

**Group “Genetics, Epigenetics and Biology of Sarcomas” (Dir. Franck Tirode).  
Cheney B building, 3rd floor, Centre Léon Bérard, 28 Rue Laennec, 69008 Lyon, France.**

**Post-Doc in Bioinformatics (18 months)  
Integrative molecular analyses of unclassified sarcomas**

Description:

In the frame of a PRT-K 2018 INCa-DGOS-sponsored project, we offer an 18-months position for a highly talented post-doc in the field of bioinformatics applied to Next Generation Sequencing. The project aims at identifying the molecular alterations and defining the precise tumor subtype of a large series of “still unclassified” sarcomas using multidimensional and integrative data analysis approaches. We will perform RNAseq, WES and ATAC-seq that the successful candidate will mine to identify known and novel oncogenic alterations and to achieve robust classification. Results from these analyses will be coupled to clinical and pathological information, to identify specific patterns correlated with clinical information (status, relapse or metastasis) using machine learning methods (both supervised or unsupervised). The candidate will also participate to the other projects of the group, especially involving ChIP-seq and single cell bioinformatics analyses.

Requirements:

Applicants should have a PhD in computer science or bioinformatics, with prior experience in Next Generation Sequencing analyses. A good knowledge in statistics or machine learning techniques is mandatory as well as an experience in programming (bash, R, perl, C or python). Previous knowledge in cancer biology and genetics would be an advantage but is not mandatory. Good communication skills in English are also required.

The environment:

The “Genetics, Epigenetics and Biology of Sarcomas” group aims at identifying and investigating new alterations in sarcomas to unravel new oncogenic mechanisms. We are affiliated to the Cancer Research Centre of Lyon (CRCL – INSERM U1052 / CNRS 5286) and to the Centre Léon Bérard’s Department of Translational Research and Innovation. The CRCL is amongst the most prestigious cancer research center in France and the CLB is a major reference cancer center, especially for sarcomas. Our group is therefore composed of both researchers, clinicians and pathologists. The successful applicant will also strongly interact with the “Gilles Thomas” bioinformatics facility (Dir. Alain Viari).

Duration of this position is 18 months (potentially renewable once). The successful applicant is expected to start during the summer and not later than the 2<sup>nd</sup> of September 2019.

Please send a cover letter describing your research interests, a detailed CV mentioning skills and achievements and reference letters to: [franck.tirode@lyon.unicancer.fr](mailto:franck.tirode@lyon.unicancer.fr)

Application deadline: June the 16<sup>th</sup>