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Marie Skłodowska-Curie Actions

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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Nelly Henry
Supervisor page	https://www.labojeanperrin.fr/?nhenry
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire Jean Perrin https://www.labojeanperrin.fr/?lang=en
Research Team	Micro-organisms biophysics https://www.labojeanperrin.fr/?article7

Project Title

Bacterial Biofilm Compressive Raman Imaging

Project Description

The project is aiming to deciphering the principles of bacterial biofilm assembly. Jointly supported by Laboratoire Kastler Brossel (LKB) and Laboratoire Jean Perrin (LJP), the objective is to achieve a time-resolved functional mapping of a developing biofilm implementing a combination of conventional and compressive Raman micro-spectroscopies assisted by the use of stable isotope probes (SIP) and complemented by a multiparametric computational analysis.

Keywords

bacterial biofilm , micro-raman imaging, biophysics

Description of the Host Research Lab

LJP research activities consist in Physics at the interface of with Biology and Medicine. We develop new experimental approaches to probe complex biological systems at different scales, and we develop bio-inspired systems to develop new concepts or to improve our understanding of given biological mechanisms. A large part of our research aims at exploring the response of a biological system to external perturbations. Finally, the LJP includes a theoretical component closely interacting with experimenters.

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