

PhD Student (d,f,m)

Host range determinants of arbovirus infections

The **Heinrich Pette Institute** - Leibniz Institute for Experimental Virology (HPI), is committed to research on the biology of different human viruses as well as the pathogenesis of viral diseases (<http://www.hpi-hamburg.de>). The HPI offers the opportunity to perform cutting-edge research in a world-class research environment with excellent technical facilities.

In recent years, concomitant with the broader distribution of the *Aedes* and *Culex* mosquito vectors, the number of insect-borne virus infections has increased dramatically. However, our understanding of the interaction between arboviruses and their mosquito vector remains rudimentary.

We are looking for a highly motivated **PhD student** with eagerness to learn, work in a team and make fundamental discoveries. Applicants should hold a MSc degree (or equivalent) with focus on cell biology, virology or related disciplines. Ability to plan experiments, develop methods and carry out analyses is a requirement. Prior experience in virology, mass-spectrometry or fluorescence microscopy would be a plus.

The project aims at identifying new mosquito host factors supporting or restricting arbovirus infections and unraveling their function. In addition to traditional virology and molecular/cellular biology methods, the candidate will employ state-of-the-art bottom-up mass-spectrometry and quantitative imaging to identify and characterize new critical host-pathogen interaction in insect cells. The project will be carried in the junior research groups “Systems Arbovirology” of Pietro Scaturro and “Cell biology of RNA viruses” of Gabrielle Vieyres as a joint project, to characterize host-dependency and restriction factors in the mosquito host.

We offer a PhD position, starting as early as possible, with an initial 3-year contract and possibility for extension. Payment and social benefits are in accordance with regulations of the German TV-AVH (salary agreement public service employees).

Applications should include a CV, a cover letter highlighting the specific qualifications and indicating the earliest starting date, copies of transcripts and up to three references, **in a single PDF**. Please submit your application by January 15th, 2020. Late applications may be considered until the position is filled. For questions, please do not hesitate to contact Dr. Pietro Scaturro (Email: pietro.scaturro@leibniz-hpi.de) or Dr. Gabrielle Vieyres directly (Email: gabrielle.vieyres@leibniz-hpi.de).

The Heinrich-Pette-Institute promotes the professional equality between women and men. Handicapped applicants with equal qualifications will be given preferential treatment.



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