

## INTERNAL / EXTERNAL CALL

### The Institute

The **Sant Pau Research Institute Foundation (IR Sant Pau)** is a scientific foundation whose mission is to improve the health and quality of life of the population through the production and dissemination of scientific knowledge, the training of researchers at an international level, and the promotion of innovation and health by incorporating medical advances into clinical practice and health policies. Created in 1992, it has been a center of research excellence affiliated with the Autonomous University of Barcelona (UAB) since 2009 and, since 2011, is part of the CERCA (Research Centers of Catalonia) network.

For the Foundation, it is a priority to ensure that the most suitable candidate is hired to fill a job through an open, transparent and merit-based selection process (OTM-R). Following these guidelines, staff mobility, knowledge exchange and, ultimately, the increase in the quality of teaching and research will be enhanced. Faithful to our commitment to the European Union's human resources strategy, our institution's personnel selection and recruitment procedures are governed by a set of basic principles that guarantee equal access to employability for all. Therefore, the constitutional principles of equality, merit and ability are followed, respecting in all cases the national and international regulations in force in this area, specifically the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (C&C). The principles of C&C are applicable to the recruitment of any personnel of the institution, regardless of their professional category. For this reason, our Foundation has obtained the recognition of "Excellence in R+D in Research" granted to the IIB Sant Pau, since 2015.



The **Santa Creu i Sant Pau Hospital Research Institute Foundation** needs to incorporate at the Molecular Synapse Physiology Group:

**R1B- Predoctoral Researcher**

## About the Unit / Group:

The Laboratory of Molecular Synapse Physiology was founded in May 2012 at the Sant Pau Biomedical Research Institute in Barcelona. Our goal is to understand how the synaptic proteome is organized and functions, particularly in excitatory synapses of the cortex and hippocampus. We study how this set of proteins regulates synaptic plasticity and, consequently, cognition and behavior. We also analyze how molecular alterations can lead to cognitive disorders, such as intellectual disability or autism.

We apply Systems Biology strategies, combining mass spectrometry-based proteomics with bioinformatics analysis. A key line of the group is to describe the synaptic proteome and see how it varies depending on brain region, neuron type, or life stage. This leads us to ask how hundreds of molecules are coordinated, whether there are subtypes of synapses, or what rules determine their composition.

Another fundamental research area of the group is the characterization of synapse molecular pathology in cognitive disorders. Current evidence points to its central role in neurodegenerative and psychiatric diseases. We are particularly focused on non-syndromic intellectual disability (NSID), as many genes implicated in these disorders are located at the synapse. Within neurodevelopmental disorder

## Essential requirements

- Minimum qualification required: Higher Education (University Degree)
- Be a PhD student enrolled and admitted to a doctoral programme
- Oral and written knowledge of the two official languages of Catalonia or, failing that, the successful candidate will have to demonstrate, or promise to obtain, within a period not exceeding one year, a correct knowledge of the two official languages of Catalonia.
- Intermediate level of English
- Intermediate knowledge of office tools (excel, word, power point, etc).

## Skills will be valued

- Interest in basic and translational biomedical research.
- Interest in neurodevelopmental and autism spectrum disorders.
- Experience in basic and/or translational research.
- International research experience abroad.
- Research experience in biochemistry and molecular biology.
- Research experience in cell biology.

- Research experience in optical and confocal microscopy.
- Research experience in animal electroencephalography (EEG) studies, including EEG data analysis.
- Research experience with murine models.
- Certification for working with laboratory animals.
- Programming skills in R and/or Python.
- Ability to work independently and reason autonomously and critically.
- Ability to work collaboratively and as part of a team.

## Functions

- Develop a line of research, under the supervision of thesis directors, aimed at deepening our understanding of the molecular and cellular bases involved in encephalopathy caused by SYNGAP1 deficiency.
- As a result of this research, identify new therapeutic targets to improve cognitive abilities and behavior in individuals with this neurodevelopmental disorder.
- Complete this process with the elaboration of a doctoral thesis.

## Offered

- Predoctoral contract – Project PID2024-160538OB-I00 funded by MICIU / AEI / 10.13039/501100011033 / FEDER, EU.



- Annual working hours: 1,627.50 hours (37.5 hours/week).
- Salary according to EPIF.
- Research Group: Molecular Synapse Physiology.

## Documentation and deadline for submission

Interested parties should preferably deliver the documentation (1) in PDF, by e-mail to the Management of the Santa Creu i Sant Pau Hospital Research Institute Foundation, address [ir\\_seleccio@santpau.cat](mailto:ir_seleccio@santpau.cat), indicating the reference **2025/149**:

### (1) Application letter and updated Curriculum Vitae and signed Data Processing Authorization\*\*

At the request of the Santa Creu i Sant Pau Hospital Research Institute Foundation, the candidates must present the documentation accrediting the merits mentioned in the curriculum vitae.

