Universitat Pompeu Fabra Barcelona
Departament de Ciències Experimentals i de la Salut

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Date of publication of the job offer: June 15th 2020

Pompeu Fabra University (UPF), PRBB, Barcelona

Pura Muñoz-Cánoves Lab

Technician Position in Function and regulation of muscle stem cells

Job description

Available position for a **Technician fellow** to work on function and regulation of **stem cell aging**.

We are looking for highly motivated Technician to join our research team, working in coordination at two locations: the National Cardiovascular Research Center (CNIC), in Madrid, and the Department of Experimental and Health Sciences of the Pompeu Fabra University (UPF) at the PRBB, in Barcelona. We study the mechanisms underlying the loss of stem cell regenerative decline with aging, and in particular the failure in proteostasis and entry into senescence of aging stem cells, as well as potential mechanisms to reverse these aging-associated defects.

You will be employed on the **RTI2018-096068-B-I00 (AEI-FEDER-UE)- MUSCLFIX** project and be part of a dedicated team of molecular and cell biologists. You will support researchers combining molecular biology, transcriptomics, epigenetics and bioinformatics, mouse genetics and tissue injury-regeneration, as well as proteostasis and senescence approaches, to define the intricate regulatory circuitry of stem cell aging, and potential rejuvenating strategies

Recent publications from the lab

- Proteostatic and Metabolic Control of Stemness. García-Prat L, Sousa-Victor P, Muñoz-Cánoves P. **Cell Stem Cell** 20:593-608, 2017
- Solanas G, Peixoto FO, Perdiguero E, Jardí M, Ruiz-Bonilla V, Datta D, Symeonidi A, Castellanos A, Welz PS, Caballero JM, Sassone-Corsi P, Muñoz-Cánoves P*, Benitah SA*. Aged Stem Cells Reprogram Their Daily Rhythmic Functions to Adapt to Stress. **Cell** 170:678-692, 2017
- Autophagy maintains stemness by preventing senescence. García-Prat L, Martínez-Vicente M, Perdiguero E, Ortet L, Rodríguez-Ubreva J, Rebollo E, Ruiz-Bonilla V, Gutarra S, Ballestar E, Serrano AL, Sandri M, Muñoz-Cánoves P. **Nature** 529:37-42, 2016
- Geriatric muscle stem cells switch reversible quiescence into senescence. Sousa-Victor P, Gutarra S, García-Prat L, Rodriguez-Ubreva J, Ortet L, Ruiz-Bonilla V, Jardí M, Ballestar E, González S, Serrano AL, Perdiguero E, Muñoz-Cánoves P. **Nature** 506:316-21, 2014

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Project and Institution that finance the contract
MINECO

Official number reference
AEI-PGE/RTI2018 **RTI2018-096068-B-I00 (AEI-FEDER-UE)** *cofunded by* FEDER

Information on the minimum requirements

Highly motivated Technician with previous experience in stem cells and aging are encouraged to apply. Degree in Life sciences is required for applicants. We will appreciate:

- experience in either of the following areas: mouse genetics, stem cells, proteostasis (autophagy, proteasome), metabolism
- excellent communication skills in written and spoken English;
- strong analytical skills, and a problem-solving and result-oriented attitude;

Benefits of the opening

To be defined depending on the candidate profile.

Information on the application process
CV, list of publications and contact information for referees should be sent to: marina.raya@upf.edu

Deadline to submit applications
July 15th, 2020

Contact : marina.raya@upf.edu