

**Open Pre-Doctoral Position
Pompeu Fabra University (UPF)
Barcelona Biomedical Research Park (PRBB)
Barcelona, Spain**

One pre-doctoral position is available in the group of Pura Muñoz-Cánoves at the Pompeu Fabra University (UPF), Department of Experimental and Health Sciences (Cell Biology Unit), in the Barcelona Biomedical Research Park (PRBB), Barcelona, Spain.

You will be employed on the **ERC Advanced Grant 'Stem-Aging'** project and become part of a dedicated team of molecular and cell biologists.

We study the mechanisms underlying the decline of stem cell regenerative potential 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.

Publications of the group include:

- 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, Rodríguez-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

We are looking for highly motivated candidates with a B.S. in Life Sciences and Master in Biomedical Sciences. The most likely successful candidates will have excellent previous experience in cellular and molecular biology. Previous stages in other laboratories will be highly valued.

Terms of salary and employment: MICINN predoctoral training program conditions apply.

Application

Applicants should submit his/her application to marina.raya@upf.edu, pura.munoz@upf.edu; containing a motivation letter, the CV in English (including degree final score), and contact details for two references.

Application deadline: **December 2nd, 2019**

More information: <http://www.upf.edu/cellbiology/>