



MSCA

Marie Skłodowska-Curie Actions

*Developing talents,
advancing research*

Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Mathieu Hautefeuille
Supervisor page	https://www.ibps.sorbonne-universite.fr/fr/IBPS/annuaire/14269-Mathieu-Hautefeuille
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	Dynamic and multiscale processes of auto-organisation in tissue morphogenesis https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging/dynamic-multiscale-processes-autoorganisation-tissue-morphogenesis

Project Title

Development of an in vitro microphysiological platform for the functional preservation of pancreatic islets

Project Description

After promising preliminary results showing improved preservation of rat pancreatic islets using mechanical control of explant and cell culture in a microfluidic platform, this project aims at standardizing the system for its use in the clinics with animal and human explants and cells, including complete functional and morphological characterization. The project will be conducted between a development biology lab and a human research lab.

Keywords

pancreatic islets, microphysiological system (MPS), cell and tissue culture

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
mcsa-pf@sorbonne-universite.fr