

Join us for a PhD in Neuroscience!!

Pain in Spain

4-year Predoctoral position in Alicante

Sensory Transduction and Nociception Group

A four-year PhD contract (contrato FPI) is available in our research group at the Instituto de Neurociencias (UMH-CSIC) in Alicante to study the molecular mechanisms involved in the development of painful neuropathy after treatment with anticancer agents.

The candidate will join our research group while completing his/her studies towards obtaining a PhD degree in Neuroscience from the University Miguel Hernández

<https://in.umh-csic.es/en/formation/programa-de-doctorado-en-neurociencias-2/>

Project: We are trying to understand how sensory neurons detect different environmental signals and produce a coded message that eventually leads to a painful sensation. In this project we will study the mechanisms that give rise to abnormal excitability in molecularly defined subpopulations of sensory neurons in an animal model of painful chemotherapy-induced peripheral neuropathy (CIPN).

The projects relies on the combined use of different techniques that include immunohistochemistry, *in vivo* and *in vitro* calcium imaging, *in vivo* and *in vitro* electrophysiology, optogenetics, and behavioural assays.

Some recent publications from our group:

Marcotti, Fernández-Trillo et al., (*Brain*, 2023)
PMID: 35871491

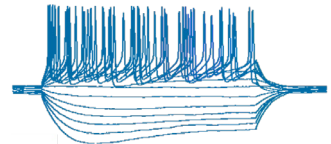
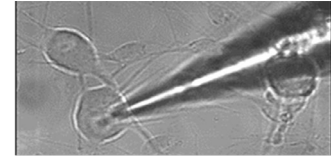
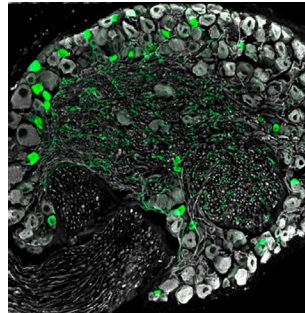
Fernández-Trillo et al., (*J Neuroscience*, 2020)
PMID: 33055278

Arcas et al., (*J Neuroscience*, 2019)
PMID: 30545944

Marcotti et al., (*Pain* 2018) PMID: 29319609

Caires et al., (*Nature Communications*, 2015)
PMID: 26311398

Morenilla-Palao et al., (*Cell Reports*, 2014)
PMID: 25199828



Further details can be found at:

<https://in.umh-csic.es/es/grupos/transduccion-sensorial-y-nocicepcion/>

<http://painchannels.com/index.php/index>

Requirements: Candidates should hold a Master degree in Neuroscience, Biology, Physics, Chemistry or related fields and interest or experience in neuroscience/sensory systems. We are looking for a highly motivated and curious candidate, fluent in English and with good quantitative skills. A live or remote interview will be carried out with interested candidates.

We offer: the opportunity to join a friendly, highly collaborative group, in an excellent environment to pursue a PhD degree in neuroscience. Opportunity to participate in international collaborations. Expected starting date is September-December 2023. The position will be open until we find a suitable individual.

Contact: interested applicants should send their **curriculum vitae** and a **motivation letter** to Félix Viana (felix.viana@umh.es) and Ana Gomis (agomis@umh.es). We will be happy to discuss with you our expectations and provide further details.