

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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