

The **Kolanus** lab at the **Life & Medical Sciences Institute** (Molecular Immune- and Cell Biology), University of Bonn, has an opening for a

## **PhD student position (65%)**

The highly qualified candidate will work on the molecular mechanisms of chemokine gradient sensing of immune cells.

Gradients of chemoattractants guide the recruitment of immune cells into organs, but it is incompletely understood how cells sense and respond to such stimuli. In recent years, we have engaged in setting up high-end microscopy- and microfluidics-based techniques to visualize and analyze migratory cell behavior quantitatively (Quast et al., *Front Cell Dev Biol.*, 2022). The research project is designed to investigate cytoskeletal dynamics and intracellular events during navigation and turning behavior of motile immune cells. In the course of this, we will also use a CRISPR mutagenesis screen with direct *in situ* identification of functional hits.

This project is embedded in the DFG-funded International Research Training Group (IRTG 2168) between the Rheinische-Friedrich-Wilhelms-University of Bonn/Germany and the University of Melbourne/Australia. The Bonn & Melbourne Research and Graduate School (Bo&MeRanG) focuses on the role of myeloid immune cells and adaptive immunity in the context of infection and inflammation. Students will perform the core of their 3-years PhD project in Bonn and will spend 1 year in Melbourne, jointly supervised by internationally leading principal investigators from both universities. Successful completion results in a joint PhD, which is jointly awarded by the University of Bonn and the University of Melbourne.

The ideal candidate will be highly motivated and team-oriented with a strong interest in cell biology, microscopy, cell migration and immunology, a first-class academic degree in a life science-related discipline (Master's degree in biology, molecular biology or biochemistry or equivalent), a strong background in cell biology or biochemistry and enthusiasm for working in the highly-competitive field of molecular cell biology. Candidates should have strong communicative skills (fluent spoken and written English).

**We offer:**

- The salary will be according to the German salary scale TV-L (EG 13)
- A "Jobticket" (subsidized public transport) is available
- There is also possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)

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.

Applicants should send their application documents in a single pdf file (max. 5 MB) including motivation letter, CV, scanned academic degrees, list of publications and the contact details of two references. Successful candidates will begin on **January 1, 2023** or later.

Please send your application by email until **November 21, 2022** to

Prof. Dr. Waldemar Kolanus

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