

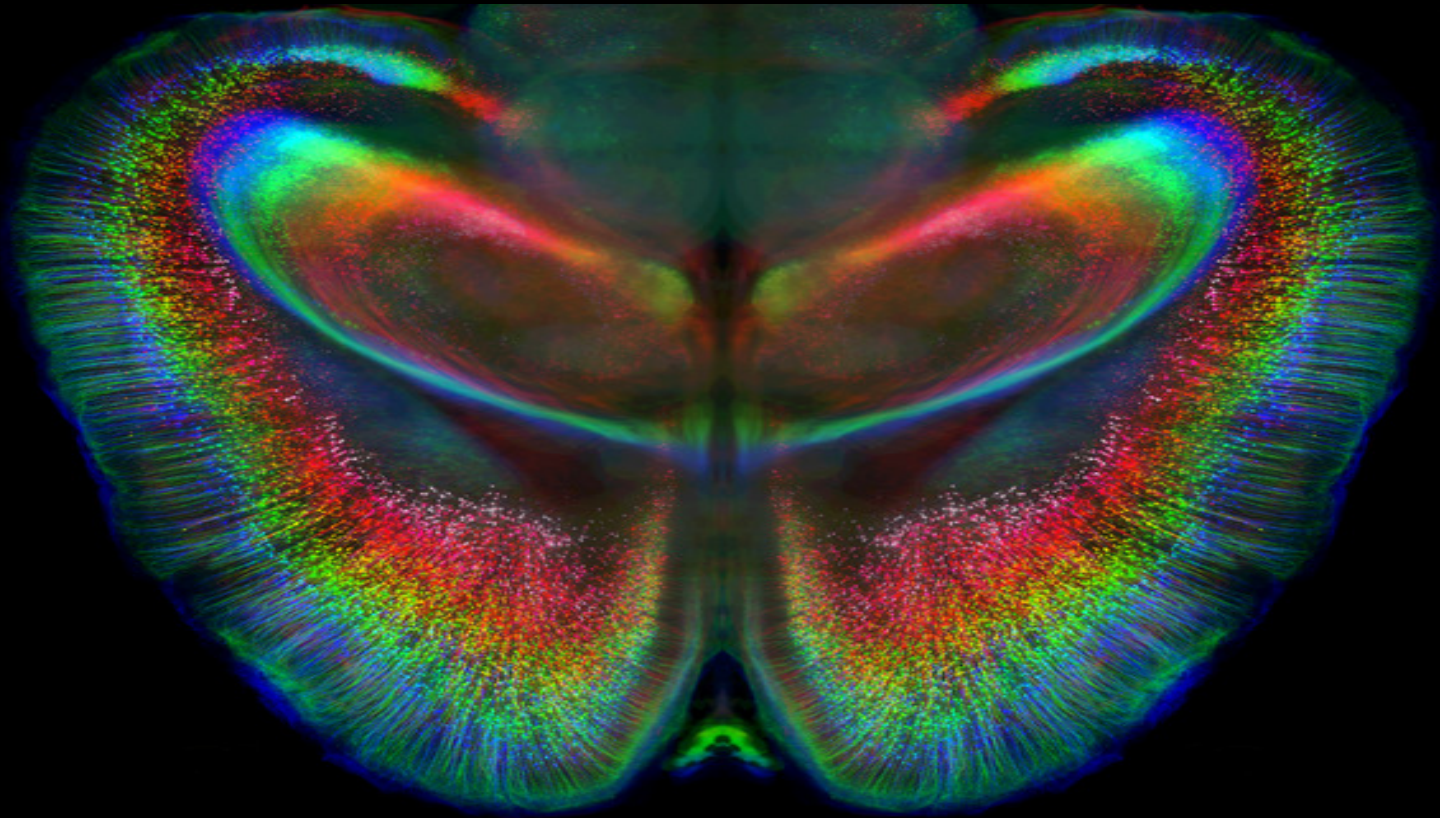
**XI Cajal Conference**  
***Spanish Society for Neuroscience***

# **New Frontiers in Neuron-Glial Plasticity in Health and Disease**

**Costa Brava – Hotel Eden Roc**

**5-7 May 2021**

## **Programme and Call for Applications**



The *Sociedad Española de Neurociencia* (SENC) announces the celebration of the **11th Cajal Conference**. The aim of these series of Conferences is to bring together specialists in a Neuroscience topic to present their recent data and discuss with international leaders in the field in an open, informal and fruitful atmosphere.

