

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

Postdoctoral fellow (m/f/d) – metabolic and nutritional regulation of immunity

We are seeking a highly motivated postdoctoral fellow to conduct research on the fundamental aspects of metabolic regulation of the immune system. The Project aims to understand how metabolites derived from the host, the diet or the microbiome shape the biology and metabolism of tissue-resident immune cells (e.g. T cells, innate lymphoid cells (ILC)) in health and disease. In particular the work aims to identify how diets (e.g. high-fat diet, ketogenic diets), dietary components, exercise and metabolites modulate the immune response in obesity, chronic inflammation and infections (Karagiannis et al. *Immunity* 2020, Karagiannis et al. *Nature* 2022, Theodorou et al. *BioRxiv* 2024). To translate findings to human patients, the project will leverage established collaborations with clinicians. The candidate will have the opportunity to obtain additional external funding and develop an independent research program during the postdoctoral training.

We are looking for an enthusiastic scientist with a desire to work on a challenging and rewarding project as part of a friendly and supportive team. Applicants with Ph.D. degree and graduate students expecting to receive the degree within six months will be considered. The ideal candidate will have a background in immunology, tissue biology or cellular metabolism. Experience in working with animal models, cell isolations from tissues (lung, intestine), human tissue samples, multi-parameter flow cytometry, molecular biology and fluorescence imaging will be preferred.

We offer an interdisciplinary research environment that fosters innovation and collaboration and are committed to training and career development of the next generation of scientists. The position is available for an initial period of three years with the possibility of extension.

We offer:

- The salary will be according to the German salary scale TV-L (EG 13, 100%)
- A "Jobticket" (subsidized public transport)
- 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 names and addresses of three referees and be send preferably by e-mail under indication of reference number until March 17st 2025 to Prof. Christoph Wilhelm (christoph.wilhelm@uni-bonn.de).

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