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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Christophe Helary
Supervisor page	https://lcmcp.science/christophe-helary-en/
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire de Chimie de la Matière Condensée de Paris https://lcmcp.science/
Research Team	Materials and Biology https://lcmcp.science/matbio-en/

Project Title

Macroporous dense collagen/polyester hydrogels as novel implantable biomaterials to deliver anti-inflammatory molecules and promote skin wound healing

Project Description

This project focuses on developing an innovative medicated wound dressing to modulate inflammation and promote the healing of chronic cutaneous wounds. This biomaterial will integrate a collagen-based hydrogel with a drug delivery system utilizing the nanoprecipitation of biocompatible polyesters. The controlled release of anti-inflammatory drugs will promote tissue repair. Additionally, a second hydrogel layer, composed of alginate and ZIF-8 nanoparticles, will be designed to combat infections

Keywords

wound dressing, collagen hydrogel, drug delivery

Description of the Host Research Lab

The LCMCP is a well-known figure in the development of inorganic or organic-inorganic hybrid functional materials, and in the evaluation of their physico-chemical properties at different scales. These materials target applications with high societal impact, particularly in the fields of energy, health and the environment.

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