A postdoctoral position is available in the laboratory “Macrophages and Endothelial Cells”, at the Developmental and Stem Cell Biology Department in the Institut Pasteur (Paris, France) (http://www.revive.fr/en/elisa-gomez-perdiguero). We are interested in the role of ‘resident’ macrophages during development, homeostasis and tissue repair. Within the hematopoietic system that produces all blood cells, tissue ‘resident’ macrophages are a lineage of myeloid cells that arise from yolk sac-derived progenitors and that self-maintain in their tissue of residency, independently of adult hematopoietic stem cells (HSC).

Resident macrophages from the same lineage, such as liver Kupffer cells, brain microglia, epidermal Langerhans cells, lung alveolar macrophages..., display tissue-specific phenotypes, perform tissue-specific functions and have distinct gene expression profiles. Thus, resident macrophages are a unique system where the respective contributions of ontogeny and environment can be investigated.

We are looking for an enthusiastic and motivated postdoctoral fellow to participate to the study of the development and lineage-specific function(s) of resident macrophages in vivo. By combining diverse techniques from the fields of immunology and developmental biology (flow cytometry, confocal microscopy and fate mapping models), the candidate will study the development of tissue resident macrophages and their interaction with endothelial cells during development and in response to tissue damage.

The ideal candidate will have a solid background in developmental and molecular biology (including prior work with genetically engineered mice or zebrafish), confocal microscopy and a strong interest in vascular and/or macrophage biology. Experience with vertebrate embryology models is strongly preferred. Candidates must hold a PhD or MD/PhD degree, have prior publications, have excellent scientific and organizational skills, be able to work in collaboration, and have good English language skills for presentations and writing scientific papers.

Competitive salary and excellent work environment at Institut Pasteur. Please send a CV, statement of research interests and names and contact information of three references to: elisa.gomez-perdiguero@pasteur.fr

Bibliographical references related to the project (Team publications)

