

The Center for Thrombosis and Hemostasis (CTH) was created in 2010 as an “Integrated Research and Treatment Center” (IFB) by the Federal Ministry of Education and Research (BMBF). The innovative multidisciplinary concept of the CTH offers a stimulating atmosphere, excellent infrastructure and attractive environment for top-level basic, translational as well as clinical research.

The Alexander von Humboldt Professorship (Prof. W. Ruf) invites applications for the following positions

Senior/Postdoctoral and Graduate Student positions (m/f)

In our laboratory, we are interested in the crosstalk of coagulation and inflammation. Our research broadly addresses open questions related to the roles of Tissue Factor (TF) and coagulation protease signaling networks in the integration and modulation of inflammatory stimuli in immune cells and the systems biology of coagulation signaling. We are interested in the control of innate immune cell phenotypes by coagulation proteases and their receptors in chronic inflammation (metabolic; viral) and cancer. We generate and characterize novel genetic mouse models that selectively delete or alter signaling specificity of components of the hemostatic system in innate immune cell populations. We are interested in translational research that deciphers molecular mechanisms of the mentioned diseases and evaluates clinically relevant interventional proof-of-principle molecular probes in relevant disease models.

Characterization of immunomodulatory functions of coagulation proteases in cancer, chronic infectious and inflammatory diseases will be carried out in mouse experiments, with molecular biology and biochemical techniques, cell culture, histology, functional assays as well as flow cytometric methods.

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.
- 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 cancer related issues.
- 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 the Life Sciences.
- You have a strong track record in molecular biology, mouse genetics, cell biology, immunology, 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.

We are looking forward to receive your application, including a CV, a short description of your scientific research interests, and letters of reference by email to: cathrin.nourse@unimedizin-mainz.de