



PhD Position

in Malaria Therapeutics and Plasmodium Chromatin Biology

The **Längst Lab** at the **University of Regensburg** is seeking a highly motivated and talented **PhD student** to join our team and contribute to our cutting-edge research on malaria therapeutics.

About the Project

Malaria remains a devastating global health challenge. Our lab is dedicated to developing novel therapeutic strategies to combat this disease. This PhD project, funded by the **DFG**, will focus on the essential **chromatin remodeling enzyme PfSnf2L** from *Plasmodium falciparum*, the parasite responsible for the most severe form of malaria. The project focuses on:

- **Developing and evaluating new therapeutics against malaria** by targeting PfSnf2L.
- **Elucidating the molecular mechanism** of this enzyme using a multidisciplinary approach.
- Performing **structure-function analysis** of the complex with potential drug candidates.

This project offers an exciting opportunity to contribute directly to the fight against malaria, leveraging state-of-the-art biochemical, biophysical, bioinformatics, and structural biology methods to understand and exploit this critical parasite protein.

Our research centers on understanding chromatin dynamics and its role in gene regulation. We utilize a combination of biochemistry, biophysics, and cell biology to unravel complex molecular mechanisms. We are a collaborative and supportive team, committed to fostering the scientific growth of our members. The University of Regensburg provides a vibrant academic environment with excellent research facilities (www.laengstlab.com).

Participation in the Regensburg International Graduate School of Life Sciences (RIGeL) is an obligatory component of this PhD position, offering a structured PhD program with interdisciplinary training, seminars, and networking opportunities.

We are looking for an enthusiastic candidate with:

- A Master's degree in biochemistry, molecular biology, biophysics, or a related field.
- A strong interest in parasitic diseases, drug discovery, and structural biology.
- Hands-on experience in molecular biology and protein biochemistry is highly beneficial.
- Excellent communication skills and the ability to work independently as well as part of a collaborative team.

How to Apply

If you are passionate about making an impact on Malaria treatment through innovative and structurally informed research, we encourage you to apply! Please send your application, including a cover letter outlining your motivation and research interests, your detailed CV, and contact details of two academic references, to gernot.laengst@ur.de.

We look forward to hearing from you.

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Prof. Gernot Längst
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