

CAMPUS RESEARCH FOCUS

MICROORGANISMS AND VIRUSES

Our Research

Microorganisms are omnipresent in the biosphere and offer the greatest variety of life on our planet. Scientists at the interdisciplinary Campus Research Focus "Microorganisms and viruses" aim to obtain a basic mechanistic understanding of microbes and viruses from the molecular and cellular level to microbial communities and to preclinical models using methods of microbiology, virology and parasitology.

The main focus is on identifying the overarching strategies that microbes and viruses use and on analysing how they interact with each other and with the host. Applied research focusses on the prevention and treatment of (neglected) infectious diseases, the utilisation of micro-organisms and the improvement of technologies in pharmaceuticals, the agricultural sciences and the chemicals industry.

Our Key Questions

- How can we combat neglected infectious diseases?
- How can we use microorganisms to produce chemicals for industry or medical compounds?
- How do viruses and microbes communicate?

FCMH Partners



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Current Research Projects

- DFG SFB 1021 RNA Viruses: RNA Metabolism, Host Response and Pathogenesis
- DFG SPP 1710 Dynamics of Thiol-based Redox Switches in Cellular Physiology
- DFG KFO 309 Virus-induced Lung Injury
- LOEWE-SP MOSLA – Molecular Long-Term Data Storage
- LOEWE-Centre DRUID – Novel Drug Targets against Poverty-Related and Neglected Tropical Infectious Diseases

Research Infrastructures

- High Security BSL-4-Laboratory at Philipps-Universität Marburg – the only laboratory of its kind at a university in Germany
- Centre for Synthetic Microbiology (SYNMIKRO) – joint research institution by Philipps-Universität Marburg and Max Planck Institute for Terrestrial Microbiology

Research Environment and Cooperation Partners

- German Centre for Infection Research (DZIF); Giessen and Marburg, cooperation with the Campus Profile Area “Infection and Inflammation Research”
- University Hospital of Giessen and Marburg GmbH (UKGM) of the Rhön-KlinikumAG
- Paul Ehrlich Institute, Langen – Federal Institute for Vaccines and Biomedicines
- Max Planck Institute for Terrestrial Microbiology, Marburg
- Max Planck Institute for Heart and Lung Research, Bad Nauheim

Contact Persons

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More Information



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