

Predoctoral Fellowship (4 years)

The group of Juan P. Bolaños offers a **Predoctoral Fellowship (FPI, Research Personnel Training Plan)** associated to the MINECO project entitled "*In vivo Metabolic and Redox Reprogramming in Neurons as a Therapeutic Strategy against Neurological Diseases*" (reference **SAF2016-78114-R**) in the University of Salamanca (Institute of Functional Biology and Genomics, IBFG, Spain). The fellowship is for 4 years and the official call for the fellowship will be published soon on the MINECO website.

Candidates' requirements will be indicated in the call, although preference will be given to those with a higher academic record who have completed their degree studies and are currently completing or have completed the Master in an area related to Theme of the project. Any european candidate is eligible.

Interested applicants should submit their Curriculum Vitae, including the qualification of their academic record, to Juan Bolaños by email (jbolanos@usal.es). Interview will be held prior appointment.

To know about the research lines of the Group, please visit the web site at:

<http://ibfg.es/es/juan-pedro-bolanos>

Recent publications of the group include:

Lopez-Fabuel I, Le Douce J, Logan A, James AM, Bonvento G, Murphy MP, Almeida A, Bolaños JP.
Complex I assembly into supercomplexes determines differential mitochondrial ROS production in neurons and astrocytes.
Proc Natl Acad Sci U S A. 2016 Nov 15;113(46):13063-13068.

Jimenez-Blasco D, Santofimia-Castaño P, Gonzalez A, Almeida A, Bolaños JP.
Astrocyte NMDA receptors' activity sustains neuronal survival through a Cdk5-Nrf2 pathway.
Cell Death Differ. 2015 Nov;22(11):1877-89. doi: 10.1038/cdd.2015.49.

Jimenez-Blasco D, Santofimia-Castaño P, Gonzalez A, Almeida A, Bolaños JP.
Astrocyte NMDA receptors' activity sustains neuronal survival through a Cdk5-Nrf2 pathway.
Cell Death Differ. 2015 Nov;22(11):1877-89. doi: 10.1038/cdd.2015.49.

Requejo-Aguilar R, Lopez-Fabuel I, Fernandez E, Martins LM, Almeida A, Bolaños JP.
PINK1 deficiency sustains cell proliferation by reprogramming glucose metabolism through HIF1.
Nat Commun. 2014 Jul 24;5:4514. doi: 10.1038/ncomms5514.

Rodriguez-Rodriguez P, Fernandez E, Almeida A, Bolaños JP.
Excitotoxic stimulus stabilizes PFKFB3 causing pentose-phosphate pathway to glycolysis switch and neurodegeneration.
Cell Death Differ. 2012 Oct;19(10):1582-9. doi: 10.1038/cdd.2012.33.

Quintana-Cabrera R, Fernandez-Fernandez S, Bobo-Jimenez V, Escobar J, Sastre J, Almeida A, Bolaños JP.
 γ -Glutamylcysteine detoxifies reactive oxygen species by acting as glutathione peroxidase-1 cofactor.
Nat Commun. 2012 Mar 6;3:718. doi: 10.1038/ncomms1722.

Herrero-Mendez A, Almeida A, Fernández E, Maestre C, Moncada S, Bolaños JP.
The bioenergetic and antioxidant status of neurons is controlled by continuous degradation of a key glycolytic enzyme by APC/C-Cdh1.
Nat Cell Biol. 2009 Jun;11(6):747-52. doi: 10.1038/ncb1881