

Post-doctoral position available in the “Chromatin remodeling” ATIP-Avenir group at the INSERM U981 - Gustave Roussy Cancer Centre

INSERM-CNRS-funded contract available for 2 years, +/- 1 extra year

A post-doctoral position is available in Sophie Postel-Vinay's ATIP-Avenir group at U981 INSERM as of February 2018 to work on therapeutic approaches to target chromatin remodeling deficiencies in solid tumors.

Recent large scale tumor genomic profiling studies have uncovered mutations in several chromatin remodeling genes, notably SWI/SNF (Switch / Sucrose Non-Fermentable) subunits, in approximately 20% of all solid tumors, highlighting its pivotal role in tumorigenesis and making it a potential target for cancer therapy. While chromatin remodeling deficiency has been extensively studied in tumorigenesis, little is known about how to selectively target defects in the SWI/SNF-chromatin remodeling complex, and no targeted drug is approved to date in such indication.

The INSERM/CNRS-funded research programme will focus on identifying novel therapeutic approaches for targeting SWI/SNF deficiency, using hypothesis-based and hypothesis-generating approaches. The selected post-doctorant will be involved in identification and the molecular dissection of genetic vulnerabilities of chromatin-remodeling deficient tumors. The programme will be developed at the basic research and fundamental level, as well as at the translational level thanks to a direct collaboration with the Drug Development Department of Gustave Roussy's Hospital. If relevant, results of the program could lead to clinical applications at Gustave Roussy. The INSERM U981 Unit is fully equipped to allow the development of such program, both for preclinical and *in vivo* studies.

Keywords: cancer, solid tumors, chromatin remodeling, targeted therapy, genetic vulnerability.

Applicant's profile

- Strong scientific track record (international publications and communications)
- Robust experience with molecular and cell biology techniques; experience in the study of chromatin biology and transcriptional or epigenetic dysregulation; bioinformatics notions will be of added-value
- Ability of collaborative team work and autonomous work
- High motivation
- Fluency in English

Application

- Curriculum vitae (including list of publications and communications)
- Motivation letter describing previous experiences and reasons underlying the application
- Contact information for referees or previous mentors

Applications should be sent to Dr Sophie Postel-Vinay (sophie.postel-vinay@gustaveroussy.fr)