During the last decade the knowledge of the mechanisms involved in the formation, dynamics, remodeling and strengthening of synapses has advanced enormously providing further evidence that activity-dependent regulation of synapse efficacy underlies cognitive functions such as learning and memory. Moreover, synapse dysfunction and loss are thought to be responsible for the cognitive deficits observed in patients with neurodegenerative disorders such as Alzheimer's disease. Furthermore, growing evidences show that glial cells have an active role in the fine sculpting of neuronal connections regulating not only spine number but also synapse formation and synaptic function. The conference will address the most relevant advances in neuronal-glial regulation of synaptic function, covering novel advances on the cellular and molecular mechanisms involved and how synapse's structure and function are challenged in neurological and neurodegenerative diseases.

## Programme Overview

|               | Wednesday 7                                  | Thursday 8                                                                                          | Friday 9                                                                                                                                                                                                                                          |
|---------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 – 9:00   |                                              | Breakfast                                                                                           | Breakfast                                                                                                                                                                                                                                         |
| 9:30 –11:00   |                                              | Recreational Activity –<br>“One day in the life of a monastery”. Guided Visit to the History Museum | Recreational Activities (to choose between):<br><br>i) <i>Kayaking and Snorkeling Tour</i> “Sea Caves Route”<br><br>ii)Experience <i>Platja D’Aro Adventure Park</i><br><br>iii) <i>Walk by the “Camino de Ronda”</i> from Sant Feliu to S’Agaro. |
| 11:00 – 12:00 | Registration Opens                           |                                                                                                     |                                                                                                                                                                                                                                                   |
| 12:00 – 13:30 | Welcome & Professional Development Session   |                                                                                                     |                                                                                                                                                                                                                                                   |
| 13:30 – 15:00 | Lunch                                        | Lunch                                                                                               | Lunch                                                                                                                                                                                                                                             |
| 15:30 – 16:30 | Plenary Lecture:<br><b>Sandra Jurado</b>     | Plenary Lecture:<br><b>Alfonso Araque</b>                                                           | Plenary Lecture:<br><b>Monica Di Luca</b>                                                                                                                                                                                                         |
| 16:30 – 17:30 | Oral Presentations                           | Oral Presentations                                                                                  | Oral Presentations                                                                                                                                                                                                                                |
| 17:30 – 18:00 | Coffee Break                                 | Coffee Break                                                                                        | Coffee Break                                                                                                                                                                                                                                      |
| 18:00 – 19:00 | Plenary Lecture:<br><b>Pablo E. Castillo</b> | Plenary Lecture:<br><b>Rosa C. Paolicelli</b>                                                       | Plenary Lecture:<br><b>Christophe Mulle</b>                                                                                                                                                                                                       |
| 19:00 – 20:00 | Poster discussion                            | Poster discussion                                                                                   | Poster discussion                                                                                                                                                                                                                                 |
| 21:00 -       | Dinner                                       | Dinner                                                                                              | Dinner                                                                                                                                                                                                                                            |

## Plenary Lectures

**Alfonso Araque** – School of Medicine, University of Minnesota, USA

<https://med.umn.edu/bio/departments-of-neuroscience/alfonso-araque>

Title of the talk: *Tripartite Synapses: Astrocyte control of synaptic transmission and plasticity*

