

**Date of publication of the job offer**

27 July 2021

**Job title:**

POSTDOCTORAL FELLOWSHIP POSITION

**Job description**

We offer a Postdoctoral Position in the Laboratory of Molecular Physiology at the Universitat Pompeu Fabra (Barcelona) to work in basic research in vascular risks associated to cognitive impairment.

The specific project to be developed addresses the "CARDIOVASCULAR STRESS IMPACTS ON NEURONAL FUNCTION: INTRACELLULAR PATHWAYS TO COGNITIVE IMPAIRMENT".

This research work addresses the study of atrial fibrillation, atherosclerosis and stroke in the neuronal functional impairment. The main objectives are: i) to study the contribution of misfolding of TTR, ANP, AL and A $\beta$ , and collagen dysregulation to atrial fibrillation and neuronal dysfunction on cardio-fibroblast, cardiomyocytes and neurones; ii) to study the role of mechanoreceptors in the onset and progression of atrial fibrillation and atherosclerosis; iii) to study the role of nitro-oxidative stress in atrial fibrillation, atherosclerosis, stroke and cognitive impairment.

The techniques to be used are vascular cell cultures, electrophysiology, calcium analysis, western blot and molecular biology.

**Project and Institution that finance the contract**

Instituto de Salud Carlos III – Subprograma de Proyectos de Acciones Complementarias (AES 2020) Europeos - ERANET

**Official number reference**

Instituto de Salud Carlos III - AC20/00009 - ERA/CVD Jordi G.Ojalvo.

**Information on the minimum requirements**

- It is required that the candidate has a demonstrated experience in mechanoreception and cardiovascular research.
- The candidate should have completed a postdoctoral stay on mechanoreception and/or cardiovascular system.
- Background in vascular cell cultures, electrophysiology, calcium analysis, western blot and molecular biology techniques.

**Benefits of the opening**

The candidate will receive a two-year contract with a gross salary/year of 35.000 € plus Social Security costs.

**Information on the application process**

Candidates who meet the specified requirements must send a letter of interest on a single page and their abbreviated CV specifying only: the year of the bachelor's degree, the year of the doctorate, the postdoctoral stay in mechanoreception and / or cardiovascular system and a brief description of the techniques he/she has frequently used. It should also include the publications and the impact factor of each publication.

**Deadline to submit applications**

13/08/2021

**Contact**

Send the letter of interest and the brief CV to [paco.munoz@upf.edu](mailto:paco.munoz@upf.edu)