Postdoctoral Fellowships

MSCA

Marie Skłodowska-Curie Actions

Developing talents, advancing research

SORBONNE UNIVERSITÉ

CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Roba Moumné
Supervisor page	https://www.chimie.ens.fr/recherche/laboratoire-lbm/peptides-glycoconjugues-metaux-biologie/people/roba-moumne/
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire des BioMolécules https://www.chimie.ens.fr/recherche/laboratoire-lbm/
Research Team	Peptides, Glycoconjugates and Metals in Biology https://www.chimie.ens.fr/recherche/laboratoire-lbm/peptides-glycoconjugues-metaux-biologie/

Project Title

Dynamic Combinatorial Chemistry for the Discovery of Cyclopeptide Inhibitors of Protein-Protein Interactions

Project Description

We have recently introduced an original approach for the discovery of bioactive cyclopeptides, based on dynamic combinatorial chemistry, in which amino acid's side-chains are dynamically grafted on the surface of well-ordered cyclic peptide scaffolds, leading to dynamic combinatorial libraries with the ability to reorganize through external perturbations. In this project we wish to apply this strategy to challenging protein-protein interactions, described as undruggable.

Keywords

dynamic combinatorial chemistry, cyclopeptides, protein protein interaction

Description of the Host Research Lab

The LBM laboratory (UMR 7203 ENS-CNRS-SU) is a research unit focused on biomolecules. The objectives of LBM are to analyze, understand, mimick and manipulate living systems with chemical and physico-chemical tools. Basic research activities are characterized by a continuum of skills, from the design and the chemical synthesis of biomolecules and biologically active probes/molecules, their analysis at the molecular or supramolecular level, to the evaluation of their activity in living systems.

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