

Organizers
Teresa Femenía
Andreas Kardamakis
Felix Leroy

21st
December 2024
Alicante, Spain

CHRISTMAS MEETING

Image: Álvaro Herrero Navarro



THURSDAY, 19th DECEMBER 2024

12:30 Introduction: Juana Gallar (Director)

12:35 1-minute poster presentations

13:00 Poster session

Session I **Chair: Felix Leroy**

- 15:00 Matteo Guardamagna** Kavli Institute for Systems Neuroscience, Norway
The ontogeny of toroidal manifolds in networks of grid cells precedes exploratory behavior.
- 15:30 Nuria Domínguez Iturza** Harvard University, USA
Molecular mechanisms governing projection-neuron-specific myelination in the cortex.
- 16:00 Shaam AL ABED** Australian National University, Australia
Cognitive deficits autism spectrum disorder: from psychology to network synchrony.
- 16:30 Sergi Roig Puiggros** University of Geneva
Location-independent emergence of neocortical circuits and function.

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FRIDAY, 20th DECEMBER 2024

Session II

Chair: Francisco Taberner

9:00 Nils Korte Boston Children's Hospital and Harvard Medical School, USA

Inhibiting Ca²⁺ channels in Alzheimer's disease model mice relaxes pericytes, improves cerebral blood flow and reduces immune cell stalling and hypoxia.

9:30 María Ángeles Carrillo Conesa CNRS, Univ. Paris, France

Modulation of reactive astrocytes as a therapeutic target for neurodegenerative diseases

10:00 Federico Iovino Karolinska Institutet, Sweden

Understanding the molecular mechanisms of neuronal damage during bacterial meningitis and developing new therapeutic strategies to protect neurons from bacterial interaction

10:30 Pablo Gimenez Gomez University of Massachusetts Chan Medical School, USA

An orbitocortical-thalamic circuit suppresses binge alcohol-drinking.

11:00 Coffee Break

Session III

Chair: Andreas Kardamakis

11:30 Janitza L. Montalvo-Ortiz

Profiling the genomics and epigenomics of opioid use disorder at the single-cell level.

12:00 Violeta Duran Laforet University of Massachusetts Chan Medical School, USA

Spatial transcriptomic mapping of senescence across aging and neurodegeneration uncovers a role for the microglial senescence secretory program.

12:30 Keynote speaker: Julien Bouvier CNRS, Univ. Paris, France

Neurons in motion: modular organization of brainstem neurons for motor control

13:30 Awards: best poster and best talk

14:00 Christmas toast



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