



POSTDOCTORAL CANDIDATE INTERESTED IN APPLYING FOR A MSCA POSTDOCTORAL FELLOWSHIP IN

Non-coding RNAs in neurodegenerative diseases:

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

[Institute 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 “Functional Genomics of Neurodegenerative diseases”; (P.I. Eulàlia Martí).

Non-coding RNAs (ncRNAs) generally act as gene expression regulators; and are particularly abundant and diverse in the brain, showing highly dynamic and specific expression patterns. The accurate expression pattern of ncRNAs is fundamental for the correct function of the nervous system and deregulation of ncRNA pathways underlies human disease. Our **hypothesis is that the ncRNA profiles reflect in a very precise manner fine-tuned changes in neuronal states.**

The main research interest in our group is to **understand disease-driven deregulation of ncRNAs and their role in neuronal dysfunction.** Major current challenges in translational biomedicine that are the core research of the lab are (i) to evaluate the potential of ncRNAs as disease-specific, peripheral non-invasive **biomarkers** and (ii) to understand the functional and pathogenic relevance of these species, which may help to unravel **disease mechanisms** and identify **therapeutic targets.**

We perform these activities using state-of-the art functional genomics approaches, in mouse models and cell cultures. We have also strong expertise in RNA-seq data mining algorithms to detect candidate ncRNA species. We develop these activities in a network of national and international collaborations, to address multidisciplinary aspects of RNA biology in Neurosciences.

The applicant will work in the Department of Biomedicine, with multidisciplinary research teams tackling different aspects of Neurosciences. This very friendly environment provides a number of different theoretical skills and experimental expertise as well as it gathers many young and successful research leaders.





Functions and tasks

The applicant is expected to lead a project focused on the identification of ncRNA species early deregulated in neurodegeneration paradigms and understand their involvement in disease evolution. The primary focus will be Huntington's disease, for which our most recent data support a toxic role of ncRNA species (doi: 10.1007/s00401-021-02272-9). The applicant will participate in activities such as weekly lab meetings, Department seminars and Inter-group meetings.

Requirements for candidates:

Skills/Qualifications:

- PhD or equivalent (Recognised Researcher R2)
- Strong expertise in molecular and cell biology

Languages:

English: Excellent

Specific Requirements:

- Candidates must fulfilled eligibility MSCA criteria

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 2022

Support for candidates

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

- Personalized support on the application
- Personalized mentoring if pre-selected (valued in 4000 euros)
- Support on other national calls such as [Beatriu de Pinós](#) and [Junior Leader](#)

How to apply

Please submit your CV and 2 contacts for references or 2 reference letters to: Eulàlia Martí (eulalia.marti@ub.edu); Reference: MSCA PF Candidate)

Deadline: 31 May 2021

