

## 4-year Predoctoral position available in Alicante Sensory Transduction and Nociception Group

A four-year PhD contract is available in our research group at the Instituto de Neurociencias (UMH-CSIC) in Alicante ("Ayudas para contratos predoctorales para la formación de doctores convocatoria 2020") assigned to the project "Molecular and cellular diversity of thermo- and mechanoreceptors: role in peripheral and central mechanisms of chronic pain", grant reference **PID2019-108194RB-100**. The candidate will join our research group while completing his/her studies towards obtaining a PhD degree in Neuroscience from the University Miguel Hernández ([http://in.umh-csic.es/phd\\_view.aspx](http://in.umh-csic.es/phd_view.aspx))

The application is competitive and has to be completed on-line, with a deadline of October 27<sup>th</sup> in the "Agencia Estatal de Investigación" web site:

<https://www.ciencia.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccb5d52ffeb801432ea0/?vgnextoid=490233572bed4710VgnVCM1000001d04140aRCRD>

**Description:** Our research aims at understanding how sensory neurons detect different environmental signals and produce a coded message that eventually leads to a sensation. Our current focus is on the structure and function of TRP and Piezo2 channels that act as molecular transducers of thermal and mechanical signals in peripheral nerve terminals.

A major goal of the current project is to characterize subpopulations of primary sensory neurons in different models of chronic pain guided by transcriptional profiling at the single cell level, and the optogenetic interrogation of thermosensory and mechanosensory circuits.

We use a broad range of techniques that include calcium imaging, RNAseq, *in vivo* and *in vitro* electrophysiology and behavioral assays.

Some recent publications of our group:

Fernández-Trillo et al, (*J Neuroscience*, in press)

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

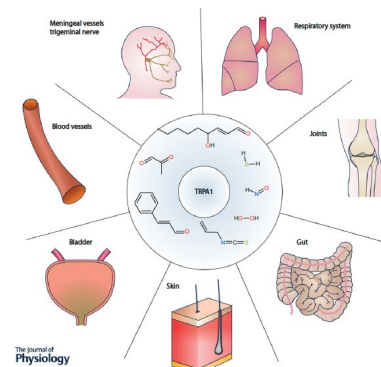
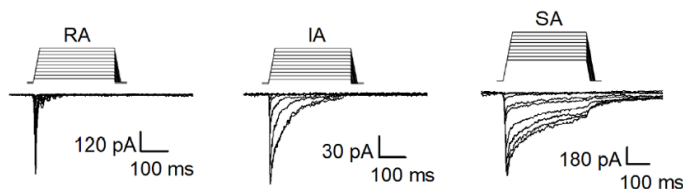
Caires et al., (*Nature Communications* 2015)

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

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

Further details can be found at:

<http://in.umh.es/es/grupos-detalle.aspx?grupo=20>



**Requirements:** Candidates should hold a Master degree in Physical or Life Sciences. We are looking for a highly motivated and enthusiastic candidate, fluent in English and with good quantitative skills. A virtual interview will be carried out with potential candidates. For the selection which will be taken into account together with the Curriculum Vitae. Previous experience will be also evaluated.

**Contact:** interested applicants should send their **Curriculum Vitae**, **academic records** and a **motivation letter** to Félix Viana ([felix.viana@umh.es](mailto:felix.viana@umh.es)) and Ana Gomis ([agomis@umh.es](mailto:agomis@umh.es)) **before next October 23<sup>rd</sup>**. Please write to us for any further details.