



POSTDOCTORAL RESEARCH POSITION IN VALLADOLID Calcium signaling group

Group of Drs. J. García-Sancho & M.T. Alonso.

<http://www.ibgm.med.uva.es/investigacion/fisiologia-celular-y-molecular/calcio-y-funcion-celular>

Universidad de Valladolid-Instituto de Biología y Genética Molecular (IBGM-CSIC).

We have a **postdoctoral position** available to study a role of calcium signaling calcium in organella, mainly in the sarco-endoplasmic reticulum (ER) in conditions of health and disease. More concretely, we will focus on the role of ER calcium signalling in neuronal, cardiac and pancreatic physiology and pathology. We have recently showed that the ER calcium content is much reduced in aging flies and this correlates with the lost of muscle activity (Delrio-Lorenzo et al., 2020). The experimental approaches extends from the purification of recombinant proteins of bacteria up to the generation of transgenic animals models (flies and mice) for a human diseases. Experimental design will include Ca²⁺ imaging, biochemistry, molecular biology and generation and use of transgenic mice for calcium biosensors by using the Crisp/Cas9 technology.

We are looking for a highly motivated individual that can develop a creative, independent approach to problems within the defined objectives of our research line. Expertise in Ca²⁺ imaging, molecular biology, cell biology and/or biochemistry is desirable. The position is immediately available for two years with option to renew. Interested, please send applications to Teresa Alonso (talonso@ibgm.uva.es), including CV and two references.

Selected recent publications from our lab:

Delrio-Lorenzo A. et al. *J Cell Sci.* 2020
Rodríguez-Prados M. et al. *Pflugers Arch.* 2020
Rojo-Ruiz J. et al. *Biochem J.* 2018
Arduino DM. et al. *Mol Cell* 2017
Alonso MT et al. *Methods Mol Biol.* 2017
Navas-Navarro P et al. *Cell Chem. Biol.* 2016
Rodriguez-Garcia A et al. *PNAS* 2014