Computational Biologist: Onco-immunology

Caux Laboratory "Therapeutic targeting of the tumor cells and of their immune stroma", Cancer Research Center of Lyon (CRCL)
Gilles Thomas Bioinformatics Platform (Cancer Centre Leon Berard, CLB)

We are seeking a **Computational Biologist** to join C Caux's team (CRCL) to work on onco-immunological projects in close collaboration with the Gilles Thomas Bioinformatics Platform (Dr Pierre Saintigny – Dr Alain Viari, CLB). General objectives of the team are to identify key immunosuppressive and immune surveillance mechanisms induced by tumors, and to better understand the respective roles of immuno-regulatory receptors (immune checkpoints) in physiological and pathological situations to develop new drugs and combinatorial therapeutic strategies.
Contract: **3 years** (1 year contract + 2 years renewable)

Responsibilities:
The successful applicant will integrate a team of immunologists and work in close collaboration with the Gilles Thomas Bioinformatics Platform to develop and implement bioinformatics tools to study the role of various immune cells/pathways within the tumor microenvironment, to discover immunosurveillance mechanisms by comparing early versus advanced tumoral stages, and to perform correlative studies between immune and clinical parameters. The two main objectives of the applicant will be to: 1/ describe and assess the existing statistical and bioinformatics approaches for the analysis of various -omics data using public datasets (cancer databases such as TCGA, immune databases such as immgen) and implement a complete analysis solution (mixing existing and if necessary new tools and or methods) for each omic data type of interest; 2/ implement pipeline for the analysis of RNA-Seq data generated by the team.

The duties also include:
- Analysis of large datasets, script generation, development of new methods/tools for advanced analysis of datasets
- Consulting for NGS experimental design
- Define and handle the data management processes
- Support research project through scientific monitoring, assistance with papers, grant application and scientific meeting presentations

Qualifications:
The successful candidate will have a PhD with a solid background in bioinformatics, biostatistics, and bioanalysis and the ability to work in a multidisciplinary research environment. The individual should be highly motivated and be able to work independently, while being able to communicate effectively. The candidate should have publication record in well-regarded journals. Knowledge of tumor immunobiology will be considered as an advantage.

Interested applicants should send a cover letter and their CV, including the contact information of two professional references, to Jenny VALLADEAU (jenny.valladeau@lyon.unicancer.fr).

The closing date for applications is June 15th 2018.