



Postdoctoral research position to study functional thalamo-cortical interactions at the López-Bendito Laboratory in the Instituto de Neurociencias, Alicante, Spain

We are seeking for a highly motivated postdoctoral neuroscientist with a strong background in neuroscience to study neuronal sensory circuits development and plasticity in mice using *in vitro* and *in vivo* two-photon calcium imaging and electrophysiology.

Our research topic is to understand the cellular and molecular mechanisms involved in the development and plasticity of the thalamocortical connection (<http://lopezbenditolab.com>). In particular, our aim is to uncover the principles underlying thalamocortical circuit formation, maintenance and plasticity following sensory deprivation, through an integrated and innovative experimental programme. These include optical imaging, manipulation of gene expression *in vivo*, cell and molecular biology, biochemistry, cell culture and electrophysiology.

Candidates should have a PhD in fields related to our work and these qualifications: experience in systems neuroscience and/or electrophysiology, a strong track record, and an independent working style.

The laboratory will provide an excellent multidisciplinary working atmosphere at the Instituto de Neurociencias in Alicante, located in the south-east of Spain at the University of Miguel Hernández-CSIC campus. The host institute is composed by several research groups exploring the development, structure and function of the nervous system in normal and pathological conditions (<http://in.umh.es/>).

Candidates should send their CV, cover letter, and contact information of 3 references to **Guillermina López-Bendito**: g.lbendito@umh.es. The position fits under the ongoing ERC CoG2014 project, is available immediately and will be open until has been filled.

