

HIRI HELMHOLTZ Institute for RNA-based Infection Research

HIRI's mission is to exploit the potential of ribonucleic acid (RNA) as a diagnostic molecule, target and drug for new strategies to combat infectious diseases. The natural synergy between HIRI and the infection research and translational competences of its parent institutions will create unique opportunities to effectively convert RNA knowledge into new forms of intervention.

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
- Regulatory RNAs 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

Potential candidates are expected to hold a Master's degree (for PhD students) or PhD (for Postdoctoral fellows) in biology, chemistry or human medicine and solid background knowledge in microbiology, virology, cell biology, pathogen-host-interaction, RNA biology, single cell analysis, bioinformatics and biochemistry.

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

Only complete applications will be processed.