

Centre de recherche Saint-Antoine, Inserm UMR_S 938 – Post-doctoral position on anti-tumor metallodrug characterisation

In the frame of the INCa PCSI funded project “DESIR”: Deciphering intracellular toxicity mechanisms Elicited by half-Sandwich Iridium complexes, a 12-month post-doc position starting in spring 2023 is available in the “TGF beta signaling, cellular plasticity and cancer” group of the Inserm Unit 938 in Paris.

Contact : Pr Joelle Sobczak, email : joelle.sobczak@inserm.fr

Text of the Call:

Research Center Overview

The Saint-Antoine Research Center (CRSA) is a collaborative institute within Sorbonne University and the P. & M. Curie Faculty of Medicine in Paris. CRSA offers a multidisciplinary environment organised in two main departments: Oncology/Haematology and Metabolism/Inflammation. We are comprised of biologists, biomedical engineers, computationalists, and clinicians conducting groundbreaking translational research.

Function/Duties of Position

We are seeking a highly-motivated **Postdoctoral Fellow** to work with researchers in the DESIR program at CRSA. This program is focused on deciphering the intracellular targets of new iridium-based drugs developed as anti-cancer therapies. You will work closely with Pr. Joëlle Sobczak and other researchers participating to the program at IPCM, Institut Curie and IBPC, to understand the consequences of drug treatment on identified protein targets. You will apply and develop *in vitro* assays, imaging and proteomic tools to understand how iridium-based drugs alter protein function and cell behaviour.

As a Postdoctoral Fellow you will address the following general themes:

- Investigate fundamental biological processes of tumour vs non-tumour cells. Current interests include deciphering the consequences of iridium-based drugs on cell adhesion, migration and division. CRSA researchers have unique access to flow cytometry and imaging facilities to test emerging hypotheses. The team has previously developed *in vitro* and *in vivo* approaches to understand mechanisms of action of iridium-based drugs (Ramos et al, 2020 Dalton Trans and Ramos et al., 2021, J. Med. Chem.)
- Develop existing or novel technologies with the aim of accurately monitoring biological processes *in vitro* with purified proteins. Of particular interest is integrating *in vitro* activities of the tested drugs, with *in vivo* informations and proteomics.

Required Qualifications

- PhD in relevant field such as molecular biology or biochemistry
- Passion for science and inquiry
- Ability to prioritize multiple tasks at one time

- Must have excellent communication, analytical and organizational skills: both written and verbal
- Ability to work independently and as part of a team while being collaborative in resolving problems
- Must be proficient with computers running applications e.g. MS Excel, Image J, Word and PowerPoint
- Ability to use tact and diplomacy to maintain effective working relationships

Preferred Qualifications

- Ability to synthesize scientific projects and communicate science to diverse audiences
- Experience with biochemistry and imaging in cancer research
- Experience with mass spectrometry data analysis

Additional Details

Apply by email to joelle.sobczak@inserm.fr. Please be sure to upload a Cover Letter and Resume/CV.

Effective March 2023