



Post-Doctoral Position in Integrative Biology and Vascular Disease in Paris

Team: Integrative biology of arterial diseases and their genetic risk factors.

Project overview: Our research program focuses on the role of ADAMTS in the vascular remodelling of thoracic aortic aneurysms (TAA). The main objective is to establish a pathogenic signature of aortic dilatation through single-cell RNA sequencing analysis and histological phenotyping of aortic tissue biopsies from patients with TAA. This project will allow us to highlight the major role of the ADAMTS family in TAA development and to provide new insights into the mechanisms underlying the development of aortic dilatations. In increasing pathogenic disease knowledge and validating specific cellular alteration, this work will open the way to novel therapeutic research.

The laboratory is specialized in vascular biology (please visit our website at <https://lvts.fr>) through a translational approach using in vitro (patient cells and relevant cell lines) and in vivo (mouse) models. The team aims to improve its knowledge of the mechanisms involved in TAA formation. This project is in collaboration with Pr. Laurent Duca (laurent.duca@univ-reims.fr) at the MEDyC Research Unit (Reims, France).

Our institute, the LVTS - 'Laboratory for Vascular Translational Science' - is one of the leading cardiovascular research centers in Paris, with excellent core on-site facilities.

Candidate profile: We are seeking a highly motivated candidate to join our dynamic team with required knowledge and skills :

- a PhD and 0-3 years of relevant postdoctoral experience.
- experience in molecular and cell biology, notably in single-cell transcriptomics
- a strong track record of publications in the field

Other skills include excellent communication, good time organization, and the ability to work collaboratively.

Location: in the Laboratory for Vascular Translational Science at Bichat Hospital, INSERM U1148, Paris, France

Duration: 2 years

Employer: INSERM (French Institute of Health and Medical Research) through a grant from the "Agence Nationale de la Recherche" (ANR) for the project RAVA.

Contact: Interested candidates are invited to provide a single PDF document containing a motivation letter with previous research, a Curriculum Vitae, a publication list, and contact details for at least 2 references to: Dr. Carine Le Goff carine.le-goff@inserm.fr Tel. +33 1 40 25 75 21