

Programme Overview (22-24 May 2024)



The Spanish Society of Neuroscience (SENC) announces the celebration of the 12th Cajal Conference. The aim of this series of Conferences is to bring together specialists in the Neuroscience area to present their recent data and discuss with international leaders in the field on common interests in an open, informal atmosphere.

The field of epigenetics has introduced a novel branch of study that aims to elucidate the mechanisms through which the environment can modify individual genomes shaping new biological functions regardless of classic genetic inheritance. The environment, life style and social interactions modulate changes in gene expression that together with inherited risk variants confers susceptibility for mental conditions.

The sexual skewing observed across all psychiatric disorders suggests that males and female respond in different ways to genetic and epigenetic risk factors for mental disorders. Sex-specific developmental mechanisms could lead to differences in the susceptibility or protection to mental disorders amongst male and female.

The proposal of this conference dwells on the discussion of novel perspectives of epigenetics related to mental conditions and how sex factors may influence the differential risk for psychiatric conditions observed in males and females. We will focus on the implementation of human organoid models to untangle the contribution of epi-modulators and sex-related factors to behaviours and mental conditions.

Local Organizing team:

- **Dr. Esther Serrano Saiz** – CBMSO (Organ and Tissue Homeostasis)
- **Dr. Claudio Toma** – CBMSO (Physiological and pathological processes)
- **Dr. Leonardo Beccari** – CBMSO (Organ and Tissue Homeostasis)

Schedule:

	Wednesday 22	Thursday 23	Friday 24
7:30 – 9:00		Breakfast	Breakfast
9:00 – 10:00		Poster session	
11:00 – 12:00	Registration Opens	Recreational Activity (Beach and kayak)	Recreational Activity (Hiking: Coll de Portes/Puig Gros)
12:00 – 13:30	Welcome		
13:30 – 15:00	Lunch	Lunch	Lunch
15:30 – 16:30	Ángel Barco (Instituto Neurociencias, Spain)	András Lakatos (University of Cambridge, UK)	Thomas Bourgeron (Institut Pasteur, France)
16:30 – 17:30	Oral Presentations (4 speakers)	Oral Presentations (4 speakers)	Oral Presentations (4 speakers)
17:30 – 18:00	Coffee Break	Coffee Break	Coffee Break
18:00 – 19:00	Marian Martínez (IBMB, Spain)	Margaret McCarthy (University of Maryland, USA)	Jose González Martínez (MRC LBM, UK)
19:00 – 20:00	Poster session	Nirao Shah (Stanford University, USA)	Poster session
21:00 –	Dinner	Dinner	Dinner

Travel grants:

The SENC offers **10 travel grants** for PhD students and Postdocs that will cover the registration to the meeting. Applicants must be SENC members (membership link <https://www.senc.es/en/how-to-join-2/>). To apply, upload your CV and an abstract during the registration process: <https://amconferences.eventsair.com/senc-cajal-conference-2024/inscripcion/Site/Register>.

Speakers and talks:

- **Ángel Barco:** *Epigenetic mechanisms in neuronal plasticity and neurological disorders*
- **Margaret McCarthy:** *Sex Differences in the Developing Brain: Intersection of the Endocrine, Immune and Nervous System*
- **Andr s Lakatos:** *Early chromatin accessibility and transcriptomic changes revealed by human organoid models of neurodegeneration*
- **Marian Mart nez:** *JMJD3 integrates lineal and tridimensional information upon TGF  signal during early neurogenesis*
- **Nirao Shah:** *Neuromodulatory control of innate social behaviors*
- **Thomas Bourgeron:** *The genetic architecture of autism: from medicine to neurodiversity*
- **Jos  Gonz lez Mart nez:** *Investigating the interaction between autism risk genes and androgens during neurogenesis*

Venue

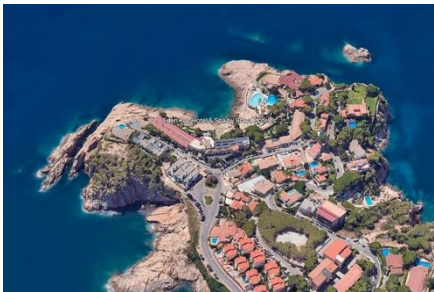
Eden Roc Mediterranean Hotel and Spa

The summit will take place at the **Eden Roc Mediterranean Hotel and Spa**, located in the heart of the Costa Brava, at the seaside and surrounded by the Mediterranean Sea. The Hotel was built in the 70s on top of the cliff in the old baths of St Elm and has 140 rooms, most of them with terraces overlooking the sea. The idyllic old fishing village of Sant Feliu de Gu xols is at a distance of 800 m and still preserves an important historical heritage, including the Benedictine Monastery.

Transport to the hotel

A free **shuttle bus** is scheduled for all participants on May 22nd with departures from (two stops): **Barcelona airport, Terminal 1 (El Prat) at 11am and Train station (Sants) at 11.45pm** and arrive at Hotel Eden Roc at 13.20pm.

On May 25th, **the shuttle will stop at Sants and Barcelona Airport with departure from the Hotel Eden Roc at 8 am.**



<https://www.edenrochotel.com/en/>