



**MSCA**

Marie Skłodowska-Curie Actions

*Developing talents,  
advancing research*

# Postdoctoral Fellowships



## CALL FOR APPLICATIONS 2025 – FELLOWS

<b>Supervisor</b>	Clément Carré
<b>Supervisor page</b>	<a href="https://www.ibps.sorbonne-universite.fr/en/ibps/directory/1900-CI%C3%A9ment-Carr%C3%A9">https://www.ibps.sorbonne-universite.fr/en/ibps/directory/1900-CI%C3%A9ment-Carr%C3%A9</a>
<b>Host Institution</b>	Sorbonne Université <a href="https://www.sorbonne-universite.fr/en">https://www.sorbonne-universite.fr/en</a>
<b>Research Lab</b>	Development Adaptations and Aging <a href="https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging">https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging</a>
<b>Research Team</b>	Transgenerational Epigenetics & small RNA biology <a href="https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging/transgenerational-epigenetics-small-rna-biology">https://www.ibps.sorbonne-universite.fr/en/research/development-adaptations-and-aging/transgenerational-epigenetics-small-rna-biology</a>

### Project Title

Intellectual Disability: Lost in Translation (IDyL)

### Project Description

The IDyL project focuses on understanding intellectual disabilities (ID) linked to mutations in the FTSJ1 gene, which affects tRNA methylation. These mutations lead to the production of tRNA fragments (tRFs), disrupting translation and neural gene decoding. The project aims to analyze patient and mouse samples to identify specific tRF biomarkers, measure changes in RNA methylation, and explore altered mRNA decoding in neurons. The ultimate goal is to validate tRFs as diagnostic biomarkers.

### Keywords

intellectual disability, RNA post-transcriptional modification – Epitranscriptomics, tRF blood biosensor

### 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](mailto:msca-pf@sorbonne-universite.fr)