms. Marta Carretero-Rey<sup>1</sup>, **Dr. Zafar U. Khan**<sup>1</sup>

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PS4-55

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



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PS4-56

**EPILEPTIC SEIZURE PREDICTION WITH A LSTM NETWORK**

**Mr. Ángel Canal-Alonso<sup>1,2</sup>**, Dr. Roberto Casado-Vara<sup>1</sup>, Dr. Javier Prieto<sup>1,2</sup>, Prof. Juan Manuel Corchado<sup>1,3,4,5</sup>  
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PS4-57

**Bump attractor dynamics underlying stimulus integration in perceptual estimation tasks**

**Dr. Jose M. Esnaola-Acebes<sup>1,2</sup>**, Dr. Alex Roxin<sup>1,2</sup>, Dr. Klaus Wimmer<sup>1,2</sup>  
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PS4-58

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

**Ms. Sara Hernández-Recio<sup>1</sup>**, Dr. Daniel Torres<sup>1</sup>, Dr. Julia Makarova<sup>1</sup>, Dr. Oscar Herreras<sup>1</sup>  
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PS4-59

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

**Ms. Ened Rodríguez Urgellés<sup>1,2,3</sup>**, Mr. Ignacio del Castillo<sup>1,2,3</sup>, Dr Albert Giralt<sup>1,2,3</sup>, Dr Jordi Alberch<sup>1,2,3</sup>  
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PS4-60

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

**Ms. Patrycja Klimczak<sup>1</sup>**, Ms. Yaiza Gramuntell<sup>1</sup>, Ms. Arianna Rizzo<sup>1</sup>, Mr. Marc Beltran<sup>1</sup>, Ms. Aitana Vazquez<sup>1</sup>, Prof. Juan Nacher<sup>1,2,3</sup>



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PS4-61

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

**Ms. Júlia Alcaide<sup>1</sup>**, Dr. Clara Bueno-Fernandez<sup>1</sup>, Dr. Marta Perez-Rando<sup>1</sup>, Dr. Esther Castillo-Gómez<sup>2,3</sup>, Ms. Yaiza Gramuntell<sup>1</sup>, Mr. Marc Beltran<sup>1</sup>, Prof. Juan Nacher<sup>1,3,4</sup>

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PS4-62

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

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PS4-63

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

**Ms. Leticia López-Valencia<sup>1</sup>**, Ms. Berta Escudero<sup>1</sup>, Ms. Marta Moya<sup>1</sup>, Prof. Laura Orio<sup>1</sup>

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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 Moya<sup>1</sup>**, Ms. Berta Escudero<sup>1</sup>, Ms. Leticia López-Valencia<sup>1</sup>, Dr. Carmen Guerrero<sup>4</sup>, Ms. Elena Gómez Blázquez<sup>4</sup>, Prof. Meritxell López-Gallardo<sup>2</sup>, Prof. Borja García-Bueno<sup>2</sup>, Prof. Eva María Marco<sup>3</sup>, Prof. Laura Orio<sup>1</sup>

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PS4-65

**Non-motor symptoms and neuronal alterations in a comorbidity mice model of depression and Parkinson's disease****Mr. Adrian Sanz-Magro<sup>1,2</sup>**, Dr. Noelia Granado<sup>1,2</sup>, Mr. Manuel Márquez-Rivera<sup>1</sup>, Prof. Rosario Moratalla<sup>1,2</sup><sup>1</sup>Instituto Cajal, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain, <sup>2</sup>CIBERNED, 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-Tarrés<sup>1</sup>**, PhD Jérôme Leprince<sup>5</sup>, Ms. Anna Sancho-Balsells<sup>2,3,4</sup>, PhD Albert Giralt<sup>2,3,4</sup>, PhD Jordi Alberch<sup>2,3,4</sup>, PhD David Vaudry<sup>5</sup>, PhD Xavier Xifró<sup>1</sup><sup>1</sup>Universitat de Girona, Girona, Spain, <sup>2</sup>Universitat de Barcelona, Barcelona, Spain, <sup>3</sup>Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, <sup>4</sup>Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Madrid, Spain, <sup>5</sup>Université de Rouen, Normandie, France

