



PhD Positions and Postdoctoral Fellowships

The Helmholtz Institute for RNA-based Infection Research (HIRI) has been established in May 2017 as joint venture between the Helmholtz Centre for Infection Research (HZI) and the Julius Maximilian University of Würzburg (JMU). Located on the Würzburg medical campus, it is the first research institution worldwide to exclusively address the role of ribonucleic acids (RNA) in infection processes. Based on novel findings, innovative therapeutic approaches are developed in an integrated research approach and made clinically usable through the development of pharmaceutical forms of application. For further information, please visit: www.helmholtz-hiri.de

We invite applications for PhD positions and postdoctoral fellowships to strengthen RNA-based research activities in the areas of bacterial and viral pathogens and the infections they cause.

Major research topics of the HIRI include

- Single-cell RNA analysis of the complexity and heterogeneity of infection processes
- Noncoding RNA with essential roles in pathogenesis
- RNA-based mechanisms in virulence and host defense
- RNA structure profiling, RNA modifications and RNA localization
- Delivery techniques for RNA-based interventions
- Exploiting RNA for new diagnostics, preventives and anti-infectives

We expect

- An above average Master's degree (for PhD students) or PhD (for postdoctoral fellows) in molecular biology, biochemistry, or a related discipline
- Solid background knowledge in microbiology, virology, cell biology, host-pathogen-interaction, RNA biology, single cell analysis, bioinformatics and biochemistry
- Good English communication and presentation skills (written and spoken)
- Intercultural communication skills
- A strong desire to do research with high self-motivation and enthusiasm

Application

Applications (cover letter, curriculum vitae, list of publications, statement of current and future research, contact information for two academic references) should be directed to info@helmholtz-hiri.de.

Only complete applications will be processed.

Since the HIRI supports gender balance, women are explicitly encouraged to apply. With equal professional qualification, disabled applicants will be prioritized.

For further information, please contact Dr. Tim Schnyder at tim.schnyder@helmholtz-hiri.de.