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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Christophe Bailly
Supervisor page	https://www.ibps.sorbonne-universite.fr/fr/IBPS/annuaire/54-Christophe-Bailly
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Development Adaptations and Aging https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging
Research Team	Seed Biology https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging/seed-biology

Project Title

The Role of Endosperm in Environmental Signal Perception and ROS-Driven Regulation of Seed Germination

Project Description

Seed germination is regulated by intrinsic and extrinsic factors. While the embryo's role is well studied, the endosperm is emerging as key in environmental signal perception. ROS are crucial for dormancy release and germination, but their role in endosperm signaling remains unclear. This project investigates whether ROS mediate environmental cue perception in the endosperm and if redox signals influence ROS homeostasis, as well as transcriptomic and epigenomic mechanisms in the embryo.

Keywords

arabidopsis seed germination, transcriptomics, reactive oxygen species

Description of the Host Research Lab

Dev2A builds on its long-standing expertise in many aspects of integrative developmental biology, using a wide variety of model organisms, including *C. elegans*, *Drosophila*, zebrafish, *Xenopus*, chicken, mice and plants. We also develop work on cell and tissue culture, organoids and organ-on chips.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr