

Master Thesis (d/f/m)

“Systems Arbovirology”

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. The HPI offers the opportunity to perform cutting-edge research in a world-class research environment with excellent technical facilities.

Arboviruses, such as DENV, ZIKV, CHIKV or WNV are an emerging global threat, due the widespread diffusion of their primary vectors and the steady increase in global temperatures. The laboratory of Dr. Pietro Scaturro, **Systems Arbovirology**, focuses on the **cell and molecular biology of pathogenic arboviruses**. A particular emphasis is given to the study of virus-host interactions and their relevance for pathogenesis, using state-of-the-art mass spectrometry-based methods, high-resolution imaging and molecular virology. For further information, visit the research group website: <https://www.hpi-hamburg.de/en/research-teams/junior-research-groups/systems-arbovirology/>.

To strengthen our young and enthusiastic team, we are always seeking talented and highly motivated **MSc. students** willing to carry their **Master thesis** work on tropical viruses in this exciting and international german city.

You will study the role of selected host proteins in the replication and pathogenesis of multiple arboviruses using traditional biochemical techniques, imaging-based methods and Mass-Spectrometry in an international research team (see e.g. *Scaturro et al.*, Nature. 2018; *Plaszczyca A et al.*, PloS Pathogens 2019, and *Neufeldt CJ et al.* Nature Microbiology 2019).

You should be passionate of science, have solid analytical thinking and creativity. Solid knowledge on basic cell biological processes is essential, and experience in basic laboratory techniques is most welcome. We expect candidates to have a high degree of autonomy, having completed a Bachelor of Science in Biology, Biotechnology or related fields.

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

Applications should include a CV, a short description of previous experiences, a short motivation letter, earliest possible starting date and the contact details of two or three referees in a single PDF via electronic mail to Dr. Pietro Scaturro (E-mail: pietro.scaturro@leibniz-hpi.de).

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