

Postdoctoral position (2 years) – Bordeaux, France

Molecular biology of sarcoma (cancer)

The Cancer center of Bordeaux (Institut Bergonié) is a tertiary care center for cancer patients which hosts, along with the clinical hospital, 3 research teams of the research unit INSERM U1218, devoted to basic and translational research on various types of cancer including Sarcoma. The postdoc position on offer is devoted to sarcoma research with a multidisciplinary approach and implies a specific interaction with Dr François Le Loarer's team.

Position	Postdoctoral position (2 years)
Research Unit	Inserm U 1218, ACTION, The Lab is supported by BRIO (Bordeaux's SIRIC or integrated cancer research site) Lab director: Pierre SOUBEYRAN, MD, PhD, Professor The Lab is located at INSTITUT BERGONIE Hosting Group: SARCOTARGET Group, Coordination: Antoine ITALIANO, MD, PhD, Professor
Main team of interaction with the postdoc	François Le Loarer, MD, PhD, Assistant Professor Jessica Massière, PhD, engineer Audrey Michot, MD-PhD student
Composition of the sarcoma research team hosted in the lab	The whole team includes <ul style="list-style-type: none"> - 1 Post-Doc - 3 full time engineers - 2 MD-PhD student - 1 Undergraduate (Master) - 1 Technician - 8 Bioinformaticians
Location of the position	Institut Bergonié, Bordeaux - France
Contract type	CDD
Starting date	Position available immediately
Duration	Dur. 2 years
Main missions of the position Description of the project	Infos regarding the team The position is funded by the SIRIC BRIO (Bordeaux Recherche Intégrée en Oncologie), a national funding granted to the host laboratory. The postdoc will work with the subgroup devoted to translational research in sarcomas which has currently 2 main focus: 1) Identification of fusions in sarcomas 2) Study of the transcriptomic features of sarcomas for purpose of classification based on expression profiles and identification of diagnostic

<p>Main missions of the position Description of the project (following)</p>	<p>biomarkers.</p> <p>The team aims to develop further additional topics which will be supervised by the postdoc that may include, depending on the postdoc interests and skills: proteomic identification of new diagnostic biomarkers in sarcomas, Data digging of transcriptomic data (>500 sarcomas have been studied by whole RNA-seq by our group), functional validation of new gene fusions identified in unclassified sarcomas, epigenetics features of sarcomas (development of methylation-seq of an exploratory cohort of sarcomas). The postdoc will be able to get familiar with sarcoma biology in this context and may develop his/her own projects, depending on his/her skills and main areas of interest.</p> <p>Infos regarding sarcomas</p> <p>Our institute is one of the three national reference centers for the diagnosis and management of sarcoma patients in France, giving a large access to sarcoma tissue samples, despite the rarity of these cancers. Sarcomas are malignant mesenchymal tumors representing roughly 1% of all cancers and are characterized by their biological diversity with more than 70 different subtypes. The therapy of sarcomas has been impacted as other cancers by the identification of targetable gene fusions or mutations and the advent of immunotherapy.</p> <p>Infos regarding the local resources</p> <p>The Lab has access to sarcoma cell lines (n= 67), fresh and frozen samples of sarcomas, archival specimens of sarcomas (FFPE samples), and whole RNA-seq data of >500 sarcoma cases, genomic profiles (a-CGH Agilent or Affymetrix) of >300 sarcomas. Due to their rarity, research on sarcomas in France has been structured within a national network of diagnostic and research labs (GSF GETO group, François Le Loarer being one of the referring pathologists) present across the whole territory to interact with.</p> <p>Infos regarding the Sarcoma team to interact with:</p> <p>The group is part of the Sarcoma team coordinated by Antoine Italiano focused on translational research to identify and validate <i>in vitro</i> and <i>in vivo</i> new targets in sarcomas.</p> <p>Infos regarding the whole Lab INSERM U 1218</p> <p>U1218 is a multisite laboratory that hosts 3 groups dedicated to specific topics, including “VINTAGE” group (validation of new targets in aging in cancer : David Santamaria, Frederic Delom, Pierre Vacher, Jacques Robert), MLO group (genetic diversity and treatment response in breast and lymphoid malignancies: Catherine Sawai, Béatrice Turcq, François-Xavier Mahon, Richard Iggo) and SARCOTARGET group (Antoine Italiano, François Le Loarer).</p>
<p>Candidate requirements</p>	<p>Language: English French is not required to apply. Degree requirement: PhD Recommended skills in molecular genetics, omics/ NGS data, bioinformatics, transcriptomic studies, cancer research, cancer genetics Optional skills: sarcoma biology knowledge is optional</p>
<p>How to apply</p>	<p>Applications to send by e-mail to Dr François Le Loarer : f.le-loarer@bordeaux.unicancer.fr with CV and contact details from 2-3 referees</p>