



CENTER FOR INTEGRATIVE INFECTIOUS DISEASE RESEARCH



HEIDELBERG
UNIVERSITY
HOSPITAL

The laboratory of Prof. Dr. Oliver T. Fackler, Center for Infectious Diseases, Integrative Virology, CIID, University Hospital Heidelberg, Germany recruits a

Postdoctoral fellow (TVL E13, 100%) **or a PhD student** (TVL E13, 65%)

To work on

Innate sensing of HIV-1 infection

HIV-1 infection is sensed by the innate immune system of primary target cells and subject to interference by antiviral host cell factors (restriction factors). Specific replication strategies and the expression of viral proteins that allow evasion from host cell innate immunity allow HIV-1 to overcome these barriers. We recently demonstrated that the host cell restriction factor SERINC5 not only suppresses the infectivity of HIV-1 particles but also facilitates innate sensing of HIV-1 particles by myeloid target cells (Pierini et al., 2021, Journal of Virology; Ananth et al., 2019, Journal of Virology). We will now address the mechanisms of this sensitization to innate recognition as well as of antagonism of antiviral SERINC5 activities by the HIV-1 pathogenesis factor Nef. These analyses will involve advanced virology, immunology, biochemistry and microscopy approaches in primary human cells and include work with replication competent HIV-1 (BSL3 laboratory). Prior experience with the purification and differentiation of primary human monocytes/macrophages and with experimental HIV-1 infection will be an asset. The position is funded by a grant from the Deutsche Forschungsgemeinschaft.

The laboratory is located in the new Center for Integrative Infectious Disease (CIID) research building with its state-of-the art imaging facility at the heart of the Heidelberg life science campus. We offer an international and highly interactive environment to address projects at the interface of immunology, biochemistry, cell biology, and virology. We are searching for highly motivated candidates with genuine curiosity and passion for science. Please send your applications (including letter of motivation and full CV with publication record, high school and university diplomas, record of transcripts) until December 20th to:

Dr. Kathrin Bajak

Scientific coordinator in the laboratory of Prof. Dr. Oliver T. Fackler

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