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## ***PhD and Postdoctoral positions***

### **METABOLITE SIGNALING IN HEALTHY AND DISEASED 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 PhD student and a postdoc fellow to study **METABOLITES AS SIGNALING MOLECULES IN ANGIOGENESIS**.

Using human and mouse genetic approaches as well as advanced molecular and metabolic techniques we want to elucidate how endothelial cell metabolism regulate translation and epigenetic in angiogenesis and vascular maturation (Donadon and Santoro, *Development*, 2021, in press). The project will focus on the role of specific metabolites and metabolic signaling pathways recently identified in our laboratory (Oberkersch et al., 2020, in revision; Facchinello et al., 2020 in revision). Our laboratory has 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 equipments, 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 an outstanding publication record in peer-reviewed international journals (including at least one paper as a first author in top-journal). 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.

Applicants for a **PhD position** should hold a Master degree in biomedical sciences, bioengineering, medicine or any related discipline. Motivated students of all nationalities with a strong commitment to basic and/or clinical research are invited to apply. Any experience in molecular biology, cellular and developmental biology, biochemistry, cell culture, metabolism, etc. is an advantage. The candidate should have well-developed social skills and be able to work in a team. Interest in the field of angiogenesis, cell signaling and metabolism will be an additional asset. Applicants should have good communication skills in spoken and written English.

We offer a dynamic working environment, stimulating scientific surrounding in a young, enthusiastic, motivated team (with English as main language) and the opportunity to work on high-impact projects. We offer a competitive salary (European Marie Curie Fellow range) and social security contribution.

#### **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](mailto:massimo.santoro@unipd.it).