



#jornadasIN2024

# 17th IN progress report workshop

5<sup>th</sup> July 2024



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Chair: Silvia de Santis

## SP1 Neural stem cell regulation and differentiation

**9:20 - 9:40** **Eloisa Herrera:**  
Generation and Regeneration of Bilateral Neural Circuits

**9:40 - 10:00** **Ana Carmena:**  
Asymmetric division of neural stem cells in development and tumorigenesis

## SP2 Cell plasticity in brain disease and repair

**10:00 - 10:20** **Jose Vicente Sanchez-Mut:**  
Functional Epidemiogenomics of Aging and Alzheimer's Disease

**10:20 - 10:40** **Berta Lopez Sanchez-Laorden:**  
Cell Plasticity in Development and Disease

Chair: Isabel del Pino

## SP4 Synaptic modulation of neural circuits and behavior

**10:40 - 11:00** **Juan Lerma:**  
Synaptic Physiology

**11:00 - 11:20** **John Wesseling:**  
Molecular and cellular physiology of synaptic transmission

**11:20 - 11:30** Farewell of Group leaders Manuel Criado and Luis García-Alonso



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11:30 - 11:45 IZASA

**Coffee break**

11:45 - 13:00 Poster presentations 2nd year PhD students

13:00 - 14:00 Tribute to Miguel Valdeolmillos (with the participation of colleagues and disciples)

**Lunch**

**Chair: Jose Carlos Pastor-Pareja**

**SP6 Genetic & epigenetic basis of Individuality & aging**

15:30 - 15:50 **Javier Morante:**  
Neuroendocrine control of organ growth and sexual maturation

15:50 - 16:10 **Juan Antonio Sanchez-Alcañiz:**  
Neurogenetic basis of behavior

16:10-16:30 **Angel Barco:**  
Transcriptional and epigenetic mechanisms of neuronal plasticity

**Organizer: Dr. Javier Morante**

# Poster presentations

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Zic2-mediated regulation of cytoskeleton dynamics in the growth cone of retinal neurons  
Isabel Pérez-Ferrer; Carlos Sánchez-Huertas, Eloisa Herrera

Effects of a MAGL inhibitor on ethanol consumption and motivation  
Abraham Bailén Torregrosa; María Salud García Gutierrez; Jorge Manzanares

Mitochondria and metabolism in cortical development evolution  
Enrico Negri, Virginia Fernández, Adrián Cárdenas and Víctor Borrell

PIEZ01 and PIEZ02 Blade domains are differentially required for channel function  
Sergio Sarrió-Ferrández; Espe Selva; Francisco J Taberner

Extracellular Vesicles with a Specific Cell Origin as Sources of non-coding RNA Biomarkers in Neurodegenerative Diseases  
Alba M. Lucart Sanchez; Javier Saez Valero; Rocío Pérez González

Ultrasound neuromodulation to repair and rejuvenate white matter in central nervous tissue  
Jesús Limens-Pinaque; Alerie Guzmán de la Fuente; Josep Rodríguez-Sendra; Juanjo Rodriguez-García; Adrián Arándiga; Jose Luis Alonso; Teresa Ana Torres de Ayala; Raquel García-Hernández; Analía Rico Rodríguez; Francisco Camarena; Santiago Canals

Interaction of Tumor cells with the Microenvironment: Cell Plasticity and Metastatic cascade  
Angelita Costantino; Berta Lopez Sanchez- Laorden; María Angela Nieto Toledano

Caracterización clínica e inmunohistoquímica de la Neuropatía Inducida por Quimioterapia  
Pablo Ros Arlanzón, Carmen Díaz Marín, Félix Viana de la Iglesia, Elvira de la Peña García

Unlocking the Role of Enhancer of Polycomb Homologue 1 (Epc1) in Brain Function  
Alvaro Ballesteros-González, Candela Baretino, Antonia Ruiz-Pino, Binnaz Yalcin, Khalil Khass Youssef, Juan Paraíso-Luna, Yixin Dong, Haruhiko Koseki, Angel Barco, Felix Leroy, Antonio Gil-Nagel, Ángel Aledo-Serrano, Isabel del Pino

Schwann cell-axon interactions in peripheral tissues: role in sensory transduction and re-innervation after injury  
Andrea Ibáñez Grau, Hugo Cabedo Martí, Jose Antonio Gómez Sánchez

Visuo-volitional control of midbrain gaze shifting neurons  
Sofia Morou, Andreas Kardamakis

Functional disinhibition: opto-fMRI experiments in awake mice  
Alejandro Trouvé-Carpena, Andrés Pérez Segura, Raquel García Hernández, Luís Tuset Sanchís, Santiago Canals Gamoneda, Alejandro Sempere Ferrández

TRPM8+ neurons in the mouse lateral septum promote thermoregulation over food-seeking  
Lucía Illescas, Antonia Ruiz, Félix Leroy

Screening for the identification of new regulators of the asymmetric cell division process and tumor suppressor genes in the larval brain of Drosophila: Functional validation  
Mahima Laxmeesha, Ana Carmena

The role of multisensory information underlying decision making  
Ismael Navarro, María Sáez, Ramón Reig

Unraveling the Role of NALCN in Neural Circuit Development  
Candela Baretino, Alvaro Ballesteros-González, Hiromasa Funato, Masashi Yanagisawa, Dejian Ren, Leszek Lisowski, Stephan Pless, Antonio Gil-Nagel, Arnaud Monteil, Isabel Del Pino

Addressing acetylation imbalances in the genetic and environmental causes of Autism Spectrum Disorders  
Bustos-Martínez, Isabel; Herrera, Macarena Lorena; Fuentes-Ramos, Miguel and Barco, Ángel