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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Guillaume Vives
Supervisor page	https://ipcm.fr/recherche/presentation-equipe-gobs/composition-equipe-gobs/guillaume-vives/
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Paris Institute of Molecular Chemistry https://ipcm.fr/en/en-the-institute/
Research Team	Glycochimie organique biologique et supramoléculaire https://ipcm.fr/en/en-research/en-presentation-gobs-group/

Project Title

Switchable Molecular Tweezers for Supramolecular Gels

Project Description

We aim to develop stimuli-responsive supramolecular gels by harnessing the mechanical motion of molecular machines. Our approach focuses on leveraging the large structural reorganization of switchable molecular tweezers to precisely control their self-assembly dynamics . This innovative strategy holds great promise for creating multifunctional, time-controlled adaptive smart materials.

Keywords

supramolecular chemistry, molecular machines, gels

Description of the Host Research Lab

The IPCM (Institut Parisien de Chimie Moléculaire/Parisian Institute for Molecular Chemistry) is a joint research unit between Sorbonne Université and CNRS (Centre National de la Recherche Scientifique). The expertise in molecular chemistry in the broadest sense, the great diversity of the teams and the laboratory's high-performance technical platforms lead to research ranging from the structuring of matter on a molecular scale to materials, involving know-how in inorganic and organic chemistry, polymer science, nanoscience, and even the interfaces with biology. The scientific results of the IPCM, in relation to the major societal challenges, have an impact on fields ranging from health, the environment and new energies to information technologies.

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