



Promoting Research and Evidence Sharing Knowledge Protecting and Improving Health

Founded in 1891, the Robert Koch Institute (RKI) is one of the world's oldest biomedical research institutions. Today, the RKI is Germany's national public health institute. It employs more than 1,150 people, provides excellent research infrastructure and pursues a modern approach to its scientific work.

The RKI is located in Berlin – Germany's vibrant, multicultural capital in the heart of Europe. The Institute's facilities are set in the environment of a clean, green city that is home to first class art, historical and science museums and well-known theatres. Public transit links to other districts and the surrounding countryside are excellent.

The RKI offers flexible work hours and terms of employment that promote in as far as possible employee life-work balance. Education and training are also provided based on employee needs. The RKI also has a comprehensive health maintenance program and assists incoming staff members and their families in settling in their new location.

The RKI is an affirmative action, equal opportunity employer.

Submit your application via the public service job portal Interamt at www.interamt.de by 14 October 2019.

Please note the position identification number: 539193 (StellenID)/Kz. 108/19.

If you have questions about the application procedure, please contact:

Katharina Brandt

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E-Mail: [BrandtK\[at\]rki.de](mailto:BrandtK[at]rki.de)

To learn more about the RKI please visit the institute's website at www.rki.de.

We are offering the following position in our Junior Research Group 2 “Metabolism of Microbial Pathogens” for a

Doctoral Candidate (PhD position m/f/d)

(50%; public sector wage scale [TVöD] grade E 13).

The contract is limited to 31 December 2020. The position will be available immediately.

The position is part-time to allow an opportunity for independent research dedicated to completion of doctoral work.

Asian mosquito species become more prevalent in Germany and can transmit a number of pathogens such as Chikungunya and Dengue viruses. The tolerance of mosquito eggs against low temperatures is crucial for breeding success but poorly understood. We use an in house metabolomics platform to compare cold and warm adapted mosquito eggs of the same species to identify possible mechanisms of cold resistance. To this end, we closely collaborate with the Goethe-University Frankfurt to obtain both mosquito eggs and data on their breeding success rates.

Depending on success the project and acquisition of 3rd party funding this project holds the opportunity for the completion of a PhD degree.

Tasks and responsibilities:

- Establishing quantitative metabolite extraction of frozen mosquito eggs
- Analysis of extracts with gas chromatography and liquid chromatography-coupled mass spectrometry
- Data analysis using univariate and multivariate statistical methods
- Publication and presentation of research results

Requirements and qualifications:

- A completed university degree (Masters, Diploma, Honours) in the field of life sciences, preferably biology, biochemistry, biotechnology or biophysics, which qualifies you to complete a PhD
- Previous exposure to mass spectrometry is advantageous
- Solid skills in MS-Office applications or equivalent are required; Experience in R or similar data analysis environments are advantageous
- Language skills (CEFR level): English at least C 1 (advanced knowledge), elementary knowledge of German (A 2) is of advantage. We expect non-German speaking applicants to be willing to obtain the level of language proficiency required to function effectively in your work environment.
- Willingness for an extended safety inspection in accordance with § 9 Safety Inspection Act (SÜG)



You should have a proven interest in metabolomics. You are also able to independently formulate scientific questions and develop experimental approaches. The short and interdisciplinary nature of this project requires the ability to quickly take up new tasks and work independently with appropriate supervision to meet objectives.

For more information, please contact:

Dr. Martin Blume

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Please note that in single cases the Federal Ministry of Health may access your application documents to ensure appropriate personnel selection within its scope as supervisory authority. Your data will be deleted immediately after the completion of the application process.