



18th Progress Report

WORKSHOP

Organizer: Javier Morante

4 July 2025

From 9 to 14.00

Francisco J. **Tejedor** Rescalvo

Víctor **Borrell**

Ángela **Nieto**

Guillermina **López-Bendito**

Felix **Leroy**

M Carmen **Acosta**

Hugo **Cabedo**

Francisco **Taberner**

María **Domínguez** Castellano

Santiago **Canals**

+posters

PROGRAM

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Chair
Javier Morante

SP1 Neural stem cell regulation and differentiation

9.00-9:20 **Francisco J. Tejedor Rescalvo**

A suitable *Drosophila* model to study Down syndrome neurobiological alterations caused by Mnb/Dyrk1A overexpression

9:20-9.40 **Víctor Borrell**

New vistas on embryonic brain development, evolution and cancer

SP2 Cell plasticity in brain disease and repair

9.40-10.00 **Ángela Nieto**

Cell plasticity trajectories in development and disease

SP3 Building & adapting circuits into functional networks

10.00-10:20 **Guillermina López-Bendito**

The Construction of Sensory-Modality Circuits: The Key Role of Spontaneous Activity

SP3 Building & adapting circuits into functional networks

10.20-10:40 **Felix Leroy**

Neural circuits of social interactions

10.40-11.15 **Presentations 2nd year PhD students:**
1-minute oral presentation for posters

11.15-12.00 **Presentations 2nd year PhD students:**
poster presentations (Ed. Balmis)



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Chair
Juan Antonio Sánchez Alcañiz

SP5 Neurobiology of pain & inflammation

12:00-12:20 **M Carmen Acosta**

Corneal sensory nerves in health and disease: functional, morphological and molecular changes

12:20-12:40 **Hugo Cabedo**

Schwann cell biology and nerve regeneration

12:40-13:00 **Francisco Taberner**

Molecular Regulation of Piezo2: New Insights into Sensory Mechanotransduction

SP6 Genetic & epigenetic basis of Individuality & aging

13:00-13:20 **María Domínguez Castellano**

Neural Control of Organismal Stability: From Genes to Circuits

SP7 Translational research of neurological and psychiatric disorders

13:20-13:40 **Santiago Canals**

From Brain Rhythms to Digital Twins: Memory, neuromodulation, and addiction