

The **Institute of Molecular Infection Biology**, University of Würzburg is offering a

## **Postdoctoral Researcher position (f/m/d) Microbiology/Molecular Biology**

**“Development of ribosome profiling approaches for prokaryotic translome analyses”**

Applications are invited for a postdoctoral researcher position in the field of **Microbiology / Molecular Biology / RNA Biochemistry** at the Department of Molecular Infection Biology II (Prof. Dr. Cynthia Sharma) in Würzburg, Germany. Our group studies gene regulation in stress response and virulence control of the human pathogens *Helicobacter pylori* and *Campylobacter jejuni*. We develop and employ diverse deep-sequencing approaches for transcriptome/translome analyses in combination with microbiology and molecular biology methods to identify and study novel virulence factors and regulators.

The postdoctoral researcher will work in our projects within the **DFG priority program SPP2002 “Small proteins in prokaryotes: an unexplored world”**. We aim to identify translated small open reading frames in different prokaryotes based on global translome analysis using ribosome profiling (Ribo-seq) approaches. Successful candidates will:

- work in an interdisciplinary and international team
- collaborate with various groups of the SPP2002 network
- establish and optimize the experimental workflow for Ribo-seq of several prokaryotes
- apply Ribo-seq during different growth and stress conditions
- establish Ribo-seq for bacterial pathogens during infection

For further information, please see also our recent publications: Venturini et al., 2020, *μLife* (doi.org/10.1093/femsml/uqaa002); Svensson & Sharma, 2021, *eLife* (PMID: 34843430); Jiao et al., 2021, *Science* (PMID: 33906967); Pernitzsch et al, 2021, *Nature Comm.* (PMID: 34290242); Alzheimer et al, 2020, *PLoS Pathogens* (PMID: 32069333), or our website: [www.imib-wuerzburg.de/research/sharma/](http://www.imib-wuerzburg.de/research/sharma/).

Applicants should have the following qualifications:

- PhD/doctoral degree
- Strong background in molecular biology, biochemistry, microbiology, RNA or infection biology.

We welcome applications from all sections of the community regardless of race, gender, or disability. The University aims to increase the proportion of female employees. Thus, applications from qualified women are particularly welcome. Preference will be given to severely handicapped persons in case of otherwise equal aptitude. The position is initially limited to 1 year with the possibility of extension. Salary is based on the pay scale for the public sector (TV-L).

Please send your application including the following information:

- Letter of motivation
- CV and publication list
- Copies of relevant documents
- Contact information of two academic references

as a **single PDF-file** until **May 31<sup>st</sup>, 2022** via email to [petra.thomas@uni-wuerzburg.de](mailto:petra.thomas@uni-wuerzburg.de). For informal inquiries contact Prof. Cynthia Sharma ([sharma.ngs@uni-wuerzburg.de](mailto:sharma.ngs@uni-wuerzburg.de)).

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