



**SFB 1454**  
Metaflammation  
and Cellular  
Programming



**ImmunoSensation<sup>2</sup>**  
the immune sensory system *Bonn cluster of excellence*

**ukb** universitäts  
klinikum**bonn**

The **Institute of Clinical Chemistry and Clinical Pharmacology** at the Faculty of Medicine of the **Rheinische Friedrich Wilhelms-University Bonn** invites applications for a

## **PhD position – Dietary regulation of immune cells**

The position is available for an initial period of three years, with the possibility of extension.

We are seeking a highly motivated candidate to fill a Ph.D. student position in dietary immunology in the research group of **Christoph Wilhelm** at the University Hospital Bonn (UKB), University of Bonn. Dietary immunology is an emerging field that investigates how dietary compounds and metabolites regulate the immune system. The project will investigate how diets (e.g. high-fat diet, ketogenic diets) and dietary components drive or reverse inflammation and includes the analysis of metabolic pathways controlling tissue resident immune cells such as T cells and innate lymphoid cells (ILC) (Karagiannis et al. *Immunity* 2020, Karagiannis et al. *Nature* 2022, Theodorou et al. *BioRxiv* 2024). To investigate these processes the candidate will use mouse models, transcriptomics, classical immunological methods but also cutting-edge technologies, such as imaging flow cytometry, metabolomics, proteomics and extracellular flux analysis. In addition, the project has potential to utilize links with clinicians to translate findings to human patients. The overall aim is to identify novel dietary intervention strategies that are effective to reverse inflammation in diabetes and to treat chronic inflammation. Candidates with experience in cellular immunology, molecular cell biology or biochemistry are specifically encouraged to apply.

### **We offer:**

- The salary will be according to the German salary scale TV-L
- A "Jobticket" (subsidized public transport) is available
- There is also a possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)
- To work in a motivated team in a thriving research environment
- Attractive conditions and benefits, an interdisciplinary research institution that fosters innovation and collaboration and are committed to training and career development of the next generation of scientists.

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.

Applications should include CV, certificates, and names and addresses of two referees and be send by e-mail under indication of reference number 428\_2020 until 28<sup>st</sup> of February 2025 to

**Prof. Christoph Wilhelm**  
**Institute of Clinical Chemistry and Clinical Pharmacology**  
**University Hospital Bonn**  
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