

**Open position for a PhD student within the Collaborative Research Centre (CRC) 1371**

**in Immunology and Microbiology (m/f/d)**

**at** Campus Helmholtz Center Munich / TUM School of Life Sciences at Campus Weihenstephan  
**starting** as soon as possible.

The gut microbiome plays a fundamental role in health and disease. CRC 1371 (Speaker Prof. Dr. Dirk Haller) focuses on the digestive tract and proposes an interdisciplinary approach to characterize the functional relevance of microbiome signatures in the context of inflammation and cancer.

Within CRC 1371, the Integrated Research Training School (IRTG) provides a qualification program for PhD students containing excellent multidisciplinary training with tailor-made subject-based and soft skills courses, annual retreats, summer school, and a supervision concept.

(For more information on the IRTG, the research projects and principal investigators follow the link to the CRC 1371 website.)

**Job description**

In this project (P07), we are investigating the functional relevance of the microbiome during acute and chronic viral infections. Numerous hints point towards a key role of microbial compositions on a variety of immune parameters but systematic analysis in the context of cytotoxic T cell responses is still lacking. In this basic research project, we will study both microbial factors and entities that impact cytotoxic T cell responses and host signalling pathways that mediate such effects to identify functional links in host-microbiome homeostasis. We apply gnotobiotic mouse models, cutting-edge microbiota and metabolite profiling methods as well as state-of-the-art molecular biology and immunology techniques in combination with a well-established viral infection model to achieve our aims. The perspective of this project is to identify novel microbiome-host interactions that can be applied also in other settings like vaccination or anti-cancer immunotherapy. The project will be performed in large parts at campus Weihenstephan in tight collaboration with the laboratory of Prof. Zehn (Chair, Division of Animal Physiology and Immunology, TUM) who will also co-supervise the successful candidate.

**Required qualification**

Candidates hold a Master degree (or equivalent) in Molecular Biology (or related) and have a strong interest in Immunology and Microbiology. They are open minded, active and fluent in English (oral and written).

**Salary and duration**

Payment is according to the wage agreement of the civil service TV-L, 65% of E13 for PhD student positions and 100% of E13 for Postdoc positions for 4 years.

**Application deadline**

Applications will be considered until the position is filled.

**Contact person**

PD Dr. Caspar Ohnmacht  
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Technical University and Helmholtz Center Munich  
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## **Application**

Applicants are asked to send one pdf file to the contact person. The file includes

1. cover letter,
2. curriculum vitae,
3. copies of academic degrees and transcripts of records,
4. contact information for at least one letter of recommendation,
5. list of publications with link for downloading (Do not include your publications in the pdf file).

As an equal opportunity and affirmative action employer, TUM explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given to disabled candidates with essentially the same qualifications.

### **Data Protection Information:**

When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. With regard to personal information, please take note of the [Datenschutzhinweise gemäß Art. 13 Datenschutz-Grundverordnung \(DSGVO\) zur Erhebung und Verarbeitung von personenbezogenen Daten im Rahmen Ihrer Bewerbung.](#) (data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR)). By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.)