**Pablo E. Castillo** – Dpt Neuroscience, Albert Einstein College of Medicine, NYC, USA

<https://www.einstein.yu.edu/faculty/8363/pablo-castillo/>

Title of the talk: *Excitatory plasticity in the dentate gyrus. Mechanisms and role in epileptogenesis*

**Monica Di Luca** – Dpt Pharmacological Sciences, University of Milano, IT

<https://www.unimi.it/en/ugov/person/monica-diluca>

Title of the talk: *Synaptic dysfunction in Alzheimer Disease*

**Sandra Jurado** – Instituto Neurociencias de Alicante, Spain

<https://www.juradolab.com/>

Title of the talk: *Postsynaptic Exocytosis: Role in Plasticity and Neuromodulation*

**Christophe Mulle** – The Neuroscience Institute, Bordeaux, France

<https://www.bordeaux-neurocampus.fr/staff/christophe-mulle/>

Title of the talk: *Presynaptic plasticity in hippocampal circuits*

**Rosa Paolicelli** – Université de Lausanne, Switzerland

<https://www.unil.ch/physiologie/en/home/menuinst/groupe-de-recherche/rosa-chiara-paolicelli.html>

Title of the talk: *Dysfunctional microglia in the pathogenesis of neurodegeneration*

## Venue



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 Guíxols is at a distance of 800 m and still preserves an important historical heritage, including the Benedictine Monastery.



You can walk on the coastal path or go kayaking and discover the cliffed coast. It also stands out for its mediterranean gastronomy and fresh fish of the day. Moreover, it is 35 km away from the medieval city of Girona and 90Km away from the Dalí Museum.



## Recreational Activities

**Thursday 6** - “One day in the life of a monastery”. Guided Visit to the History Museum of Sant Feliu de Guixols.

**Friday 7** - **Option 1**: Kayaking and Snorkeling Tour “Sea Caves Route”

**Friday 7 - Option 2:** Experience Platja D'Aro Adventure Park

**Friday 7 - Option 3:** Walk by the “Camino de Ronda” from Sant Feliu to S'Agaró.

## Travel tips

### *By Plane*

The nearest airports are Barcelona (117 Km.) and Girona (35 Km.). Barcelona airport has regular flights to all over the world all year long. Girona airport has a strong Ryanair presence and thanks to its low-cost flights it is easy to travel from Sant Feliu de Guixols to a great number of European cities.

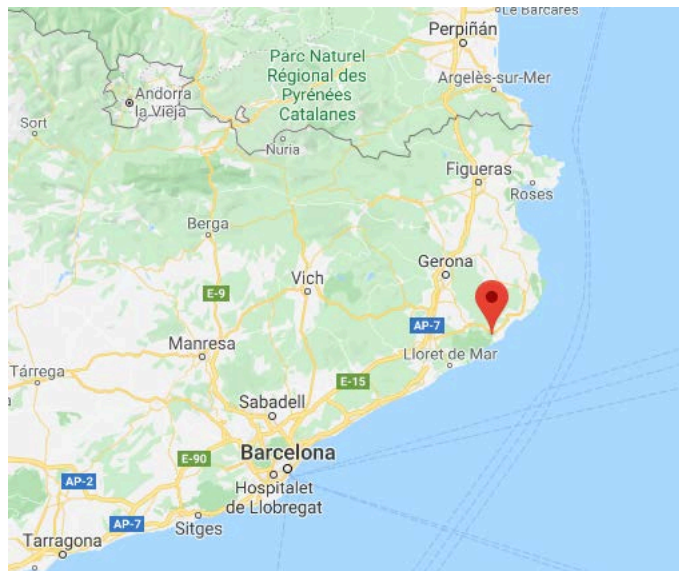
### ***Girona Airport***

35km.

### ***Barcelona Airport***

117 km.

There is a transfer service by bus, to Sant Feliu de Guíxols, during all year [www.sarfa.com](http://www.sarfa.com)



### *By car*

AP-7 Motorway to exit 9 (Lloret de Mar/ Sant Feliu de Guíxols).

