



Post-doctoral position in Vascular Biology

The position

A two-years postdoc position is available in the group of Prof. Alessandro Fantin (Department of Biosciences, University of Milan) to study novel mechanisms in Vascular Biology by exploiting microfluidic devices, in vivo models and single cell studies. The position is funded by a competitive salary supported by a private foundation. Starting date: February 2023.

Qualification

The postdoctoral researcher will be a highly motivated and career-oriented research fellow with a high level of independence and a PhD degree in molecular, cellular or developmental biology, or equivalent.

Experience with tissue culture and mouse in vivo handling is essential. Expertise in transcriptomic profiling and mouse surgery will provide a selective advantage.

Candidates possessing excellent analytical, organizational and communication skills in spoken and written English must be able to work independently as well as with interdisciplinary teams.

The project

The formation of blood vasculature (angiogenesis) is a physiological process during development. However, angiogenesis can be stimulated following injury or during certain diseases, such as solid tumours and neovascular eye diseases. Instead, the formation of new vessel circuits can compensate for the lack of blood flow following ischemia. The [laboratory of Vascular Physiology](#) is interested in understanding how macrophages and endothelial progenitors promote angiogenesis during development and in neovascular diseases.

Lab webpages:

<http://www.fantinlab.unimi.it/>

<https://bioscienzebio.unimi.it/gruppo.php?id=54>.

Relevant lab publications:

[Tacconi et al., *Angiogenesis* 2022](#); [Plein et al., *Nature* 2018](#); [Liyanage et al., *Arter Thromb Vasc Biol* 2016](#); [Fantin et al., *Nature Protocols* 2013](#); [Fantin et al., *Blood* 2010](#).

The environment

The laboratory of Vascular Physiology is part of the Department of Biosciences, which has recently gained the “Department of Excellence” award and financial support by the Italian Ministry of Education, Universities and Research (MIUR). The department is an international environment with a wide expertise, including bioinformatics and cellular, molecular and structural biology, offering an exceptional research environment and access to cutting-edge [departmental advanced facilities](#) and four [University Unitech platforms](#).

Finally, the lab is located in Milan, a cosmopolitan city, which has been [ranked number one for quality of life in Italy](#).

Interested candidates should submit their application including CV, a cover letter with description of research interests and the contact information of at least two referees to Alessandro Fantin at alessandro.fantin@unimi.it.