



## **XIII Simposi de Neurobiologia: Complexitat cel·lular en la funció i disfunció cerebral**

### **XIII Neurobiology Symposium: Cellular complexity in brain function and dysfunction**

**May 28-29, 2024. Barcelona, Spain**

Organized by *Secció de Neurobiologia Experimental*, Societat Catalana de Biologia.  
Secretariat: scb@iec.cat

Info anterior Simposi 2022: <https://scb.iec.cat/6942-2/>

#### **Summary**

The *Neurobiology Symposium* is a biennial scientific event organized by the Neurobiology section of the *Societat Catalana de Biologia* (SCB), an institution funded in 1912 with the main objective of disseminating biological science in Catalunya. Since the first Edition in 1996 (28 years ago), the Neurobiology Symposium has been a reference for researchers, professors and doctoral and postdoctoral students in the field of Neurobiology and Neurosciences in Catalunya, Valencia and Illes Balears. The main objective of the Symposium is to present recent scientific advances in the field of Neurosciences of the research groups of our community in order to be a scientific forum for participation of local, national and international, researchers. The active participation of young researchers at early/middle stages of their professional career, including talks and posters, is our priority. On this occasion the symposium will be held in May 2024 at the headquarters of the Institut d'Estudis Catalans (C/Carme 47, Barcelona), historical building of the first Hospital of the city of Barcelona. The participation of researchers in the last four editions are as follows:

**IX Simposi de Neurobiologia 2014:** 220 participants, 4 Plenary lectures, 8 oral sessions

**X Simposi de Neurobiologia 2016:** 240 participants. 4 Plenary lectures, 8 oral sessions (4 sessions/day).  
Oral presentations: 53. Number of posters: 85

**XI Simposi de Neurobiologia 2018: Future Technical Challenges.** 192 participants. 4 Plenary lectures, 7 oral sessions (4 sessions/day). Oral presentations: 45. Number of posters: 64

**XII Simposi de Neurobiologia 2022: Towards Translational Medicine.** 205 participants. 4 Plenary lectures, 7 oral sessions (4 sessions/day). Oral presentations: 42. Number of posters: 67

The scientific program and oral communications are in English. The scientific program is organized in seven sessions of short talks (15 min each) with two simultaneous sessions in the morning and two in the afternoon, and morning/afternoon posters presentations.

#### **RESEARCH TOPICS: ORAL PRESENTATIONS**

- Session 1A. Glial cells and inflammation
- Session 1B. Neural circuits and plasticity
- Session 2A. Cognition and brain plasticity
- Session 2B. Development of the nervous system
- Session 3A. Neurodegenerative diseases
- Session 3B. Mental and behavior disease mechanisms
- Session 4A. Neurotransmitter receptors and signaling
- Session 4B. Sensory and motor systems

## PLENARY LECTURES:

Isabel Fariñas, Universitat de València, CIBERNED

Gertrudis Perea, Instituto Cajal-CSIC, Madrid

Laurent Groc, CNRS/ Université de Bordeaux

Eduardo Soriano, Universitat de Barcelona, CIBERNED, Winner of the 6th Ramón Turró Award

## ORGANIZING COMMITTEE:

Ariadna Laguna (Coordinator), Institut de Recerca de l'Hospital Vall Hebrón (VHIR), CIBERNED

Xavier Altafaj, Institut de Neurociències, Universitat de Barcelona, IDIBAPS

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Montse Solé, Institut de Neurociències, Universitat Autònoma de Barcelona, CIBERNED



## SCIENTIFIC

## PROGRAM

### Day 1

### Day 2

|               |  |               |  |
|---------------|--|---------------|--|
| 8.30-8.50 h   | Registration   |               |  |
| 8.50 h        | <b>Welcome presentation</b><br>Room: Prat de la Riba   |               |  |
| 9.00-10.30 h  | <b>Session 1A Oral</b><br><b>Glial cells and inflammation</b><br>Room: Prat de la Riba<br><br><b>Session 1B Oral</b><br><b>Development of the nervous system</b><br>Room: Pere i Joan Coromines                | 9.00-10.45 h  | <b>Session 3A Oral</b><br><b>Neural circuits and plasticity</b><br>Room: Prat de la Riba<br><br><b>Session 3B Oral</b><br><b>Sensory and motor systems</b><br>Room: Pere i Joan Coromines  |
| 10.30-12.00 h | Coffee and <b>poster session</b>   | 10.45-12.00 h | Coffee and <b>poster session</b>   |
| 12.00-13.00 h | <b>Plenary Lecture 1</b><br><br><b>Prof. Isabel Fariñas, Universitat de València-CIBERNED</b><br><br>Títol: «Mechanisms of neuronal development and plasticity»<br><br>Room: Prat de la Riba                   | 12.00-13.00 h | <b>Plenary Lecture 3</b><br><br><b>Getrudis Perea, Instituto Cajal-CSIC</b><br><br>Títol: « Neuron-astrocyte signaling in stress-induced depressive-like states »<br><br>Room: Prat de la Riba   |
| 13.00-14.45 h | <b>Lunch and poster session</b>  | 13.00-14.45 h | <b>Lunch and poster session</b>  |
| 14.45-16.30   | <b>Session 2A Oral</b><br><b>Neurodegenerative diseases I</b><br>Room: Prat de la Riba<br><br><b>Session 2B Oral</b><br><b>Neurotransmitter receptors and neuropharmacology</b><br>Room: Pere i Joan Coromines | 14.45-16.30 h | <b>Session 4A Oral</b><br><b>Neurodevelopmental and mental diseases</b><br><br>Room: Prat de la Riba   |
| 16.30-17.30 h | <b>Plenary Lecture 2</b><br><br><b>Dr. Laurent Groc, CNRS/Bordeaux Université</b><br><br>Títol: «Glutamatergic receptors and synapses in neuropsychiatric disorders»<br><br>Room: Prat de la Riba              | 16.30-17.30 h | <b>6<sup>th</sup> Ramon Turró Award Conference</b><br><b>Plenary Lecture 2</b><br><br><b>6<sup>th</sup> Ramon Turró Winner:</b><br><b>Prof. Eduardo Soriano, Universitat de Barcelona, CIBERNED</b><br>Title: «Cajal-Rezius cells in brain development and disease»<br><br>Room: Prat de la Riba |
| 17.30-19:30 h | <b>Drinks and poster session</b>   | 17.30-17.45 h | <b>Awards</b><br><b>Closing remarks</b>  |
|               |  | 17.45-20.00 h | <b>CLOSING PARTY</b>   |

Oral communications: 10 min talk + 5 min questions

