

## PhD position – B cell / Mucosal Immunology and microbiota research

A PhD position is immediately available to study **microbiota - B cell crosstalk**. The Rollenske lab uses single B cell receptor sequencing and repertoire analysis, monoclonal antibody production, antibody binding assays, germ-free and gnotobiotic mouse models and human samples, bacterial transcriptomics, and single cell host transcriptomic analysis to obtain a **detailed mechanistic understanding of the induction of intestinal antibody responses and the effects of Immunoglobulin A on the bacterial target cell**.

### We offer:

The University of Bonn is a German University of Excellence since 2019. The medical faculty is a hub for internationally recognised immunological institutes and part of the Immunosensation<sup>3</sup> cluster of excellence in Germany ([www.immunosensation.com](http://www.immunosensation.com)). The Department of Mucosal Immunology was recently founded within the Institute of Molecular Medicine and Experimental Immunology (<https://www.immei.de/research/tim-rollenske-laboratory>).

- Dynamic, multidisciplinary, and international environment with strong immunology focus.
- To become part of the Graduate school with additional workshops, lectures, networking events and conferences ([www.bigs-immuno.uni-bonn.de](http://www.bigs-immuno.uni-bonn.de))
- Participation in national and international conferences.
- The possibility to apply for the internal slots of International School on Advanced Immunology
- Living in an active university city with access to many cultural possibilities.
- Salary according to the German TV-L13 65% and additional benefits such as a pension plan.
- Although the position is fully funded, we fully support your applications for career advancement grants or PhD research fellowships.
- Possibility to supervise undergraduate students
- Close supervision in regular meetings
- State-of-the-art equipment and methods
- Excellent core facilities to support your research

### Your profile:

- Excellent study or research performance
- You possess high scientific integrity
- Master's degree (or equivalent) in immunology, biology, biomedicine, microbiology, bioinformatics or similar
- Knowledge in immunology, life sciences and molecular biology; previous experience in B cell biology is advantageous but not a must
- Ability to work precisely in the laboratory environment
- Experience and/or interest in performing data analysis of B cell receptor repertoire data using programming languages (mostly R)

Successful candidates can think independently, are eager to acquire necessary new skills, and are excellent collaborators and communicators.

**To apply:**

Application documents include a motivation letter, detailed CV (including the names of former mentors and supervisors), publication list (if applicable), relevant transcripts, at least one recommendation letter and contact information of at least two references.

To apply, please send all the required documents in a single .pdf document by e-mail (Subject: PhD application [Name]) to [tim.add-last-name-here@uni-bonn.de](mailto:tim.add-last-name-here@uni-bonn.de)

**Application deadline** is the **16<sup>th</sup> November 2025**. Starting date is negotiable.

We are strongly committed to promote equal opportunities. Therefore, applications will be handled in accordance with the State Equality Act.

*Additional information:*

*Institute homepage:* [www.immei.de](http://www.immei.de)

*Immunology in Bonn:* [www.immunosensation.com](http://www.immunosensation.com)