



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

### Neuropharmacology and Aging Research

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 "[Research group in Neuropharmacology and aging research](#)" (GREN); (P.I. [Antoni Camins](#)).

Our research is focused in the relationship between alterations in the metabolism specifically, type 2 diabetes mellitus and progression of the Alzheimer's disease. Thus treatment of APPSwe / PS1dE9 mice with a high fat diet favors disease worsening and memory loss. Currently, we have demonstrated changes in transcripts and proteins involved in the insulin pathway in the hippocampus of the APPSwe / PS1dE9 mice a familial model of Alzheimer's disease. Moreover, we have detected disturbances in intracellular signalling pathways downstream of prolactin and leptin receptors, JAK/STAT signalling, as well as abnormalities in cholesterol metabolism in the hippocampi of APPSwe / PS1dE9 mice between the 3 and 6 months of age. Alzheimer's disease is also associated with the decrease in insulin levels in the central nervous system and alterations of insulin receptors and downstream pathway in the brain. Defects in insulin signaling / IGF-1 affect PI3K / Akt causing neurodegeneration process.

#### Requirements for candidates:

##### *Skills/Qualifications:*

- PhD or equivalent (Recognised Researcher R2)
- Cell culture techniques
- Behavior test
- Molecular biology techniques

##### *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 (if you are interested in further documents mention them here) to:  
Antoni Camins (camins@ub.edu; Reference: MSCA IF Candidate)

**Deadline: 24/06/2019**

