

## 2 Postdoc positions (d/f/m)

Development of mass spectrometry-based diagnostics for respiratory viruses

- 1) Native MS for virus characterization (full time)
- 2) Bioinformatics including developing a GUI for data output (full time)

The **Leibniz Institute for Experimental Virology (HPI)** in Hamburg, Germany 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.

We invite applications for two joint positions in the junior research group "**Systems Arbovirology**" of **Dr. Pietro Scaturro** and the associated group "**Dynamics of viral structures**" of **Prof. Dr. Charlotte Uetrecht**, which is mainly located at the CSSB in Hamburg.

The Scaturro group investigates how pathogenic RNA viruses manipulate their hosts to shed light on mechanisms of pathogenesis and identify promising targets for therapeutic intervention using modern bottom-up mass spectrometry (MS).

The Uetrecht group mainly studies structural aspects of corona- and noroviral protein complexes using and developing advanced mass spectrometric techniques, especially native mass spectrometry (MS).

Your tasks:

Write scientific publication, grant proposals and beam time applications

Assistance in teaching

- 1) Native MS
  - a. Measure surface proteins, virus-like particles and inactivated virions from various enveloped viruses on a state-of-the-art Orbitrap UHMR
  - b. Compare mutants and variants
  - c. Analyze the data
- 2) Bioinformatics
  - a. Workflows for assignment confidence of proteomics and native MS datasets for the detection of various viruses
  - b. Integration into a GUI

Your skills:

- Relevant publications and conference presentations
  - Willingness to engage in interdisciplinary cooperation
  - Ability to work independently as well as part of a team, very good communication skills
  - Excellent command of written and spoken English
- 1) Native MS
    - a. Above average PhD in biology, chemistry or similar
    - b. Experience in protein MS, preferably native MS

2) Bioinformatics

- a. Above average PhD in bioinformatics or related field
- b. Experience in MS data analysis, programming and/or software coding

The positions are initially funded for 3 years.

We offer the opportunity to perform cutting-edge research in an extremely stimulating work environment equipped with state-of-the-art technology. The position has the possibility for extension after the initial period. Payment and social benefits will be in accordance with the regulations of the German TV-AVH (salary agreement for public service employees). The HPI is an international research institute with English as the working language. For further information contact Dr. Pietro Scaturro ([pietro.scaturro@leibniz-hpi.de](mailto:pietro.scaturro@leibniz-hpi.de)) or Prof. Dr. Charlotte Uetrecht ([charlotte.uetrecht@cssb-hamburg.de](mailto:charlotte.uetrecht@cssb-hamburg.de)).

The HPI promotes professional equality. Handicapped applicants with equal qualifications will be given preferential treatment.

Please send your application by **15<sup>th</sup> Mar 2022** – late submissions maybe considered until the positions are filled. Applications providing a motivating cover letter indicating earliest possible starting date, a CV and the names of at least two referees in a **single PDF** should be sent via regular or electronic mail to:



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