



POSTDOCTORAL CANDIDATE INTERESTED IN APPLYING FOR A MSCA-IF IN NEUROSCIENCES

Physiology and Pathology of the functional relations neuron-glia

Are you a postdoctoral researcher thinking about your next career move? The Marie Skłodowska-Curie Individual Fellowships ([MSCA-IF](#)) are a great option if you are an experienced researcher looking to give your career a boost by working abroad.

[Institut of Neurosciences](#) of the [University of Barcelona](#) allows you to work in a first class research environment while benefitting from an attractive salary to cover living, travel and family costs.

Group and project information

Applicants will be integrated into the research group "Physiology and Pathology of the functional relations neuron-glia"; (P.I. Raúl Estévez).

Chloride is the most abundant anion in organisms. Plasma membrane chloride channels from the CLC and LRRC8 family are important for several physiological functions such as regulation of excitability in nerve cells and muscle, for cell volume regulation as well as for transepithelial transport. The physiological roles of several chloride channels are illustrated by human inherited diseases caused by mutations in their genes or in auxiliary subunits that regulate their functions. Thus, defects in CLC and LRRC8 proteins have been related with hyperexcitability of skeletal muscle (myotonia, dystrophic myotonia, Hungtinton's disease), salt loss in the kidney and deafness (Bartter's syndrome), leukodystrophy (myelin alteration) with edema in the white matter or agammaglobulinaemia. Our aim is try to understand chloride channel regulation in order to provide therapeutical solutions to affected patients. We use a multidisciplinary approach by applying imaging, electrophysiology and biochemistry methods in rat, mice and zebrafish models.

Functions and tasks

The candidate will learn electrophysiological methods in *Xenopus* oocytes (voltage clamp) and in cells (patch clamp) in order to analyze the mechanism of regulation of astrocytic chloride channels and its activation defect in MLC disease.

Requirements for candidates:

Skills/Qualifications:

- PhD or equivalent (Recognised Researcher R2)
- Motivation for research





Languages:

English: Excellent

Specific Requirements:

- Candidates must fulfilled eligibility MSCA criteria described in the [Guide for Applicants](#)

Working conditions:

- Full time temporary contract
- Gross salary of about € 50,000
- Duration: ranging from 12 to 36 months depending on the typology of the fellow
- Starting date: flexible from beginning of May 2020

Support for candidates

The [Institute of Neurosciences](#) and the [International Research Projects Office](#) at the University of Barcelona could offer you:

- A travel grant to work on your proposal with your future supervisor
- One day course on “How to work a successful MSCA IF”
- Personalized support on the application
- Support on other national calls such as [Beatriu de Pinós](#) and [Junior Leader](#)
- Mentoring

How to apply

Please submit your CV to: Raúl Estévez (restevéz [@ub.edu](mailto:restevéz@ub.edu)); Reference: MSCA IF Candidate)

Deadline: 24/06/2019

