

Open-Minded

The Research Group 'Immunology Sepsis/Trauma' (Head Prof. Dr. rer. nat. Stefanie Flohé) at the Department of Trauma, Hand, and Reconstructive Surgery, University Hospital Essen, is currently recruiting a



PhD student (m/f/d) - E 13 TV-L, 65 % Immunology

within the DFG-funded Research Training Group 1949 (www.uni-due.de/grk1949)

Sepsis is a systemic bacterial infection that causes profound immune dysregulation. The consequences are the development of life-threatening recurrent secondary infections and organ failure. Previous work of the lab has shown that an altered differentiation of dendritic cells in the bone marrow towards a "dysfunctional" phenotype contributes to the enhanced susceptibility to secondary infections during sepsis due to so far unknown mechanisms.

The aim of the project is to decipher the role of T lymphocytes in the differentiation of "dysfunctional" dendritic cells during sepsis using diverse techniques (animal experiments, organ preparation and isolation of primary cells, FACS, cell culture, protein quantification, transcriptomics, imaging, etc.)

The RTG 1949 focuses on the interaction between innate and adaptive immunity in infectious diseases and offers an outstanding education in the fields of infectious diseases and immunity to excellent young academics from natural sciences and medicine. The 3-year structured program of the RTG consists of scientific and clinical seminars, method courses, retreats, lab rotations, soft skill workshops etc. The program is taught in English.

Your profile:

- Very good Diploma/Master degree in Biology or life sciences
- High degree of motivation and enthusiasm in the investigation of pathomechanisms of sepsis and dendritic cells
- Deep knowledge in cellular/molecular immunology, experience in multi-color FACS, and cell culture
- Willingness to perform the sepsis model (cecal ligation and puncture) in mice (FELASA A/B is advantageous)
- Very good skills in independent working, organization, communication, and team work
- Excellent English language skills
- Active participation in the RTG program

We offer:

- Integration in an open-minded, highly motivated team
- An existing network of PhD students interested in infection immunology
- A multifaceted range of tasks with high responsibility
- Support for combining family and career

Application details:

The position may be filled from 1st April 2021 or later. Interested candidates should send their application including motivation letter, CV, references, and copies of all university degrees in **one pdf file only** to stefanie.flohe@uk-essen.de. Please refer to "Tender 1027" in the subject line. **Only applications that fulfill all the formal requirements will be considered!**

Applications will be considered until the position is filled.

The pay grade classification depends on the personal and collective legal requirements. The salary is in accordance with the German public service salary scale. The position is third-party funded for the duration of 36 months. The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply. The participation in secondary employment depends on the „Hochschulnebenbeteiligungsverordnung“ of North-Rhine Westphalia. Disabled applicants will be preferentially considered in case of equivalent qualification.