



The **Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute** - (Leibniz-HKI, [www.leibniz-hki.de](http://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 Complement Genetics (f/div/m)

for two years initially.

### Your profile:

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

### We offer:

The successful candidates will investigate the field of Complement Genetics and Pathology of Renal Diseases. Main topics of the project are:

- Identification of Genetic Mutations of Complement Genes in Renal Diseases C3 Glomerulopathy and aHUS
- Next Generation Sequencing for Genetic Diagnostics
- Functional characterization of FHR1, FHR2 and FHR5 proteins in complement contact and beyond

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](mailto:Prof. Dr. Peter Zipfel) | +49 3641 532 1301 | [career@leibniz-hki.de](mailto: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**.

[Apply now!](#)

### Literature:

Irmscher S, Brix SR, Zipfel SLH, Halder LD, Mutlutürk S, Wulf S, Girdaukas E, Reichenspurner H, Stahl RAK, Jungnickel B, Wiech T, Zipfel PF, Skerka C (2019) Factor H-related protein 1 (FHR1) senses necrotic cell stress and triggers sterile inflammation. *Nature Communication*, in press

Rudnick RB, Chen Q, Stea ED, Hartmann A, Papac-Milicevic N, Person F, Wiesener M, Binder CJ, Wiech T, Skerka C, Zipfel PF (2018) FHR5 Binds to Laminins, Uses Separate C3b and Surface-Binding Sites, and Activates Complement on Malondialdehyde-Acetaldehyde Surfaces. *J Immunol* 200(7), 2280-2290.

Chen Q, Wiesener M, Eberhardt HU, Hartmann A, Uzonyi B, Kirschfink M, Amann K, Büttner M, Goodship T, Hugo C, Skerka C, (2014) Complement factor H related hybrid protein deregulates complement in dense deposit disease. *J Clin Invest* 124, 145-155.

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

