

## ABOUT

The Helmholtz Institute for RNA-based Infection Research (HIRI) is the first institution of its kind worldwide to combine ribonucleic acid (RNA) research with infection biology. Based on novel findings from its strong basic research program, the institute's long-term goal is to develop innovative therapeutic approaches to better diagnose and treat human infections.

HIRI is a site of the Braunschweig Helmholtz Centre for Infection Research (HZI) in cooperation with the Julius-Maximilians-Universität Würzburg (JMU) and is located on the Würzburg Medical Campus.

## OUR MAJOR GOALS ARE

- to better understand infections at the single-cell level
- to detect regulatory RNA in infection processes
- to identify RNA-based mechanisms in viral infectivity and host defense
- to harness RNA in medical diagnostics, prevention and as anti-infectives
- to develop innovative application techniques for this purpose

## RESEARCH GROUPS

- Prof Jörg Vogel  
RNA Biology of Bacterial Infections
- Prof Antoine-Emmanuel Saliba  
Single-Cell Analysis
- Jun Prof Jens Hör  
Molecular Principles of RNA Phages
- Jun Prof Camilla Ciolli Mattioli  
Systems Microbiology of Intracellular Pathogens
- Prof Franziska Faber (associated)  
RNA Biology of gram-positive Bacteria

### Associated & Alumni Group Leaders:

- Dr Chase Beisel  
RNA Synthetic Biology
- Prof Lars Barquist  
Integrative Informatics for Infection Biology
- Prof Neva Caliskan  
Recoding Mechanisms in Infections
- Dr Redmond Smyth  
Genome Architecture and Evolution of RNA Viruses
- Prof Alexander Westermann  
Host-Pathogen-Microbiota Interactions
- Prof Mathias Munschauer  
LncRNA and Infection Biology

## #RNAexcellence

### HIRI AT A GLANCE



**HZI + JMU = HIRI**  
Foundation May 2017



**Managing Director**  
Prof Jörg Vogel



**Team**  
5 research groups  
6 associated & alumni group leaders



**Funding**  
Sound annual core funding from  
federal government and Free State of  
Bavaria  
Third party funding rate of 30%  
7 ERC Grants



**New Building**  
State-of-the-art facilities, funded by the  
Free State of Bavaria, co-financed by the  
European Union  
Completion planned for 2027



**Profile Areas & Programs**  
Single-Cell Center Würzburg  
Graduate Training Programs  
"RNA & Infection" and "RNAmEd -  
Future Leaders in RNA-based Medicine"



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