



## Pompeu Fabra University (UPF), PRBB, Barcelona

Pura Muñoz-Cánoves lab

### Postdoctoral Positions in Stem Cell Aging

Positions are available for **postdocs** to study cellular and molecular mechanisms controlling **stem cell aging**.

We are looking for highly motivated and ambitious postdoctoral researcher to join our research team, at 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 as well as potential mechanisms to reverse these aging-associated defects.

You will be employed on the **ERC Advanced Grant 'Stem-Aging'** 5-year project and be part of a dedicated team of molecular and cell biologists. You will actively participate in projects that combine molecular biology, transcriptomics, epigenetics and bioinformatics, mouse genetics and tissue injury-regeneration, as well as proteostasis and senescence approaches, or circadian control of gene expression, to define the intricate regulatory circuitry of stem cell aging, and potential rejuvenating strategies.

Highly motivated scientist with a strong interest in stem cells and aging are encouraged to apply. PhD in Life sciences is required. We will appreciate:

- experience in either of the following areas: mouse genetics, stem cells, transcription, epigenetics, bioinformatics, metabolism;
- excellent communication skills in written and spoken English;
- strong analytical skills, and a problem-solving and result-oriented attitude;
- the ability to work and interact with others in an energetic and supportive research group.

CV, list of publications and contact information for referees should be sent to: [marina.raya@upf.edu](mailto:marina.raya@upf.edu)

#### Recent publications from the lab

- 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)
- Proteostatic and Metabolic Control of Stemness. García-Prat L, Sousa-Victor P, Muñoz-Cánoves P. **Cell Stem Cell** 20:593-608 (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)