PS4-67

**STEREOLOGICAL ANALYSIS OF NEURONS AND GLIA IN THE SUBICULAR COMPLEX IN ALZHEIMER'S DISEASE****Ms. Veronica Astillero-lopez<sup>1</sup>**, Ms. Sandra Villar-Conde<sup>1</sup>, Ms. Melania Gonzalez-Rodriguez<sup>1</sup>, Dr. Alicia Flores-Cuadrado<sup>1</sup>, Dr. Isabel Ubeda-Banon<sup>1</sup>, Prof. Alino Martinez-Marcos<sup>1</sup>, Dr. Daniel Saiz-Sanchez<sup>1</sup><sup>1</sup>Ciudad 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<sup>1,2</sup>**, Irene Sánchez-Morán<sup>2</sup>, Cristina Rodríguez<sup>1,2</sup>, Ángeles Almeida<sup>1,2</sup><sup>1</sup>Institute of Biomedical Research of Salamanca (IBSAL), University Hospital of Salamanca, University of Salamanca, CSIC, Salamanca, Spain, <sup>2</sup>Institute 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<sup>1,2,3</sup>**, Carlos Hernández-Pérez<sup>1,2,3</sup>, Pablo González Téllez de Meneses<sup>1,2,3</sup>, Dr. Eduardo Weruaga Prieto<sup>1,2,3</sup>, Dr. David Díaz López<sup>1,2,3</sup>, Dr. José Ramón Alonso Peña<sup>1,2,3</sup><sup>1</sup>University of Salamanca, Salamanca, Spain, <sup>2</sup>INCyL, Institute for Neuroscience of Castilla y León, Salamanca, Spain, <sup>3</sup>IBSAL, 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-Sanchez<sup>1</sup>**, Master student Gonzalo Garcia-Martin<sup>1</sup>, Master student Juan Escudero-Ramirez<sup>1</sup>, PhD Carolina Gonzalez-Riano<sup>2</sup>, Paz Lorenzo<sup>2</sup>, Dr. Alfredo Gimenez-Cassina<sup>1</sup>, Dr. Laura Formentini<sup>1</sup>, Dr. Pedro de la Villa-Polo<sup>3,4</sup>, Dr. Marta Pereira<sup>1</sup>, Dr. Francisco Wandosell<sup>1</sup>, **Dr. Beatriz Cubelos<sup>1</sup>**

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PS4-71

**Inflammation And Autophagy In Glycogen-Induced Neurodegeneration**

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

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PS4-72

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

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

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PS4-73

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

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

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PS4-74

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

**Ms Elva Martin-Batista<sup>1,2</sup>**, Mr Rian Manville<sup>3</sup>, Mr David Bartolome-Martin<sup>1,2</sup>, Ms Belinda Rivero<sup>1,2</sup>, Mr Geoffrey Abbott<sup>3</sup>, Mr Diego Alvarez de la Rosa<sup>1,2</sup>, Ms Teresa Giraldez<sup>1,2</sup>

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PS4-76

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

**Ms. Rebeca Martinez-Lazaro<sup>1,2</sup>**, Dr. David Bartolome-Martin<sup>1,2</sup>, Dr. Ricardo Gomez<sup>1,2</sup>, Dr. Teresa Giraldez<sup>1,2</sup>

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PS4-77

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

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PS4-78

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

**Dr. Sara Hernandez<sup>1</sup>**, Dr. Anna Casanovas<sup>1</sup>, Ms. Sara Salvany<sup>1</sup>, Dr. Olga Tarabal<sup>1</sup>, Ms. Alba Blasco<sup>1</sup>, Ms. Alaó Gatiús<sup>1</sup>, Ms. Silvia Gras<sup>1</sup>, Ms. Lidia Piedrafita<sup>1</sup>, Dr. Markus Schwab<sup>2</sup>, Dr. Jordi Calderó<sup>1</sup>, Dr. Josep Esquerda<sup>1</sup>

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PS4-79

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

**Ms. María Alfonso Triguero<sup>1,2</sup>**, **Mr. Joan Cruz Sesé<sup>1,2</sup>**, Ms Nuria Galbis Gramage<sup>1</sup>, Ms Isabel Jiménez Ridruejo<sup>1</sup>, Dr. Elena Alberdi Alfonso<sup>1,2,3</sup>, Dr. Amaia Arranz Mendiguren<sup>1,4</sup>

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PS4-80

**Three-dimensional synaptic organization of hippocampal CA1 stratum lacunosum-moleculare in Alzheimer's disease****Dr. Marta Montero Crespo<sup>1,2</sup>**, Prof. Javier De Felipe Oroquieta<sup>1,2,3</sup>, Dr. Lidia Blázquez Llorca<sup>1,2,4</sup>

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PS4-81

**The Gut-Brain Axis in a novel humanized transgenic mouse model for Parkinson's disease and brain aging****Ms. Marina Lorente Picón<sup>1</sup>**, Dr. Miquel Vila<sup>1,2,3</sup>, Dra. Ariadna Laguna<sup>1</sup>

