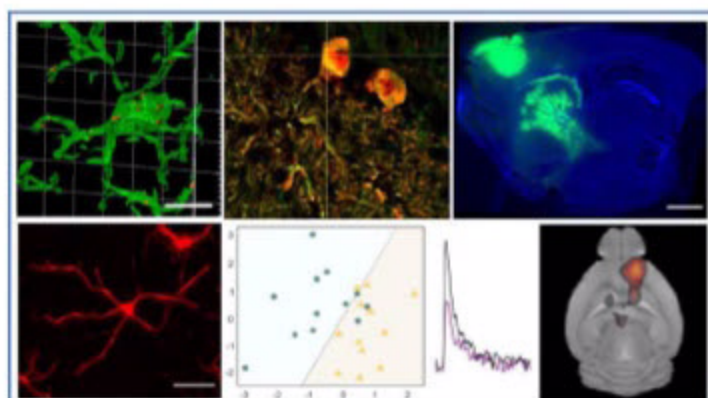


## PHD POSITION IN NEUROSCIENCE

The [Institute of Neurosciences \(UBneuro\)](https://www.neurociencias.ub.edu/neuronal-network-dysfunction-in-neurological-and-psychiatric-disorders/) of the University of Barcelona (Unit of Excellence Maria de Maeztu) offers a vacant position for a **Predoctoral researcher** (FPI fellowship from the Spanish Ministry of Science, Innovation and Universities) within the group of **Neuronal Network Dysfunction in Neurological and Psychiatric Disorders** <https://www.neurociencias.ub.edu/neuronal-network-dysfunction-in-neurological-and-psychiatric-disorders/> in the Medical School (campus Clínic) of the University of Barcelona led by Professors Jordi Alberch and Manuel J Rodríguez. This research group is also a member of **IDIBAPS** <https://www.clinicbarcelona.org/ca/idibaps/arees-i-programes/neurociencias-cliniques-i-experimentals/fisiopatologia-i-tractament-de-les-malalties-neurodegeneratives> and **CIBERNED** (Instituto de Salud Carlos III) <https://www.ciberned.es/grupos/grupo-de-investigacion?id=27949>, which makes a very creative and innovative environment for biomedical research in neurosciences for PhD students.



### JOB DESCRIPTION

We offer a FPI PhD fellowship associated to the project **Novel pathogenic mechanisms that disrupt neuronal network integrity to generate disease-modifying therapies for basal ganglia disorders** PID2023-150728OB-I00.

We are seeking a **talented and highly motivated researcher**. The candidate will join an **interdisciplinary collaborative research team** working to understand the mechanisms that modulate connectivity and plasticity of neural circuitry with the final aim of developing **new network-based therapeutic strategies for neurological disorders**.

The candidate will achieve technical skills in ***in vitro* and *in vivo* approaches** to assess the genetic, molecular, cellular, electrophysiological, neuroimaging and behavioral alterations and recovery in animal models of motor disorders. These include primary cell cultures of neurons, behavioral studies in small animals, stereotaxic surgery, electrophysiological recordings, confocal microscopy, and advanced image quantification, among other techniques.

### REQUIREMENTS

- Bachelor and Master's degree in Biomedicine or related subjects such as Biomedical Sciences, Bioengineering, Biology, Psychology, Biochemistry, or related areas.
- High level of spoken and written English (B2 or higher).
- Critical spirit and curiosity to understand how the brain is working and its pathology.

### Desirable:

- Experience in a biomedical research laboratory, preferably neurosciences will be valued.
- Training in small animal experimentation

### EMPLOYMENT CONDITIONS

- FPI fellowship from the Spanish Ministry of Science, Innovation and Universities in the University of Barcelona

### HOW TO APPLY

Interested candidates must send CV, and a presentation letter to Dr. Jordi Alberch ([alberch@ub.edu](mailto:alberch@ub.edu)) and Dr. Manuel J Rodríguez ([marodriguez@ub.edu](mailto:marodriguez@ub.edu))

### DEADLINE

6th of September 2024

### Publications:

Jordi Alberch, MD, PhD <https://orcid.org/0000-0002-8684-2721>

Manuel J Rodríguez, PhD <https://orcid.org/0000-0002-4476-004X>

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