



The University Hospital Bonn (UKB) is a maximum care hospital with more than 1,300 beds. Our more than 9,000 employees take on tasks in research, teaching and patient care as well as in public health at the highest level. In the science ranking (LOMV) and in the economic result, the UKB is number 1 of the university hospitals in NRW and in 2021 had the third highest case mix index of the university hospitals in Germany.

The group of **Prof. Dr. med. Kaan Boztug** at the Clinic of Pediatric Immunology and Rheumatology (Centre of Pediatric, University Hospital Bonn) offers a

PhD position in immunobiology of selected inborn errors of immunity (m/f/d)

(part-time position 65% limited due the promotion for three years)

Prof. Kaan Boztug is the newly recruited Clinical Director of the Department of Pediatric Immunology and Rheumatology at the University Hospital of Bonn and Principal Investigator of an ERC Consolidator grant (iDysChart), integrating basic research into mechanism of the immune dysregulation and clinical translation. The Boztug lab is focusing on the discovery of inborn errors of immunity (IEI) and the dissection of their underlying molecular pathomechanisms. The ultimate aim of our research is to enhance the molecular understanding of these disorders to enable the use of tailored treatment approaches.

We invite highly qualified candidates for a PhD position to investigate the molecular mechanisms underlying autoimmunity and autoinflammation in actin-mediated immune defects. In previous work from our lab, we have identified novel immune-mediated actinopathies including HEM1 deficiency or DOCK11 deficiency and investigated the molecular underpinnings of the respective defects (Salzer E et al., *Science Immunol* 2020; Block et al., *New Engl J Med* 2023).

For this project, we will investigate the cellular and molecular defects arising from genetic variants affecting actin-regulatory proteins, including novel disease-causing genes. We will decipher the differential effects of actinopathies on immune cell development and function, and compare the (epi)genetic profiles characteristic of individual genetic defects. These studies will be complemented by modeling disease mechanisms in suitable cell lines and zebrafish model systems.

What we offer:

- A dynamic, international and interdisciplinary working environment with a strong focus on immunology and genetics
- Close collaboration with leading scientists in the field of pediatric immunology and rheumatology
- Member of the Excellence Cluster of ImmunoSensation² with the possibility to participate in national and international conferences
- Excellent core facilities to support your research across the campus
- Salary according to the German salary scale TV-L 13 (65%) initially limited to 3 years
- **Responsible and versatile:** a job with a lot of creative freedom in a collegial team
- **Flexible for families:** flexible working time models, the option of a place in the company day-care center and offers for those returning from parental leave

- **Provision for later:** company pension scheme
- **Clever to work:** Possibility of an interest-free loan to buy an e-bike
- **Tailor-made education:** Subsidized further education and training
- **Systematic start:** Structured induction
- **Healthy at work:** Numerous health promotion offers, free membership in UKBfit
- **Employer benefits:** preferential offers for employees (corporate benefits)

The University of Bonn is a German University of Excellence since 2019. The Medical Faculty is a hub for internationally recognised immunological institutes and part of the Excellence Cluster of Immunosensation² in Germany (www.immunosensation.com).

We are committed to diversity and equal opportunities. Our goal is to increase the proportion of women in areas where women are underrepresented and to particularly promote their careers. We therefore urge relevantly qualified women to apply. Applications are treated in accordance with the State Equal Opportunities Act. Applications from suitable people with proven severe disabilities and those of equal status are particularly welcome.

Requirements:

- Master's degree in life sciences (biology, biomedicine, immunology or comparable studies)
- Scientific background in immunology, molecular and cell biology, bioinformatics skills are welcome
- Practical experience in molecular and cell biology, Western blot and FACS
- Ability to work independently and in a team
- Good English skills in speaking and writing
- Enthusiastic and collaborative work attitude

Applicants should send their application in a single pdf file (max. 5 MB) including a motivation letter, CV and scanned academic degrees. Please send your application stating the job advertisement number ST-23005 **until 11.06.2025** to

Herr Prof. Dr. med. Kaan Boztug

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