Post-doctoral position at the Institute of Genetics and Molecular and Cellular Biology (Illkirch, France) in the team of Daniel Metzger

Project: “Tissue specificity and molecular crosstalk of steroid hormone receptors”

**Aim of the project.** The project aims at understanding the molecular mechanisms underpinning the tissue specificity and the crosstalk between steroid hormone receptors through integrative analyses. Our team has recently developed projects based on genome-wide characterization of transcription factor cistromes and transcriptomes in various tissues of genetically modified mice, thereby providing the unique opportunity to decipher the *in vivo* mode of action of nuclear receptors. The fellow’s tasks will be to identify tissue-specific receptor partners and characterize the associated epigenetic marks using cutting-edge technics like Atac-seq, Hi-C and Rapid Immunoprecipitation Mass Spectrometry (RIME). Genome-wide data obtained in various tissues will be strengthened in *in vitro* models to delineate these complex molecular mechanisms.

The project will be developed at the Institute of Genetics and Molecular and Cellular Biology (IGBMC), the largest French academic research unit, involving INSERM, CNRS and the Strasbourg University. The institute develops interdisciplinary research at the interface of biology, biochemistry, physics and medicine, hosts state-of-the art scientific services and technological platforms, and attracts students from around the world by offering high-level education in biomedical sciences. IGBMC is located at the “Parc d’Innovation d’Illkirch”, an exceptional scientific, academic and industrial environment next to Strasbourg.

**We offer a 2-year contract,** starting September 2020, with the possibility of extension. Remuneration and social benefits will be based on the CNRS agreement for public-sector employees. The applicant will be involved in a multidisciplinary group including basic scientists, pathologists and bioinformaticians, integrated in international collaborations. She/he will have access to various technologies to perform this scientific project with high clinical relevance.

**Requirements.** Applicants should have a PhD in biological science, a strong background in molecular biology with a sound knowledge in transcriptional regulation and chromatin remodeling.
Your responsibilities will include:

- Molecular biological assays on tissues of genetically modified mice (ChIP-seq, Atac-seq, imaging, …)
- Establishment of new genome-wide techniques using in vivo models
- Bioinformatics analyses

Your application. Candidates should send a curriculum vitae with a publication list, a short summary of research achievements and mastered techniques, as well as contact information of at least two references to metzger@igbmc.fr.

Selected publications of the team:


