ERC-funded postdoctoral position on Angiogenesis

Postdoctoral Scientist

SIGNALING MECHANISMS IN ANGIOGENESIS

Laboratory of Endothelial Molecular Biology
Vesalius Research Center-VIB, KU Leuven

The Santoro lab at the University of Leuven and VIB, Leuven, Belgium offers an ERC-funded postdoc position to study **REDOX SIGANLING and METABOLISM in angiogenesis.**

We recently discovered that redox signaling and oxidative stress are a new yet undiscovered aspect of cellular signaling in endothelial cells (Mugoni et al., 2013, *Cell*; Panieri et al., submitted). Using human, mouse and zebrafish genetic approaches as well as advanced molecular and proteomic techniques we wants to elucidate how redox-mediated signaling and metabolism regulate EC signaling in vivo (e.g. during development and diseases angiogenesis). The project will focus on using new genetically encoded redox 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 cells in different vertebrate animal models and human primary cells. Zebrafish and mouse animal facility, advanced stereo/confocal/light sheet microscopy equipments, advanced gene-editing techniques and metabolic core facilities are all available in the laboratory and department for such vascular-related studies.

The candidate must be a **highly motivated**, enthusiastic and efficient researcher with a PhD in a relevant discipline and strong experience in mouse genetic, molecular and cellular biology methods. 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. Candidates at first post-doc experience will be privilege. Excellent communication skills in spoken and written English are required. Strong interest in pursuing top-level research in a stimulating and competitive field of science.

We offer a competitive salary will be based on previous experience and skills.

Contact
Applications should include a cover letter, a CV and at least two reference letters from direct supervisors. Please send your applications and references to Massimo M. Santoro (Massimo.Santoro@vib-kuleuven.be).

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