



Two Post-doctoral positions in Vascular Biology (assegno di ricerca)

The positions

One three-years postdoc and one one-year postdoc positions in Vascular Biology are available at the Department of Biosciences of the University of Milan, in the group of Dr. Alessandro Fantin.

The positions are funded by a competitive salary supported by a private foundation and departmental funds.

Qualification

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

Experience with tissue culture and mouse or zebrafish 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 (<https://bioscienzebio.unimi.it/gruppo.php?id=54>) is interested in understanding how macrophages and myeloid progenitors of the immune system promote angiogenesis during development and in neovascular diseases.

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

Publications of the lab relevant for this project: 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 (<https://bioscienzebio.unimi.it/facility.php>) and four University Unitech platforms (<https://www.unimi.it/en/node/503>).

Finally, the lab is located in Milan, a cosmopolitan city, which has been ranked number one for quality of life in Italy: <https://www.turismo.milano.it/wps/portal/tur/en>.

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.