

PhD Position in Neuroscience

Our research group is looking for a **PhD candidate** to join us on a funded project focused on the **molecular and cellular mechanisms of nociception and pain**, with particular emphasis on the role of **CPT1C protein and AMPAR regulation**.

The successful candidate is expected to start **as soon as possible**, and no later than the **2026–2027 academic year**.

Project description

Chronic pain represents a major clinical and societal challenge. The project where the PhD work will be framed aims to elucidate the role of the neuron-specific protein **CPT1C** in nociceptive processing, from peripheral sensory neurons to spinal cord circuits. The research will explore whether CPT1C modulates **AMPA receptor trafficking and function** in acute, inflammatory, and neuropathic pain. The project combines **in vitro and in vivo approaches**, including primary neuronal cultures (DRG and spinal cord), patch-clamp electrophysiology, calcium imaging, molecular and biochemical techniques and behavioral mouse models.

Candidate profile

We are looking for candidates who hold (or will hold by the start date) a **Master's degree** in Neuroscience, Biomedicine, Biology, Biomedical Sciences, or a related field, have a **strong academic record (minimum 8.5)**, suitable for competitive national and international PhD fellowship applications. Previous research experience (especially in electrophysiology) will be valued, but obviously is not mandatory.

Funding

The selected candidate might be supported with a **paid research contract for at least one year**, with the goal of applying for **competitive PhD fellowships** during this period (national or international calls). Continued funding beyond the first year is expected subject to fellowship success.

How to apply

Candidates should send to davidsoto@ub.edu or egratacosbatlle@ub.edu the following:

- **Curriculum Vitae**
- Academic transcripts (unofficial copies are sufficient at this stage)
- A brief statement of research interests (optional but encouraged)