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PS4-82

**Purification and characterization of hPSC-derived striatal progenitor subpopulations for transplantation in Huntington's Disease****Mr. Francisco J Molina Ruiz<sup>1,2,3,4,5</sup>**, Dr. Phil Sanders<sup>1,2,3,4,5</sup>, Ms. Cinta Gomis López<sup>1,2,3,4,5</sup>, Ms. Georgina Bombau Martínez<sup>1,2,3,4,5</sup>, Ms. Mireia Galofré Centelles<sup>1,2,3,4,5</sup>, Ms. Silvia Artigas Fernández<sup>1,2,3,4,5</sup>, Ms. Clelia Introna<sup>1,2,3,4,5</sup>, Ms. Verónica Monforte Pizarro<sup>1,2,3,4,5</sup>, Dr. Josep M Canals Coll<sup>1,2,3,4,5</sup>

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PS4-83

**Unravelling the distribution and function of the lipid transfer protein VPS13A in the brain to understand chorea acanthocytosis pathology****Ms. Esther García-García<sup>1,2,3</sup>**, Ms. Nerea Chaparro-Cabanillas<sup>1,2,3</sup>, Mr. Albert Coll-Manzano<sup>1,2,3</sup>, Ms. Maria Carreras-Caballé<sup>1,2,3</sup>, Dr. Albert Giralt<sup>1,2,3</sup>, Dr. Daniel del Toro<sup>1,2,3</sup>, Dr. Mercè Masana<sup>1,2,3</sup>, Dr. Jordi Alberch<sup>1,2,3</sup>, Dr. Manuel José Rodríguez<sup>1,2,3</sup>

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PS4-85

**CHRONICALLY INCREASING CORTICOSTRIATAL ACTIVITY PRODUCES STRIATAL ASTROCYTOSIS IN MICE**



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

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PS4-86

### IGF-I MITIGATES POST-TRAUMATIC STRESS THROUGH OREXIN NEURONS

**Ms. M. E. Fernández de Sevilla<sup>1,2</sup>**, Dr Jaime Pignatelli<sup>1,2</sup>, Mr J. A. Zegarra-Valdivia<sup>1,2,3</sup>, Dr Pablo Mendez<sup>1</sup>, Dr Ángel Nuñez<sup>4</sup>, Dr Ignacio Torres-Aleman<sup>1,2,3</sup>

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PS4-87

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

**Dr. Marta Perez-Rando<sup>1</sup>**, Dr. Ramon Guirado<sup>1</sup>, Dr. Hector Carceller<sup>1</sup>, Dr. Juan Nacher<sup>1</sup>

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PS4-88

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

Mr. Antonio Cerdán-Cerdá<sup>1</sup>, **Ms. Raquel Garcia-Hernandez<sup>1</sup>**, Mr. Alejandro Trouve-Carpena<sup>1</sup>, Mr. Santiago Canals<sup>1</sup>, Ms. Silvia De Santis<sup>1,2</sup>

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PS4-89

### Transcranial static magnetic stimulation over visual cortex of healthy subjects

**Ms. Marta Zaforas<sup>1</sup>**, Dr Vanesa Soto-León<sup>1</sup>, Dr Antonio Oliviero<sup>1</sup>

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PS4-90

### Immunoselective nanopheresis of A $\beta$ in cerebrospinal fluid as a treatment for Alzheimer's disease

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



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PS4-91

## Adjusting and validating a procedure for parenteral anaesthesia in neonatal mice

Sandra Sanahuja-Irene<sup>1</sup>, Rafael Goterris-Cerisuelo<sup>1</sup>, Maria Jose Sanchez-Catalan<sup>1</sup>, Fernando Martinez-Garcia<sup>1</sup>

<sup>1</sup>Universitat Jaume I, Castelló De La Plana, Spain

PS4-92

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

Ms. Rosa González<sup>1</sup>, Ms. Raquel Coronel<sup>2</sup>, Dr. Adela Bernabeu-Zornoza<sup>2</sup>, Ms. Andreea Rosca<sup>2</sup>, Ms. Patricia Mateos<sup>2</sup>, Dr. Victoria López<sup>1</sup>, Dr. Isabel Liste<sup>1</sup>

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PS4-93

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

Miriam Corraliza-Gomez<sup>1</sup>, Teresa Bermejo<sup>1</sup>, Noelia Rodriguez-Iglesias<sup>2,3</sup>, Jorge Valero<sup>4,5</sup>, Diego Sanchez<sup>1</sup>, Eduardo Arranz<sup>1</sup>, Irene Cozar-Castellano<sup>1</sup>, Maria Dolores Ganfornina<sup>1</sup>

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PS4-94

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

Miriam Corraliza-Gomez<sup>1</sup>, Beatriz Bendito-Guilarte<sup>1</sup>, David Sandonis-Camarero<sup>1</sup>, Diego Sanchez<sup>1</sup>, Maria Dolores Ganfornina<sup>1</sup>

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PS4-95

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

Miriam Corraliza-Gomez<sup>1</sup>, Dr. Manuela del Caño-Espinel<sup>1</sup>, Dr. Diego Sanchez<sup>1</sup>, Dr. Maria D. Ganfornina<sup>1</sup>

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