

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 research group **Systems Biology and Bioinformatics** invites talented and highly gifted candidates to apply as

Doctoral Researcher (f/div/m) in Metagenomics

for 3,5 years initially.

The research group **Systems Biology and Bioinformatics (SBI)** are seeking an excellent and enthusiastic PhD student for high risk-high reward research in the fields of metagenomics and big data integration. SBI is active participant of several national and international collaborative efforts to study the interplay between the host, symbiotic communities and pathogenic species. Together with renowned scientists and supported by an excellent infrastructure you will have the opportunity to make an important contribution for a healthier society. The objective of the PhD project is to develop AI models using clinical, biochemical and microbiome data for discovering novel disease biomarkers and designing therapeutic strategies in chronic non-communicable diseases.

Requirements:

- A strong interest in conducting collaborative research on the topic outlined above is paramount
- Candidates are expected to be interested in working at the boundaries of several research domains
- Master´s degree in Systems Biology, Computational Biology, Bioinformatics, Biophysics, Computer Science or a related discipline
- Knowledge and experience in the analysis of biological high-throughput data
- Knowledge in statistical methods in the context of biological systems
- Experience with programming (Python, Perl, C++, R)
- Well-developed collaborative skills

We offer:

- The successful candidate will be hosted in the research group **Systems Biology and Bioinformatics** of **Assoc. Prof. Dr. Gianni Panagiotou** of the Leibniz-HKI in an international, dynamic team, with access to state-of-the-art computational resources.

- **SBI** is currently coordinating a Marie Curie ITN Horizon 2020 Research and Innovation Program (www.besttreat.eu), the BMBF funded consortium PERMICCION and is an active participant of the Cluster of Excellence “Balance of the Microverse” (www.microverse-cluster.de) and the CRC/Transregio 124 “Pathogenic fungi and their human host: Networks of interaction” (www.funginet.de) funded by the Deutsche Forschungsgemeinschaft.
- We offer an international and multi-disciplinary environment with a strong expertise in the proposed research field. Currently the group consists of approximately 15 members at different levels of seniority.
- 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:

Assoc. Prof. Dr. Gianni Panagiotou | +49 3641 532 1759 | 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.