

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 – Metabolic 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 groups of **Laura Surace & Christoph Wilhelm** at the University Hospital Bonn (UKB), University of Bonn. Dietary immunology is an emerging field that investigates how dietary metabolites regulate the immune system. The project will investigate how specific dietary regimens and diet-derived small molecules shape the immune response in infections, tumor immunology and chronic inflammation. Phenotypic, functional, and metabolic analyses of mouse and human innate lymphoid cells (ILC) or T cells, will help clarify how changes in the host metabolism shape immune cell biology in context of infection and cancer (Karagiannis et al. *Immunity* 2020; Surace et al. *Nature Immunology* 2021; Karagiannis et al. *Nature* 2022). The candidate will work with mouse models and human samples and apply classical immunological methods but also cutting-edge technologies, such as imaging flow cytometry, metabolomics and extracellular flux analysis. The overall aim is to identify novel dietary intervention strategies relevant in the treatment of infections, chronic inflammatory conditions and cancer. Candidates with experience in immunology, molecular or cell biology and biochemistry are specifically encouraged to apply.

We offer:

- The salary according to the German salary scale TV-L
- A "Jobticket" (subsidized public transport)
- The possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)
- The possibility 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_2022 until 31st of August 2022 to:

Dr. Laura Surace & Christoph Wilhelm
Institute of Clinical Chemistry and Clinical Pharmacology
University Hospital Bonn
University of Bonn
Venusberg-Campus 1
53127 Bonn, Germany
E-Mail: lsurace@uni-bonn.de, christoph.wilhelm@uni-bonn.de