



# Postdoctoral position

Study the mechanisms underlying stress granules (SGs) assembly in plants

**Project:** The research on the SGs lab is focused in to understand the molecular pathways underlying formation of SGs in plants. SGs are biomolecular condensates composed of mRNAs stalled in translation initiation and a diverse repertoire of proteins. Formation of SGs minimizes stress-related damage and promotes cell survival in such evolutionarily distant organisms as mammals and plants. Despite their importance in the cell fate, the SG field is totally unexplored in plant science. The candidate will characterize from a structural, cellular and functional point of view, the protein composition of the stress granules, using *Arabidopsis thaliana* and *Nicotiana benthamiana* as model organisms.

The research work will be carried out at the Institute of Plant Biochemistry and Photosynthesis [IBVF, CSIC-University of Seville (US)]. The **SGslab** is a newly created laboratory that offers a stimulating environment and a dynamic way of working as a team. The laboratory has a highly international character, the result of numerous active international collaborations.



**Time:** 1 year and 6 months

**Starting date:** By agreement; the position is immediately available.

**Qualifications:** We are looking for a highly motivated candidate with a recent PhD degree in molecular biology, genetics, or biochemistry.

Applicants must have a strong background in (plant) molecular and cellular biology. Documented expertise in proteomics, reverse genetics, as well as cell biological approaches in the *Arabidopsis* system are highly valued. The postdoc is expected to be a team player and enthusiastically drive a research project with creativity and independent thinking.

## Recent publications:

- Gutierrez-Beltran E. et al. (2021) *EMBO J.*
- Kosmacz M. et al. (2018) *Plant Physiol.*
- Gutierrez-Beltran E. et al. (2016) *Cell Death Differ.*
- Gutierrez-Beltran E. et al. (2015) *Plant Cell.*

## CONTACT

❖ Emilio Gutiérrez Beltrán  
(egutierrez@us.es)

**For further details and info, please contact Emilio Gutierrez (egutierrez@us.es)**

