

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

Postdoc position: mechanisms of autoimmunity and autoinflammation in inborn errors of immunity (m/f/d)

(full-time position 100 % limited for four 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 mechanisms 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 experienced and motivated candidates for a Postdoctoral fellow position to investigate the molecular mechanisms underlying autoimmunity and autoinflammation. In earlier work from our lab, we have identified previously unknown inborn errors of immunity to decipher key regulators of human immune homeostasis (Ardy RC et al., *Gastroenterology* 2018; Wang L et al., *Nat Genet* 2021; Salzer E et al., *Science Immunol* 2020; Block et al., *New Engl J Med* 2023).

For this project, we have already identified novel disease-causing monogenic variants in autoimmunity and autoinflammatory diseases such as childhood-onset inflammatory bowel disease (IBD) and systemic lupus erythematosus (SLE). This project will integrate biochemical, immunological, and imaging techniques, along with co-culture of patient-derived organoids and model organisms combined with various -omics approaches, to understand the molecular mechanisms underlying these conditions, and to derive potential targeted treatment options (precision medicine).

What we offer:

- A dynamic, international and interdisciplinary working environment with a strong focus on immunology
- Close collaboration with leading scientists in the field of pediatric immunology and rare immune disorders
- Opportunities for professional development and career advancement within the research community
- Member of the Excellence Cluster of ImmunoSensation² with an interdisciplinary network of excellent scientists
- Excellent core facilities to support your research across the campus
- Salary according to the German salary scale TV-L 13 (100% including additional benefits) initially limited to 4 years with the prospect of extension
- **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 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 scientific 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. The Medical Faculty is a hub for internationally recognised immunological institutes and part of the Excellence Cluster of Immunosensation² in Germany (www.immunosensation.com).

Requirements:

- PhD degree in life sciences (biology, biomedicine, immunology or comparable studies)
- Scientific background in immunology, molecular and cell biology, and bioinformatics
- Practical experience in immunology, molecular and cell biology, hematology and genetics, and imaging techniques
- Excellent organizational and communication skills, with the ability to handle multiple tasks simultaneously
- Strong English skills with excellent writing and presentation abilities
- Enthusiastic and collaborative work attitude

Applicants should send their application in a single pdf file (max. 5 MB) including a motivation letter, CV, scanned academic degrees, list of publications and the contact details of two references stating the job advertisement number ST-23007 **until 11.06.2025** to

Herr Prof. Dr. med. Kaan Boztug

Zentrum für Kinder- und Jugendmedizin

Abteilung für Pädiatrische Immunologie und Rheumatologie

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