



Postdoctoral Fellowships

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Marie Skłodowska-Curie Actions

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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Emmanuelle Marie
Supervisor page	https://www.chimie.ens.fr/recherche/laboratoire-pasteur/physical-and-biological-chemistry-of-living-matter/people/emmanuelle-marie/
Host Institution	Centre National de la Recherche Scientifique (CNRS) https://www.cnrs.fr/en
Research Lab	PASTEUR Laboratory https://www.chimie.ens.fr/recherche/laboratoire-pasteur/
Research Team	Physical and Biological Chemistry of Living Matter https://www.chimie.ens.fr/recherche/laboratoire-pasteur/physical-and-biological-chemistry-of-living-matter/

Project Title

Photo-responsive polymer coatings for the controlled actuation of cells

Project Description

This project aims at developing a new patterned light-responsive platform based on a glass slide coated with a thermoresponsive polymer brush allowing to present or hide adhesive ligands upon light stimulation. As a proof of concept, we will use this platform to investigate the Epithelial-to-Mesenchymal Transition (EMT) which is a key process in morphogenesis, wound healing processes and diseases when misregulated.

Keywords

thermo responsive polymers, thermoplasmonic, cell adhesion

Description of the Host Research Lab

The PASTEUR Laboratory (Processus d'Activation Sélectif par Transfert d'Energie Uni-électronique ou Radiative) is a joint CNRS-ENS-SU research unit set up in 2000. Its research activity is centred on a physico-chemical approach to chemical reactivity, with the aim to understand and probe molecular mechanisms in order to develop original systems that exploit these functionalities. To achieve this, the laboratory draws on a wide range of skills in electrochemistry, photochemistry, microfluidics and biological techniques, as well as on theory and simulations. Applications cover a wide range of fields, from materials to in situ interrogation of living systems.

To submit your application, please send an email with the required documents to
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