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European
Research
Council

ERC-funded *Postdoctoral Scientist fellowship*

METABOLITES IN ANGIOGENESIS

The laboratory of Prof. Massimo Santoro lab at Venetian Institute Molecular Medicine (VIMM) offers an ERC-funded postdoc position 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 metabolites regulate angiogenesis in vivo (e.g. during development and pathological angiogenesis)(Oberkersch et al., 2020, in revision). The project will focus on specific amino acid metabolic pathways using new genetically encoded metabolic sensor, DNA editing knock-out/in techniques and in vivo angiogenesis models. 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, advanced stereo/confocal/light sheet microscopy equipment, advanced gene-editing techniques and metabolic core facilities are all available in the laboratory and department for these studies.

The 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.

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 three references to Prof. Santoro at massimo.santoro@unipd.it.

Website

<https://massimosantorolab.com>