

Post-Doctoral position- Immunobiology of Stromal Cells

(Team Marc Bajénoff)

The « Immunobiology of Stromal Cells » group at the Centre d'Immunologie de Marseille Luminy (CIML- France) wishes to recruit an ambitious, highly qualified postdoctoral fellow to work on macrophages and their niches. This position is available for 36 months, with a starting date in May 2020.

The successful candidate will work in the context of an ANR project lead by Dr. Marc Bajénoff.

Summary :

Immune cells distribute throughout all tissues to protect our body from pathogens. It has long been acknowledged that macrophages ($M\phi$) decorate the outer surfaces of blood vessels and regulate their functions. However, the molecular identity of this crosstalk is largely unknown. In particular, we are missing a detailed understanding about how different vessel types and vascular components shape a specific niche to influence the identity and function of these perivascular macrophages. By using *in situ* imaging in combination with mouse genetics and state-of-the-art transcriptomics, we will investigate (a) the functional role of specific blood vessel components (endothelial cells, pericytes, vascular smooth muscle cells, nerves) in regulating the homeostasis and defining the phenotype of perivascular $M\phi$, and (b) the signals and molecules which control the perivascular localization of these cells.

We are looking for a candidate with a strong background and expertise in immunology, imaging and flow cytometry. Highly motivated candidates with interests in the fields of stromal immunology, innate immunology, developmental biology and imaging are welcome to apply.

The successful candidate will join an international, collaborative and dynamic team with extensive scientific exchange and benefit from the excellent scientific environment within the CIML, its state of art research facilities and expertise in flow cytometry, imaging and computational biology.

Requirements

- Ph.D. in immunology or developmental biology.
- Expertise in multicolor flow cytometry, confocal imaging, mouse models. Previous work with tissue resident cell populations is an asset but not required.
- Excellent communication skills.
- Knowledge of RNA-seq analysis tools is preferred, but not required.

Applicants should submit curriculum vitae, brief description of research accomplishments and career goals, list of publications, and the names of two referees into a single document to bajenoff@ciml.univ-mrs.fr