

PhD Position (m/f/d)

Genomics of Retroviral Infection

The **Leibniz Institute of Virology (LIV)**, is committed to research on the biology of different human viruses as well as the pathogenesis of viral diseases. The Institute offers the opportunity to perform cutting-edge research in a world-class research environment with excellent technical facilities.

We are looking for highly motivated candidates with a **strong interest in genome biology** in the context of viral infections.

The junior research group [Genomics of Retroviral Infection](#) (head: Dr. Ulrike Lange) focuses on exogenous retroviruses such as infections with the Human Immunodeficiency Virus (HIV) as well as endogenous retroviruses (ERVs) that have invaded our germline during human evolution. A critical step in the replication cycle of retroviral infections is the integration of virus-derived DNA into the genome of target cells. We would like to understand if and how these integration events influence target cell biology. To do so, we use a range of methods including cellular model systems, primary cell work and NGS-based genome-wide profiling.

The PhD project will focus on the **role of ERVs during acute and chronic HIV infection**, with a particular focus on elucidating characteristic genome-wide ERV signatures. Candidates should have a strong interest in **genome-wide analysis approaches**, such as transcriptome and epigenome profiling (RNAseq, ATACseq, ChIPseq) and should be keen to work with **bioinformatic pipelines** in addition to wet bench work. Previous experience in programming (R, Python) and Linux are a plus but not necessarily required. A solid knowledge of cell biological processes is a prerequisite. We are looking for candidates that enjoy working independently in a young team and a highly collaborative, international institute environment.

We offer a **three-year PhD position, starting as soon as possible**. Payment and social benefits in accordance with regulations of the German TV - AVH (salary agreement public service employees).

Applications should include a CV, a short description of previous experiences and technical skills, and two or three references. Please submit your application as single pdf by 24th June 2022 to personalabteilung@leibniz-liv.de. Late applications may be considered until the position is filled.

For questions, please do not hesitate to contact Dr. Ulrike Lange directly (u.lange@leibniz-liv.de).

The LIV promotes the professional equality between all genders. Handicapped applicants with equal qualifications will be given preferential treatment.