

<p>Date of publication of the job offer: May 11th 2021</p>
<p>Pompeu Fabra University (UPF), PRBB, Barcelona Pura Muñoz-Cánoves Lab</p> <p>Postdoctoral Position in Molecular basis of muscle aging</p>
<p>Job description</p> <p>We seek for a highly competitive postdoctoral fellow to study skeletal muscle aging. We are looking for highly motivated and ambitious <u>experimental biologists, with a strong background in bioinformatics</u>, to join our research team in the Department of Experimental and Health Sciences of the Pompeu Fabra University (UPF) at the PRBB, in Barcelona.</p> <p>We study the mechanisms underlying tissue regenerative decline with aging, and in particular the mechanisms controlling muscle aging (sarcopenia), with the aim of preventing or delaying sarcopenia through rejuvenating strategies.</p> <p>You will be employed on a three-years project, and your work will combine transcriptomics, epigenetics, bioinformatics and computational biology, with mouse genetics, to define the intricate regulatory circuitry of muscle aging and potential rejuvenating strategies</p> <p>Recent publications from the lab</p> <ul style="list-style-type: none"> García-Prat L, Perdiguero E, Alonso-Martín S, Dell'Orso S, Ravichandran K, Brooks SR, Juan AH, Campanario S, Jiang K, Hong X, Ortet L, Moiseeva V, Rebollo E, Sun H-W, Musarò A, Sandri M, del Sol A, Sartorelli V, Muñoz-Cánoves P. FoxO maintains a genuine muscle stem-cell quiescent state until geriatric age. Nature Cell Biol, 2020 Segalés J, Perdiguero R, Serrano AL, Sousa-Victor P, Ortet L, Jardí M, Budanov A, Garcia-Prat L, Sandri M, David M, Thomson DM, Karin M, Lee JH, Muñoz-Cánoves P. Sestrin prevents atrophy of disused and aging muscles by integrating anabolic and catabolic signals. Nature Commun, 2020 Solanas G, Peixoto FO, Perdiguero E, Jardí M, Ruiz-Bonilla V, Datta D, Symeonidi 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, 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
<p>Information on the minimum requirements</p> <p>Highly motivated scientist with a strong interest in tissue regeneration, aging and bioinformatics are encouraged to apply. PhD in Life sciences is required for postdoctoral applicants. We will appreciate:</p> <ul style="list-style-type: none"> experience in either of the following areas: bioinformatics and genetics excellent communication skills in written and spoken English
<p>Benefits of the opening</p> <p>To be defined depending on the candidate profile.</p>
<p>Information on the application process</p> <p>CV, list of publications and contact information for referees should be sent to: pura.munoz@upf; marina.raya@upf.edu</p> <p>Deadline to submit applications: June 11th, 2021</p> <p>Contact: marina.raya@upf.edu</p>