

Open PhD positions: Molecular Immunology

2025 entry

The University Hospital Bonn are pleased share an open PhD position, to support an exceptional student undertaking doctoral research in the following project:

Genome stability a molecular tool in macrophages

Project description

The preservation of genome stability is essential for all living cells including immune cells. In contrast to other cells immune cell have the unique characteristics to use genome instability events for their activation and function. In this project we will characterize the molecular and biochemical consequences and functions of genome instability events, in particular after oxidative stress that support macrophage function. A focus of this project is to decipher how genome instability contributes to cell- cell communication and how this pathways is conserved across species. The proposed work will use insect, mouse and human ex vivo cells to address this function.

We are seeking for one highly motivated PhD candidate to work at the interface of molecular Immunology, Biochemistry, and Molecular Biology. The project combines cell based in vitro assays with advanced imaging techniques and state-of-the-art genome wide mapping tools to provide a complete picture of the molecular basis and signaling modules of DNA repair mechanisms.

The applicant should hold a master degree in cell/molecular biology, genetics or biochemistry. We particularly look for applicants with a collaborative attitude towards research and who can combine high personal ambition and work ethics with eagerness to contribute to other projects.

The student will be supervised by Prof. Dr. rer nat. Katrin Paeschke (Bonn).

Salary is paid according to German TV-L (E13 65%).

The University of Bonn is an equal opportunities employer.

Complete applications in English should include a CV, a brief statement of research experiences and interests and addresses of two referees. Please submit your application as a single pdf file Katrin Paeschke (paeschke@uni-bonn.de) before 31th of March 2025.