Applications will be resolved within a maximum period of one month from the end of the deadline for submission of documentation. At the end of this period, without having been notified of an express resolution, the interested parties will be entitled to understand that their applications have been rejected.

Santa Creu i Sant Pau Hospital Research Institute Foundation may declare this call for applications closed if, according to its criteria, the candidates does not meet the conditions that the Institution considers necessary to fill the position.

The interpretation of the requirements and their enforceability to the candidates will be exclusive to the Santa Creu i Sant Pau Hospital Research Institute Foundation.

**\*\*It is essential to attach the duly signed data processing authorization (document attached at the end of the call)\*\*\***

**The deadline for submitting applications  
will end on October 7<sup>TH</sup>, 2025, at 3:00 p.m.**

*Fundació Institut de Recerca de l'Hospital de la Santa Creu i Sant Pau, sited at C. Sant Quintí, 77-79, 08041, Barcelona, Tel: 93 291 90 50, NIF: G-60136934, as Data Controller and in compliance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) and the Organic Law 3/2018 of 5th of December, on the protection of personal data and the guarantee of digital rights, will treat your data with the sole purpose of developing this call. The legal basis for this treatment is the article 6.1 a, c and f from the GDPR, giving that we will ask for your consent, the treatment is necessary for the application of precontractual measures and its necessary to satisfy the legitimate interests pursued by the Data Controller.*

*The data will be kept during the necessary time to develop the call. Data will be treated solely by that areas and services that are allowed to in accordance with their assigned competences and functions. There will be no data cessions made unless there is a legal obligation to do so. You are entitled to exercise the rights of access, rectification, deletion, opposition, limitation and portability. In case you have any doubts, you can contact the data protection delegate at [dpo\\_ir@santpau.cat](mailto:dpo_ir@santpau.cat). You also have the right to file a complaint to the relevant control authority.*

**PERMANENCE COMMITMENT:** *Selected persons who will hold the summoned or vacant position, will not be able to apply for a new call until 1-year period has expired. In case of part-time job positions, this period will be of 6 months. In both cases, the period will compute from the date of publication of the resolution. The vacant summoned, and the ones that derive from it (intern movements), will be successively covered on the same proceeding among the submitted candidates to each particular call, regardless of whether this entails coverage of places in turns other than the call.*

Barcelona, 23/09/2025



**Human Resources Departament**

Santa Creu i Sant Pau Hospital Research Institute Foundation

### **AUTHORISATION FOR PROCESSING PERSONAL DATA**

Dear candidate:

The Fundació Institut de Recerca del Hospital de la Santa Creu i Sant Pau, with CIF G-60136934 and registered office at C/ Sant Quintí, 77-79, (08024) Barcelona, as data controller, informs you that it will process your data for the following purposes:

- Receipt of applications.
- Analysis of applications in order to incorporate the worker into the team of the Fundació Institut de Recerca del Hospital de la Santa Creu i Sant Pau, for a current vacancy and for future selection processes that fit your profile.
- To carry out personnel selection processes, as well as to formalise the hiring of the employee, if applicable.
- Comply with the required legal obligations.

The legitimate basis for processing the data is based on the legitimate interest of processing this job offer, in accordance with the provisions of Article 6.1 b) of the General Data Protection Regulation, as your data are necessary for the performance of a contract, which the data subject is a party or for the implementation of pre-contractual measures at his or her request.

However, we inform you that your data (i) will only be processed by those departments or areas of the Institute which, according to their competencies and functions, have an interest in the selection of personnel, (ii) may be communicated to public authorities and organisations, in order to comply with a legal obligation, such as service providers and third parties necessary for the management and execution of the relations derived from the request made and (iii) that they will be kept for the periods foreseen for the prescription of legal responsibilities.

Finally, we inform you that you have the right to access your personal data, to rectify them, to request their deletion, to oppose their processing and to revoke your consent to this processing. In certain circumstances, you may request that we restrict the processing of your personal data, in which case we will only retain your personal data for the exercise or defence of claims. In addition, you have the right to make a complaint to the relevant data protection authority. If you have any questions about the processing of your data you can contact the Entity's Data Protection Officer by sending an email to [dpo@santpau.cat](mailto:dpo@santpau.cat).

#### **Consent**

I have been informed about the processing of my data and I consent to the processing:

☐ YES

☐ NO

Name & Surname:

Signature