POSTDOCTORAL CANDIDATE INTERESTED IN APPLYING FOR A FELLOW IN NEUROSCIENCES

Molecular basis of vestibular damage in chronic inner ear insults

Are you a postdoctoral researcher thinking about your next career move? Institute of Neurosciences of the University of Barcelona allows you to work in a first class research environment.

Group and project information
Applicants will be integrated into the research group “Cellular and molecular basis of sensory disorders - http://www.neurociencies.ub.edu/jordi-llorens/”; (P.I. Jordi Llorens).

The vestibular system in the inner ear detects head accelerations, including gravity and those resulting from movements of the head. Vestibular dysfunction causes disequilibrium, vertigo, and loss of gaze control. We pursue the identification of the basis of the vestibular dysfunction that develops progressively during chronic exposure to vestibulotoxic chemicals. This is a way of identifying how reversible and irreversible events take place in this system, likely relevant to the major health concern of age-related sensory loss. It will also contribute to our understanding of the biology of this fundamental and neglected sensory system. To date, we have established rat and mouse models of chronic ototoxic exposure that can be modulated to cause reversible or irreversible function loss (Sedó-Cabezón et al., Dis. Model. Mech. 2015; Greguske et al., Arch. Toxicol. 2019). We are using these models and a RNA-seq approach to identify gene programs triggered at the different stages of chronic vestibular damage. In parallel, we are developing zebrafish embryo models to expand the findings through gene manipulation approaches.

Requirements for candidates:
Skills/Qualifications:
- Ph.D. in Neuroscience or related fields
- Interest in vestibular / sensory / nervous system physiopathology
- Experience in rodent or zebrafish models
- One or several: confocal microscopy / molecular biology / bioinformatics

Languages:
English: Excellent

How to apply
Please submit your CV and a motivation letter to: Jordi Llorens (jllorens@ub.edu); Reference: Postdoc fellow)

Deadline: 15 January 2020