Master Thesis (d/f/m)
- Dynamics of Viral Structures -

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 facilities. One master thesis project is available in the junior research group “Dynamics of viral Structures” (head: Dr. Charlotte Uetrecht). Our group is an international group with English as the official language.

Project title: “Structural dynamics of tumor-inducing viruses during interaction with host cell glycans”

The project will include digest protocol optimization for hydrogen/deuterium exchange (HDX) mass spectrometry experiments to study interactions and dynamics of human papillomavirus (HPV) and/or Merkel cell polyomavirus (MCPyV). After successful protocol optimization structural changes in the viral particles are monitored by HDX-MS, using a liquid chromatography (LC)-MS system. The project is carried out in collaboration with research groups from Münster and Tübingen.

We offer:

- Intellectual and practical supervision by two postdoctoral research fellows
- Independent conduction of the experiments of the research project
- Teaching of state-of-the-art technologies in biochemistry, mass spectrometry and virology
- Student assistant salary

We seek:

- A highly motivated, team-oriented master student with interest in virology and mass spectrometry and a good command of English language

If you are interested in undertaking a master thesis in the junior research group of Dynamics of viral Structures and have further questions, please do not hesitate to contact Jasmin Dülfer (jasmin.duelfer@leibniz-hpi.de) or visit https://www.hpi-hamburg.de/en/research-teams/junior-research-groups/dynamics-of-viral-structures/ for more information. The anticipated start date of the project is as early as possible.

Please send your application with a short cover letter and CV by 31 January 2021 via email to:

Heinrich Pette Institute, Leibniz Institute for Experimental Virology
Personnel Department
Martinistraße 52, 20251 Hamburg
e-mail: personalabteilung@leibniz-hpi.de

Late applications will be considered until the position is filled.