For the last 30km take the C-65.

The motorways are tolled.

### *By bus*

From or to Barcelona or Girona

**SARFA**

Information and timetables: [www.sarfa.com](http://www.sarfa.com)

## **Teisa**

Information and timetable: [www.teisa-bus.com](http://www.teisa-bus.com)

## **Registration Fees**

**(all included. Also, leisure activities)**

### EARLY (until March 26th, 2021)

Student SENC - 300€ (sharing room) / 450€ (single use)

Regular SENC - 325€ (sharing room) / 475€ (single use)

Student no-SENC - 340€ (sharing room) / 490€ (single use)

Regular no SENC - 400€ (sharing room) / 550€ (single use)

### REGULAR (from March 27th to April 26th, 2021)

Student SENC - 330€ (sharing room) / 480€ (single use)

Regular SENC - 360€ (sharing room) / 510€ (single use)

Student no-SENC - 400€ (sharing room) / 550€ (single use)

Regular no SENC - 450€ (sharing room) / 600€ (single use)

## ***Registration***

Attendance is limited to 60 participants.

For registration, please, send an e-mail to SENC Technical Secretary: [secretaria.senc@kenes.com](mailto:secretaria.senc@kenes.com), with a copy of the bank transfer of the corresponding fees to the SENC account “La Caixa” 2100 2923 01 0200027281. For transfers made outside Spain please indicate: IBAN: ES26 2100 2923 01 0200027281 SWIFT code: CAIXESBBXXX.

**IMPORTANT – Participants should indicate in the email the Recreational activity they want to participate on Friday 15.**

Registration of participants will only be considered after bank transfer. The name of the registered persons preceded by “CC” must be included in the information of the bank transfer (e.g. CC John Smith).

## ***Travel grants***

Provided by SENC and ISN

To stimulate the assistance of young scientists (Ph.D students or young post-doctoral fellows; less than 2 years from Ph.D), travel grants (150-250€) will be granted depending of the distance of origin. Higher amounts could be considered for overseas students. Priority will be given to student members of SENC and ISN. Submission of a communication is mandatory to be eligible for these travel grants.

## ***Presentations***

Authors willing to present their communications should submit an abstract to ([secretaria.senc@kenes.com](mailto:secretaria.senc@kenes.com)) and indicate their preference for oral or poster presentation. Oral presentation will be selected on the basis of quality and originality. Authors selected for oral presentations must bring their PowerPoint presentation in a portable USB device.

Abstracts will be accepted only if registration fees of the presenting author have been received.

Deadline for abstract submission is April 15th (April 6th if travel grant is requested).

Oral presentations will be selected from the abstracts received by April 15th.

## **Abstract form**

Type in title, followed by authors names and affiliations in regular type (underline presenting author), leave one line before text body. Include 1-2 refs. if necessary. No figures or tables are allowed. Word count for the text body should be 250 or less (including references, excluding title, authors' names and affiliations)

## Committees

### Local Committee

Nuria Casals - *Universitat Internacional de Catalunya & CIBEROBN*, Sant Cugat, Barcelona.

Mara Dierssen - *Centro de Regulación Genómica, Universitat Pompeu Fabra & CIBERER*, Barcelona.

José Rodríguez Álvarez - *Institut Neurociències, Universitat Autònoma de Barcelona & CIBERNED*, Bellaterra, Barcelona.

Carlos A. Saura - *Institut Neurociències, Universitat Autònoma de Barcelona & CIBERNED*, Bellaterra, Barcelona.

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**SENC Programme's Committee:** Fernando de Castro (President), Juan de los Reyes Aguilar (Secretary), José Luis Trejo, Bernardo Castellano, Laura López Mascaraque, Carlos Matute, Felix Viana de la Iglesia, Guillermina López-Bendito, Joan Comella and Casto Rivadulla.