



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

### Neuropsychology: Healthy aging and Cerebrovascular disease

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

Universitat de Barcelona- a leading European University- 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 “Neuropsychology: Healthy aging and Cerebrovascular disease” (P.I. [Maria Mataro](#); Researcher ID: B-4524-2011), a multidisciplinary team environment of researchers aware of the need for prevention and treatment of brain and cognitive decline associated with normal aging and disease. Our lab aims to provide new evidence of the impact and effectiveness of neuroprotective non-pharmacological interventions -physical exercise, cognitive training and mindfulness-, to understand their molecular and neural mechanisms and to promote the development of novel strategies in the field of neurorehabilitation. We apply a highly interdisciplinary approach that combines principles from neuropsychology, neuroimaging, biochemistry, engineering and molecular biology within the omics technology. The successful candidate will be involved in the projects entitled “Integrative omics study on the neurobiological effects of physical activity and cognitive stimulation” and “Exercise the Mind and the Brain. A Multimodal intervention in stroke”

#### Functions and tasks

The position requires the ability to embrace new technologies and methods. The candidate will have general knowledge of the fields of biology, chemistry, mass spectrometry, metabolomics, proteomics and neuroimaging analysis. The postdoctoral researcher will be expected to contribute in data management, analysis and publication of the results in peer reviewed scientific journals, to participate in scientific meetings, seminar series and other appropriate professional activities, provide guidance to undergraduate and graduate students in the laboratory.





## Offer Requirements

### *Skills/Qualifications:*

- Doctoral Degree in bioinformatics, cellular/molecular biology, genetics, biochemistry, medicine, or related disciplines
- Experience in analysis of transcriptomics or metabolomics data
- Machine learning, network analysis, and/or graph theory
- Ability to work outside established field of expertise and work well collaboratively in a team environment
- Excellent publication record in the last 5 years

### *Languages:*

English: Excellent

### *Specific Requirements:*

Must not have spent or carried out the main activity (work, studies, etc.) in Spain for more than 12 months between 11th September 2016 and 11th September 2019.

## Submission

Please submit your application (CV and letter of interest) directly to: Maria Mataro (mmataro@ub.edu)

## Support for applicants

The [Institute of Neurosciences](#) and the [International Research Projects Office](#) offers support to applicants (eligibility check, info sessions, feedback on the draft proposal) and has recently launched a Mentoring programme specifically designed for MSCA applicants (subject to availability).

