ERC-funded *Postdoctoral Scientist fellowship*

**SIGNALING IN ANGIOGENESIS**

*Laboratory of Angiogenesis and Redox Metabolism*

*Dept. of Biology, University of Padua, Italy*

The laboratory of Prof. Massimo Santoro, Department of Biology at the University of Padua, Italy, is offering an ERC-funded post-doctoral position to study *blood flow signaling during angiogenesis.*

Blood flow and mechanical stress have not been fully decoded within aspects of cellular signaling during blood vessel development (1) and the laboratory on Prof. Santoro aims to unravelling why. As such, our goal is to understand how blood flow regulates vascular development and homeostasis *in vivo* (e.g. diseases angiogenesis) using human, mouse, and zebrafish genetic approaches along with advanced molecular and proteomic techniques. This project focuses on using genetically encoded metabolic sensor, DNA editing knock-out/in techniques, and *in vivo* angiogenesis models. The Santoro laboratory currently holds extensive experience in biochemistry as well as the genetic, molecular, and cellular biology of endothelial and mural cells in different vertebrate animal models and in human primary cells. The laboratory contains zebrafish and mouse animal facility, advanced stereo/confocal/light sheet microscopy equipment, advanced gene-editing techniques, and metabolic core facilities.

The candidate must be **highly motivated**, enthusiastic, and an efficient researcher with a PhD in a relevant discipline. The applicant must be capable of working in a team as well as independently. Excellent communication skills both spoken and written English are required.

We offer a dynamic work environment in a stimulating scientific surrounding with a young, enthusiastic, motivated team along the opportunity to contribute to high-impact projects. We offer a strong competitive salary as well as contributions to health and retirement funds.

**Contact**

Please send your CV, letter of motivation, and the contact information of at least two referees to Prof. Santoro at *massimo.santoro@unipd.it.*

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