
Job Advertisement HKI-11/2019

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 Biology** invites talented and highly gifted candidates to apply for a

Post-Doctoral Researcher Infection Biology

for two years initially.

Your profile:

- Doctoral degree in biology, genetics or life sciences.
- Experience, knowledge and good experimental skills in cell and molecular biology, genetics and biochemistry are of advantage.

We offer: The successful candidates will investigate the field of complement evasion of pathogenic microbes including in particular *Candida albicans* and *Aspergillus fumigatus*. Main topics of the project are

- Characterisation of fungal immune evasion and moonlighting proteins
- How do microbial immune evasion proteins influence innate and cellular immune response?
- Functional characterization of FHR5 recruitment by pathogenic microbes

For further details please see literature below.

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

Further information

Please contact Prof. Dr. Peter Zipfel | +49 3641 532 1301 | career@leibniz-hki.de

Applications

Complete applications in English consisting of a letter of interest, CV, complete list of publications, brief statement of research experiences, a list of three potential references, and full academic record (copies of degree certificates) should be submitted **by August 15, 2019** via the **online application system**.

Literature:

Meinel C et al. (2017) *Streptococcus pneumoniae* from HUS patients bind human plasminogen via the surface protein PspC and use plasmin to damage human endothelial cells. *J Inf Dis* 21, 358-370.

Zipfel PF, Hallström T, Riesbeck K (2013) Pathogenic microbes - Tipping the balance. *Mol Immunol* 56:152-160.

Zipfel PF, Skerka C (2009) Complement regulators and inhibitory proteins. *Nat Rev Immunol* 9, 729-740.

Dasari P, Shopova IA, Stroe M, Wartenberg D, Dahse H-M, Beyersdorf N, Hortschansky P, Dietrich S, Cseresnyés Z, Figge MT, Westermann M, Skerka C, Brakhage AA, Zipfel PF (2018) Asp2 from *Aspergillus fumigatus* recruits human immune regulators for immune evasion and cell damage. *Frontiers in Immunology* 9, 1635.

Luo S, Dasari P, Reiher N, Hartmann A, Jacksch S, Wende E, Barz D, Niemiec MJ, Jacobsen I, Beyersdorf N, Hünig T, Klos A, Skerka C, Zipfel PF (2018) The secreted *Candida albicans* protein Pra1 disrupts host defense by broadly targeting and blocking complement C3 and C3 activation fragments. *Mol Immunol* S0161-5890(17), 30440-30446.
