



### **Expression of Interest-Moschou Lab at the IMBB**

Our group (Moschou Lab) is looking for motivated individuals at several career stages (MSc, PhD, Technicians and PostDocs) with various expertise across disciplines (biologists, chemists, agronomists, bioinformaticians, physicists) for vacant positions in our group. For further information please contact the head of the group, Panagiotis Moschou ([panagiotis.moschou@imbb.forth.gr](mailto:panagiotis.moschou@imbb.forth.gr))

Work in our group focuses on the development of basic biological concepts using plants as models. We also strive to understand how these new concepts can be applied to build innovative products. We study the roles of proteins and RNA homeostasis in the development and perception of the environment. We are particularly interested in how the physical states of different classes of proteins and RNA dictate the basic biological processes of stem cell fate regulation, asymmetric cell division, cell polarity and regeneration. To accomplish our goals we exploit multidisciplinary approaches of imaging, molecular biology and biochemistry/biophysics.

We work in the frame of EU (e.g. Marie Curie) and nationally funded projects (e.g. HFRI) and networks, such as the COST EPICATCH. More on a breakdown of our funding and projects here: <https://pmoschoulab.wordpress.com/home/>

#### **Some relevant publications from 2020:**

*Protein Detection and Localization in Plant Cells Using Spot-Tagging. A Mentzelopoulou, C Liu, P Moschou. bioRxiv*

*Establishment of Proximity-dependent Biotinylation Approaches in Different Plant Model Systems. D Arora, NB Abel, C Liu, P Van Damme, K Yperman, D Eeckhout, ...The Plant Cell*

*Proteolytic Proteoforms: Elusive Components of Hormonal Pathways? C Liu, A Tornkvist, S Charova, S Stael, PN Moschou. Trends in Plant Science*

*Classification and nomenclature of metacaspases and paracaspases: no more confusion with caspases*

*E Minina, J Staal, V Alvarez, J Berges, I Berman-Frank, R Beyaert, K Bidle, ...Molecular Cell*