

Postdoctoral Research Scientist position available

A position is available for a Postdoctoral Fellow at the Zorzano Lab (<https://www.irbbarcelona.org/en/research/complex-metabolic-diseases-and-mitochondria#antonio-zorzano>), which focuses on the identification of the mechanisms by which mitochondrial dysfunction participates in the development of complex metabolic disorders, and also in mitochondrial disease, and in the design of new therapies. Our lab has been focused on the implications of mitochondrial fusion or mitochondrial fission proteins in age-related diseases, and the role of interplay between autophagy, mitochondrial function, and energy metabolism. Candidates must send a complete CV, cover letter and contact information for three references to antonio.zorzano@irbbarcelona.org, and olga.bausa@irbbarcelona.org.

Candidates must demonstrate a good track of early achievements (independent funding during her/his PhD and peer reviewed publications, among others). Candidates should have experience in biochemistry and molecular biology basic techniques. Candidates with solid experience in cell culture and/or work with mouse models are particularly encouraged to apply.

The Zorzano laboratory is a senior laboratory located at the IRB Barcelona. The group has access to cutting-edge technology and facilities and is exposed to the vibrant scientific community of IRB Barcelona, and surrounding institutions (IBEC, University of Barcelona, and CSIC).

For more information about the position please contact me at the above e.mail.

Selected References

1. Irazoki A, Gordaliza-Alaguero I, Frank E, Giakoumakis NN, Seco J, Palacín M, Gumà A, Sylow L, Sebastián D, Zorzano A. Disruption of mitochondrial dynamics triggers muscle inflammation through interorganellar contacts and mitochondrial DNA mislocalization. *Nat. Commun.* (in press) 2022.
2. Sabaté-Pérez A, Romero M, Sánchez-Fernández-de-Landa P, Carobbio S, Mouratidis M, Sala D, Engel P, Martínez-Cristóbal P, Villena JA, Virtue S, Vidal-Puig A, Palacín M, Testar X, Zorzano A. Autophagy-mediated NCOR1 degradation is required for brown fat maturation and thermogenesis. *Autophagy* 2022, Aug 25;1-22. doi: 10.1080/15548627.2022.2111081.
3. Sebastián D, Zorzano A. Self-Eating for Muscle Fitness: Autophagy in the Control of Energy Metabolism. *Dev Cell.* 54, 268-281, 2020.
4. Hernández-Alvarez MI, Sebastián D, Vives, Ivanova S, Bartoccioni P, Kakimoto P, Plana N, Veiga SR, Hernández V, Vasconcelos N, Peddinti G, Adrover A, Jové M, Pamplona R, Gordaliza-Alaguero I, Calvo E, Cabré N, Castro R, Kuzmanic A, Boutant M, Sala D, Hyotylainen T, Orešič M, Fort J, Errasti-Murugarren E, Orozco M, Joven J, Cantó C, Palacin M, Fernández-Veledo S, Vendrell J, Zorzano A.

Deficient ER-mitochondrial phosphatidylserine transfer causes liver disease. Cell 177, 881-895, 2019.

5. Romero M, Sabaté-Pérez A, Francis VA, Castrillón-Rodríguez I, Díaz-Ramos A, Sánchez-Feutrie M, Durán X, Palacín M, Moreno-Navarrete JM, Gustafson B, Hammarstedt A, Fernández-Real JM, Vendrell J, Smith U, Zorzano A. TP53INP2 regulates adiposity by activating β -catenin through autophagy-dependent sequestration of GSK3 β . Nat. Cell Biol. 20, 443-454, 2018.