

Postdoctoral position available at the Oxidative Stress and Cell Cycle Group (UPF, PRBB)

The Oxidative Stress and Cell Cycle Research Group at Universitat Pompeu Fabra is interested in studying the components and molecular mechanisms which regulate cell responses to oxidative stress. Specifically, the position is open to work in the connections between **mitochondrial metabolism**, **reactive oxygen species**, **regulation of gene expression and longevity**, using the fission yeast *Schizosaccharomyces pombe* as a model system. To obtain more information about the laboratory and about our research interests, please consult our group's web page (www.upf.edu/osccg). Some recent publications of the group include the following:

- Vega, M., Barrios, R., Fraile, R., de Castro Cogle, K., Castillo, D., Anglada, R., Casals, F., Ayté, J., Lowy-Gallego, E. and Hidalgo, E. 2023. Topoisomerase 1 facilitates nucleosome reassembly at stress genes during recovery. *Nucleic Acids Res.* (in press).
- Salat-Canela, C., Pérez, P., Ayté, J. and Hidalgo, E. 2023. Stress-induced cell depolarization through the MAP kinase-Cdc42 axis. *Trends Cell Biol.* 33:124-137.
- Salat-Canela, C., Carmona, M., Martín-García, R., Pérez, P., Ayté, J. and Hidalgo, E. 2021. Stress-dependent inhibition of polarized cell growth through unbalancing the GEF/GAP regulation of Cdc42. *Cell Rep.* 37:109951.
- Corral-Ramos, C., Barrios, R., Ayté, J. and Hidalgo, E. 2022. TOR and MAP kinase pathways synergistically regulate autophagy in response to nutrient depletion in fission yeast. *Autophagy* 18:375-390.
- Carmona et al. 2019. Monitoring cytosolic H₂O₂ fluctuations arising from altered plasma membrane gradients or from mitochondrial activity. *Nat. Commun.* 10:4526.
- García-Santamarina et al. 2014. Monitoring in vivo reversible cysteine oxidation in proteins using ICAT and mass spectrometry. *Nature Prot.* 9:1131-1145.

We have an opening for 2024 for **1 postdoctoral fellow** to work on any of the topics of interest in our lab (see above). We offer full funding for 1-2 years equivalent to a Juan de la Cierva contract.

Candidate requirements: Highly motivated scientists with strong background in Cell Biology and Molecular Biology. Experience with yeast genetics will be highly appreciated.

Background: Biology or Chemistry

Languages: English

Duration: Minimum of **two years**

Application procedure: send your CV, a brief statement of research and 2-3 names of references (with e-mail and phone numbers) to:

elena.hidalgo@upf.edu

