2-year postdoctoral position in lymphoma biology and single cell genomics
Centre d'Immunologie de Marseille Luminy, France

Context

The laboratories of S. Roulland/B. Nadel and of P. Milpied at the Centre d'Immunologie de Marseille-Luminy (http://www.ciml.univ-mrs.fr, Marseille, France), experts in B cell lymphoma biology and single-cell genomics, have launched a joint research program to create a single-cell atlas of two of the most frequent mature B cell lymphoid malignancies in adults. In this project, we aim to dissect and model the cellular heterogeneity of malignant B cells in two genetically heterogeneous disease and assess the functional dynamics operating in these cells in relation to their immune microenvironment. Through cross-analyses with clinical annotations, we also aim to decipher the biological mechanisms underlying disease progression, relapse and resistance to therapy.

Qualifications

We are seeking an enthusiastic and very talented postdoc to embark with us on this ambitious project to define lymphoma heterogeneity at an unprecedented scale. The candidate must hold a PhD in immunology, genetics or cancer biology with excellent technical skills in molecular biology, cellular immunology and ideally previous experience with single-cell technologies and NGS approaches. A scientific background in immunology or onco-hematology would be a plus. Candidates with interests in innovative technology developments and notions of computational biology are encouraged to apply in order to nourish the interdisciplinary spirit of the teams. The candidate should have a proven track-record of successful independent working. The position further requires organizational qualifications and the ability to communicate effectively with internal and external collaborators.

Missions

The candidate will be expected to play a lead role in:

(i) deploying the latest single cell approaches to build up the lymphoma atlas from clinically annotated human biopsies combining transcriptomic, proteomic and BCR/TCR immune repertoire
(ii) developing multidimensional proteomic analysis by flow cytometry
(iii) interpreting biological and clinical data in collaboration with computational biologists
(iv) following-up on key findings using appropriate cellular/molecular/imaging tools to validate the molecular signatures or biomarkers.

Offer

The position is for 2 years full-time, available immediately and funded by the "Plan Cancer" from the French National Cancer Institute (INCa). You will work with enthusiastic group leaders and join an already cross-disciplinary group composed of immunologists, experts in lymphoma biology, clinicians and computational biologists. On a daily basis, the post-doc will collaborate with a research engineer and interact

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with computational biologists. Salary is based on qualifications and professional experience according to INSERM rules.

Environment

The successful candidate will join the Centre d'Immunologie de Marseille Luminy, a public research institute dedicated to immunology, located in the south of Marseille, France, at the gates of the beautiful Calanques National Park. The institute gathers a world-class international scientific community and provides access to state-of-the art core facilities (http://www.ciml.univ-mrs.fr/immunology-nanoscience-system-biology) in order to pursue outstanding studies at the frontier of the oncology and immunology fields, as well as career development and ample opportunities for collaborations with international immunologists, clinicians and industrial partners.

Candidates should send their application (single pdf file) to Sandrine Roulland (roulland@ciml.univ-mrs.fr) and Pierre Milpied (milpied@ciml.univ-mrs.fr) explaining their motivations to join the project along with a CV and contact for appropriate referees.

References

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