

The **Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute** (Leibniz-HKI, www.leibniz-hki.de) investigates the pathobiology of human-pathogenic fungi and identifies targets for the development of novel natural product-based antibiotics. The department of **Infection Immunology** studies the regulation of human T cells in health and disease.

The department of **Infection Immunology** studies the regulation of human T cells in health and disease. We **offer several open positions** and invite talented and highly gifted candidates to apply as

Doctoral Researchers (f/div/m) in human T-Cell Immunology

for three years initially with the possibility for extension.

Research Areas: The department of **Infection Immunology** addresses fundamental questions about the mechanistic basis of the human immunological memory response. We also investigate T-cell communication with the local tissue microenvironment in settings of infections, autoimmunity and cancer. This research has unraveled several novel T-cell functions and immunomodulatory factors (Matthias *et al.* *Science Transl Med* 2019 & *J Clin Invest* 2020). The department uses novel cutting-edge technologies in the area of high-dimensional single-cell analysis (scRNAseq, Spectral flow cytometry) to translate fundamental insights into translational applications for human health and disease. The prospective candidates will have the opportunity to investigate the human immune system after solid organ transplantation. She/He will study how immune cells which are transplanted with the donor organ adapt to the new host microenvironment and crosstalk with the preexisting immune system (Almeida *et al.*, *Science Immunology* 2022).

Candidate´s profile:

- Master´s degree (or equivalent) in life sciences or in computational biology
- Scientific background in immunology
- Experience in high-dimensional single-cell data analysis and programming skills (R or Python) are a plus
- Very good oral and written communication skills in English
- Great enthusiasm for translational science

We offer:

- A modern workplace in a brand-new building with top equipment
- A cutting-edge highly funded research project in immunology

Job Advertisement

Leibniz-HKI-52/2022



Leibniz Institute
for Natural Product Research
and Infection Biology
Hans Knöll Institute

- A highly dynamic international young team in a thriving research environment in a Leibniz Institute with many large collaborative projects such as the Cluster of Excellence “Balance of the Microverse”
- Mentoring and career development

The successful candidate will be hosted in the department **Infection Immunology** of **Prof. Dr. med. Christina Zielinski**. The Leibniz-HKI is embedded in the outstanding scientific environment of the Beutenberg Campus providing state-of-the-art research facilities and a highly integrative network of life science groups. We offer a multifaceted scientific project with excellent technical facilities, a place in a dynamic, committed team, as well as strong scientific collaborations. The PhD candidate will participate in the structured program of the **International Leibniz Research School** and become an associated member of the **Jena School of Microbial Communication**.

Salary is paid according to German TV-L (salary agreement for public service employees). As an equal opportunity employer, the Leibniz-HKI is committed to increasing the percentage of female scientists and therefore especially encourages them to apply.

Further information:

Prof. Dr. Christina Zielinski | +49 3641 532 1251 | career@leibniz-hki.de

Applications:

Complete applications in English should include a cover letter, a CV containing a complete list of publications, a brief statement of research experiences, a certificate of study/transcript of records, the addresses of two possible referees, and should be submitted via the Leibniz-HKI **online application system**. The deadline for the advertisement is **December 15, 2022**, but applications will be reviewed on a rolling basis.