

## 1-year Postdoctoral position available in Alicante Sensory Transduction and Nociception Group

A 1-year (extendable to 3) postdoctoral position is available in our research group at the Instituto de Neurociencias (UMH-CSIC) in Alicante in the project “Cellular and molecular mechanisms of chemotherapy-induced neuropathic pain: paving the path to prevention and treatment”.

**Description:** Our research investigates how sensory neurons detect environmental signals and encode them into messages that generate sensations. We focus on TRP and Piezo2 channels as molecular transducers of thermal and mechanical signals in peripheral nerve terminals under physiological and pathological conditions. A key objective of our current project is to identify and characterize subpopulations of primary sensory neurons in various models of chronic pain. This effort is guided by single-cell transcriptional profiling and the optogenetic exploration of thermosensory and mechanosensory circuits. To achieve these goals, we employ a comprehensive array of techniques, including calcium imaging, RNA sequencing (RNA-seq), in vivo and in vitro electrophysiology, and behavioral assays.

Some **recent publications** of our group:

Arcas et al, (*Br J Pharm*, 2024)

Marcotti et al, (*Brain*, 2023)

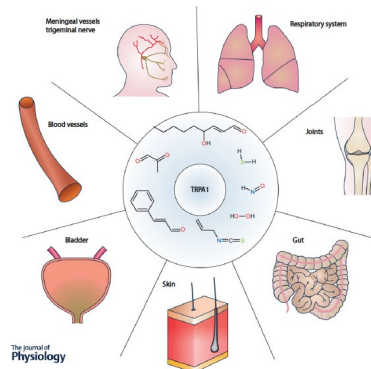
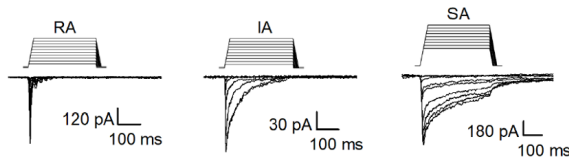
Fernández-Trillo et al, (*J Neuroscience*, 2020)

Arcas et al., (*J Neuroscience*, 2019)

Caires et al., (*Nature Communications* 2015)

Morenilla-Palao et al, (*Cell Reports*, 2014)

Meseguer et al. (*Nature Communications*, 2014)



Further details can be found at:

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

We are part of a leading Neuroscience Institute in Spain, with more than 300 scientists in over 36 research teams, distinguished by an international jury in the framework of the Severo Ochoa Excellence Program since 2013. The candidate will benefit from working in a highly dynamic, well-funded centre. Core facilities at the Institute are staffed by personnel with expertise in microscopy, functional imaging, cell sorting, behavior, microarray, next generation sequencing, transgenic and molecular biology techniques. <https://in.umh-csic.es>

Funding is available for an initial period of 1 year.

**Requirements:** Candidates should hold a PhD in Physical or Life Sciences. We seek a curious, highly motivated person interested in sensory transduction and pain research and with experience in one or more of the following techniques: electrophysiology, mechanobiology, optopharmacology, behavioural assays, cellular transcriptomics or *in vivo* cellular imaging. Candidates for the position are expected to have a strong publication record and the potential to seek independent funding during the course of the project.

**Contact:** applicants can send an e-mail to Dr. Félix Viana ([felix.viana@umh.es](mailto:felix.viana@umh.es)) or Dr. Ana Gomis ([agomis@umh.es](mailto:agomis@umh.es)) with a CV including a list of publications and technical expertise, a description of research interests and two names of individuals willing to act as references for the candidate.

**Application review will begin immediately and will continue until a suitable candidate is selected.**