The Department of Experimental Biomedicine at the

Rudolf Virchow Center/University Hospital Würzburg

invites applications for

3 Postdoctoral and 3 Graduate student positions (f/m/d – paid according to TV-L)

to investigate thrombo-inflammation in various disease settings.

All positions are embedded in the Institute of Experimental Biomedicine and linked to the DFG-funded Collaborative Research Center 1525 „Cardio-Immune interfaces“. In our laboratory, we study platelets and their precursors, megakaryocytes, in health and under diseased conditions. We utilize mouse genetics, disease models, advanced imaging techniques and clinical research expertise to study how the platelet-megakaryocyte axis drives thrombo-inflammation. Specifically, we are interested in translational research that deciphers molecular mechanisms of the mentioned diseases and aim to ultimately develop novel treatment concepts for these disorders.

All projects follow an interdisciplinary approach focusing either on targeting platelet receptors in thrombo-inflammation in close collaboration with pharmaceutical industry aiming at translating basic research into clinical application. A second set of projects studies interrelationships and processes of platelet-mediated inflammatory reactions and immunological processes occurring during myocardial infarction.

Activities and responsibilities

We are seeking a highly motivated applicant to work on projects combining advanced imaging techniques with mouse models of thrombo-inflammatory diseases. Besides microscopy, genetically modified mice, and functional cellular assays as well as biochemical and molecular biology approaches will be part of the project. Aim is to provide new insights into pathomechanisms and to explore experimental targeting in collaboration with our industrial partners.

Qualification profile

Your profile as a Ph.D. or MD./Ph.D. student:

- You have completed a university degree (Diploma, MSc, or equivalent) in Life Sciences, including Biology, Biochemistry, Biomedicine, Pharmacy, Veterinary Medicine or Medicine.
- Preferably, you have already experience in some of the above mentioned techniques.
- We expect a strong interest in the field of experimental hemostasis with a focus on infectious disease/immunology or cardiovascular biology.
- You have the ability to work in a team, possess self-initiative and creativity as well as an independent and responsible-minded way of working.
- You have very good knowledge of spoken and written English as well as computer literacy.

Your profile as a Senior/Postdoc:

- You have completed a Doctoral degree in Life Sciences.
- You have a strong track record in molecular biology, mouse genetics, cell biology, immunology, advanced microscopy techniques and/or vascular biology.

- You have the ability to work in a team and establish independent directions of research with the goal of a career in basic or translational science.
- You have very good knowledge of spoken and written English and a track record of publishing and acquiring grant support.

Benefits

We offer a stimulating atmosphere, excellent infrastructure, and the possibility to work on a highly innovative project in the excellent scientific environment of the CRC1525, University Hospital and Rudolf-Virchow-Center for top-level basic, translational as well as clinical research.

Successful PhD applicants will have the opportunity to enroll to an international graduate program at the Graduate School of Life Sciences in Würzburg. The University furthermore offers comprehensive services concerning administrative and practical matters, e.g. the Welcome Centre (moving to Würzburg) and the International Office. The positions are available immediately and are initially fixed term. The salary is commensurate with training and experience according to Collective Agreement for the Public Service of German Federal States TV-L (E13). The University of Würzburg is an equal opportunity employer. As such, we explicitly encourage applications from qualified women. Severely handicapped applicants will be given preferential consideration when equally qualified.

Send applications to

Interested candidates should send their application, including a single page motivation letter, CV including past research experience, list of publications and contact details of two referees as a single PDF file (less than 10 MB) to: careers@platelets.eu **until April 30, 2023**.