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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Souhir Boujday
Supervisor page	http://www.lrs.upmc.fr/fr/equipe-du-lrs/personnel-permanent/souhir-boujday.html
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire de Réactivité de Surface https://lrs.sorbonne-universite.fr/en
Research Team	Biointerfaces https://lrs.sorbonne-universite.fr/node/1551

Project Title

Plasmonic biosensors

Project Description

Rapid and accurate detection of undesirable and toxic substances in the human environment has become a significant need in daily life. Biosensors combine speed of analysis, cost-effectiveness, and reasonably good sensitivities and specificities. This project aims to engineer efficient biosensors using Magneto-plasmonic or quantum plasmonic nanostructures for sensitive readouts via portable spectrometers. The transducers will be integrated within microfluidic cells or lateral flow assay devices.

Keywords

biosensors, lasmonic, Spectroscopy

Description of the Host Research Lab

Research at the Laboratoire de Réactivité de Surface is focused on developing and controlling the surface of inorganic materials (such as metal oxides) for applications in heterogeneous catalysis (pollution control, “green” processes, upgrading of bio-sourced molecules or pollutants) and biointerfaces (biosensors, anti-biofilm surfaces, biopiles, prebiotic chemistry).

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