

## Post-Doctoral Position in Extracellular Matrix Biology and Vascular Disease in Reims

**Team:** Matrix Aging and Vascular Remodelling - UMR CNRS 7369 MEDyC

**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 provide new insights into the mechanisms underlying the development of aortic dilatations. In increasing pathogenic disease knowledge and validating specific cellular alterations, this work will open the way to novel therapeutic research.

Our lab, UMR CNRS 7369 MEDyC – “*Extracellular Matrix and Cell Dynamics*” – is an international leader in Extracellular Matrix (ECM) Biochemistry and Biology (please visit our website at <https://medyc.cnrs.fr/>). We study cell-ECM interactions and ECM remodelling from atomic and molecular analysis to pre-clinical models (WT and transgenic mice models). This project is in collaboration with Dr. Carine Le Goff ([carine.le-goff@inserm.fr](mailto:carine.le-goff@inserm.fr)) at the LVTS (“*Laboratory for Vascular Translational Science*”) Research Unit (INSERM U1148, Paris, France).

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

- a PhD and 0-3 years of relevant postdoctoral experience.
- A strong experience in Extracellular Matrix Biology, Biochemistry, Histology and Imaging, as well as in molecular and cell biology. An experience in biological nanomechanics characterization (AFM) would be an advantage.
- a strong track record of publications in the field

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

**Location:** UMR CNRS 7369 MEDyC lab, Reims, France

**Duration:** 18 months

**Employer:** URCA (University of Reims Champagne-Ardenne) 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: Prof. Laurent DUCA ([laurent.duca@univ-reims.fr](mailto:laurent.duca@univ-reims.fr), +333.26.91.89.39)