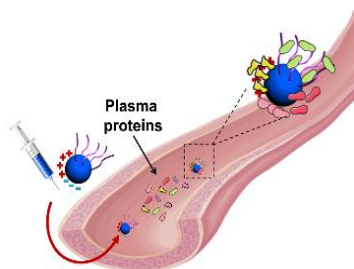


## Postdoctoral researcher position: Nanoparticle biological identity investigation

In the framework of the [EMERGENCE@INC](#) project, the [Institut Galien Paris Saclay](#) (Team [Nanomedicine for treatment of severe diseases](#)) is inviting applications for a postdoctoral researcher position.

The interaction of intravenously administered nanomedicines with nonspecific molecules/proteins in the blood modifies their synthetic surface and makes them acquire a novel biological surface which will strongly influence their in vivo fate.

In this context, we are looking for a motivated full-time post doc to work on the **investigation of the behavior of nanomedicines in biological media and to elucidate the role of hydrodynamics (e.g., flow velocity, shear stress) on the acquisition of the biological surface.**



Schematic of the NP/proteins interactions responsible of the acquisition of a specific biological identity as a function of the NP physico-chemical properties.

### Project aims

- Formulation and characterization of a library of polymer nanoparticles (NPs) with different physico-chemical properties (e.g., size/surface chemistry/shape)
- Investigation of NP interaction with biological media (e.g., protein solutions, plasma, whole blood) under flow
- Evaluation of NP/protein interactions (e.g., protein adsorption, NP aggregation, disassembly)

### Your Profile

The applicant must possess solid skills in the field of polymer nanocarriers synthesis and physico-chemical characterization as demonstrated by his/her publication record, including at least one first authorship. Expertise on proteomics, fluid dynamics, circular dichroism and/or small angle x-ray scattering is an asset.

The candidate must be proficient in oral and written English.

We are looking for candidates interested to work in a multidisciplinary research environment, who have excellent communication skills and are team-oriented, focused, self-motivated, trustworthy, critical and open-minded.

### Application

We exclusively accept applications submitted through our online application portal. <https://bit.ly/379c9wv>

The application must be in English and include a curriculum vitae with names and contact information of 3 referees, a complete list of publications and a statement of research interest. The application documents must be sent as a single PDF file. Incomplete applications will not be considered for evaluation.

Applications will be reviewed as they are received until the position is filled.

**Employer:** CNRS

**Starting date:** (As soon as possible, 1<sup>st</sup> March 2021 at latest) **Duration :** 12 months

**Location:** [Institut Galien Paris-Saclay](#), UMR CNRS 8612, 5 rue JB Clément, 92290, Châtenay-Malabry, France

Part of the research will be carried out at the [NIMBE Lions laboratory](#) (CEA, Saclay) in collaboration with Dr Patrick Guenoun and Dr Frederic Gobeaux

For enquiries about the position, please email [Dr Simona Mura simona.mura@universite-paris-saclay.fr](mailto:simona.mura@universite-paris-saclay.fr) with the subject "INCEmergence\_postdoc"