

We combine excellence in research, teaching and patient care. The University Hospital Bonn is a maximum care hospital with more than 1,300 beds. With around 38 clinics and 31 institutes as well as more than 9,000 employees (over 5,000 full-time staff), the UKB is one of the largest employers in Bonn. Every year, the UKB treats around 50,000 inpatients and around 35,000 emergencies, as well as providing over 350,000 outpatient treatments.

The research group **Immune Pathophysiology** at the **Department of Surgery** invites applications for a

PhD Student Position in Intestinal Inflammation Research (m/f/d)

(part-time position 65 %)

The position is funded by the German research council (DFG) and **available from spring 2024** due a project for a period of **3 years**.

Scientific goal:

Postoperative wound healing disturbances within the GI tract are one of the most dreaded complications of abdominal surgery. Visceral fat plays an essential role in the healing process. In this project, we aim to understand the role of specific immune cells in the colon and mesenteric and visceral fat during intestinal wound healing. We will analyse the role of fatty-acid-derived mediators and immunological response in colonic and fat tissues using state-of-the-art methods, including spatial imaging, RNA sequencing at single cell level, and multicolour flow cytometry. Our overarching goal is the identification of mediators crucially involved in intestinal healing. Via our clinical collaborators, we have access to human samples that have already been biobanked.

Our group is part of the Cluster of Excellence *ImmunoSensation*² in Bonn and offers a great environment for young researchers. The PhD position will be integrated into the local graduate program *BIGS Immunosciences and Infection* with outstanding training opportunities in multidisciplinary, interconnected scientific fields. Additional mentoring and networking opportunities will support it.

Requirements

- High intrinsic motivation and enthusiasm, as well as a deep interest in Biomedicine and Immunology
- Master's degree or diploma in Life Science (Biology, Biomedicine, Molecular Medicine or comparable fields of study)
- Strong knowledge of intestinal immunology and/or fat biology.
- Expertise in flow cytometry is notably mandatory.
- Expertise in and authorisation to perform *small animals* experiments.
- Experience in RNAseq analyses is a plus.
- English or German skills at C1 level or higher

We offer

- A salary according to the German salary scale TV-L E13 (65%)
- Possibility of using the daycare center
- Supplementary benefits in the public sector (pension plan according to VBL)

- An innovative and clinically relevant research project with the availability of state-of-the-art techniques, established disease models and instrumentations in our lab and the multiple core facilities at the campus.
- A good methodical education and excellent supervision in a friendly group
- Possibility for further education in university and non-university courses

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It, therefore, urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Contact information

Applications and questions regarding the project should be addressed to Prof. Dr. Sven Wehner. Applications should refer to the reference number 938_2023 and consist of a cover letter, CV, copies of the last university degree (MSc or equivalent) and two reference contacts and should be sent **exclusively by email as a single PDF** to:

Prof. Dr. Sven Wehner
Department of Surgery
University Hospital Bonn
Venusberg-Campus 1
53127 Bonn
Tel.: +49 228-287-11068
E-Mail: sven.wehner@ukbonn.de