



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



Ministero dell'Università e della Ricerca



European
Research
Council

Postdoctoral position

MECHANICAL AND METABOLIC SIGNALING IN ANGIOGENESIS

The laboratory of Prof. Massimo Santoro at Dept. of Biology, University of Padua and Venetian Institute Molecular Medicine (<https://massimosantorolab.com>) is seeking for a postdoc fellow to study **MECHANICAL SIGNALING AND METABOLIC PATHWAYS IN ANGIOGENESIS**. Using human and mouse genetic approaches as well as advanced molecular and metabolic techniques we want to elucidate how endothelial signaling and metabolism regulate translation and epigenetic in angiogenesis and vascular maturation. The project will focus on the role of specific metabolites and signaling pathways recently identified by our laboratory (Donadon and Santoro, *Development*, 2021; Camillo et al., 2021, *J. Cell Biol.*; Facchinello, Astone et al., 2022, *Nature Metabolism*; Oberkersch et al., 2022, *Developmental Cell*, in press). We have acquired strong experience in biochemistry, genetic, molecular and cellular biology of endothelial and mural cells in different vertebrate animal models and human primary cells. Mouse animal facility, single cell RNA-seq, STED, multiphoton, light sheet microscopy equipment, and metabolic/proteomic core facilities are available in the laboratory and department for these studies.

The **post-doc candidate** must be highly motivated, enthusiastic and efficient researcher with a PhD in a relevant discipline and experience in genetic, molecular and cellular biology methods (priorities will give to candidates with already established expertise in mouse and zebrafish genetic). The candidate needs a publication record in peer-reviewed international journals (including at least one paper as a first author). The candidate must be capable of working in a team as well as independently. The candidate is expected to independently establish all necessary techniques, introduce new technology, coordinate ongoing collaborations, and instruct other scientists. Excellent communication skills in spoken and written English are required.

Please visit these website for further information about us: www.massimosantorolab.com.

Contact

Please send your CV, letter of motivation, and the contact information of at least two references to Prof. Santoro at massimo.santoro@unipd.it. Position is available in summer 2022.