



---

## Job Advertisement HKI-41/2020

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 Paleobiotechnology** invites talented and highly gifted candidates to apply as a

# Postdoctoral Researcher (f/div/m) Microbial Bioinformatics & Data Science

for two years initially.

### Research Area:

Since new antibiotics are urgently needed to combat life-threatening infectious diseases, novel approaches for their identification are necessary. We are interested in identifying biosynthetic and resistance genes in ancient DNA and metagenomes to access otherwise hidden antibiotics or other bioactive natural products and to study their evolution. Our approach is highly interdisciplinary (bioinformatics, molecular biology, archeology, chemistry, evolutionary biology, etc.) and collaborative (our main collaborators are biomolecular archeologists at Harvard University and the Max Planck Institute for the Science of Human History). We would like to welcome a bioinformatician in our department, who wants to explore this novel source of antibiotics.

### Requirements:

- A PhD degree (or equivalent) in bioinformatics, biology, chemistry, or life sciences (e.g. chemical biology, biomedical sciences, biochemistry, microbiology, etc.). Candidates about to obtain their degree are welcome to apply.
- A strong background in bioinformatics with particular experience using and implementing softwares in linux environments, command line tools (to manage and design workflows), reproducible data analysis skills using R software, (meta)genome assembly.
- Very good communication skills in English are required due to an international research team.

### We offer:

The successful candidate will be hosted in the **Department Paleobiotechnology**. 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 young, committed team, as well as strong scientific collaborations.

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:

Dr. Pierre Stallforth | +49 3641 532 1527 | [career@leibniz-hki.de](mailto: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, the addresses of two possible referees, and should be submitted by **November 15, 2020**, via the Leibniz-HKI **online application system**, but applications will be evaluated on a rolling basis.

---

**Selected Publications:**

1. Klapper M, Götz S, Barnett R, Willing K, Stallforth P, *Angew. Chem. Int. Ed. Engl.* **2016**, 55, 8944.
2. Arp J, Götz S, Mukherji R, Mattern DJ, García-Altares M, Klapper M, Brock DA, Brakhage AA, Strassmann JE, Queller DC, Bardl B, Willing K, Peschel G, Stallforth P, *PNAS* **2018**, 115, 3758.
3. Mukherji R, Zhang S, Chowdhury S, Stallforth P, *Angew. Chem. Int. Ed.* **2020**, 59, 6192.
4. Klapper M, Schlabach K, Paschold A, Zhang S, Chowdhury S, Menzel KD, Rosenbaum MA, Stallforth P, *Angew. Chem. Int. Ed.* **2020**, 59, 5607.

