## Job posting

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**Title**

Postdoctoral researcher (f/m/d) - Multi level omics analysis of virus infections

**Institution**

The Technical University of Munich (TUM) is one of Europe’s leading universities. It focuses on the engineering sciences, natural sciences, life sciences, medicine, and social sciences.

**Position**

CoViPa (Corona Virus Pathogenesis) is a newly funded, internationally competitive and interdisciplinary network funded by the Helmholtz Association for the duration of 4 years starting on 1st of August 2021. The main focus of the network is to gain knowledge about the virological and immunological drivers of COVID-19 pathogenesis and the parameters of immune protection.

The pathogenic activity of viruses is to a large extent based on their ability to modulate protein activities in infected cells. We generate omics data (interactome, effectome, transcriptome, proteome, phosphoproteome, ubiquitinome) to understand basic principles of virus-host interactions to deduce functional relevant interactions that can be potentially exploited for antiviral therapies. (www.innatelab.org)

We aim to bridge the information on cellular effects and signaling events gathered by proteomics analysis with single cell RNAseq data in order to deduce signaling events operative at single cell resolution. You will generate novel omics datasets and/or perform computational analysis of data from virus-perturbed cells. We aim to perform medium throughput functional screens based on automated live-microscopy, FACS, mass spectrometry or deep sequencing to validate the analysed data and to illuminate the virus-host interface on a functional level.

Detailed project descriptions: https://covipa.dkfz.de

**Responsibilities**

- The candidate works accurately, is able to conduct independent research, but also enjoys working in an international and interdisciplinary environment
- Management of the project (importance of scheduling, deliverables) and reporting to the project leader
- Writing and publishing scientific papers in peer-reviewed journals
• Presenting results at national and international conferences
• Supervision of students and doctoral candidates in degree theses
• Close collaborate with wet-lab or bioinformatics scientists: from the initial experiment design to the hypothesis validation.
• The candidates creativity and critical input will be a key driver in this project.

Requirements
• A Ph.D. (or equivalent degree) in biology or related field with an excellent publication record.
• Profound knowledge in virology and virus-host interactions and/or bioinformatics analysis of complex datasets.
• Fluency in English language (written and spoken) is mandatory.

Application procedure (deadline etc.)
! Deadline: 2nd of July 2021 !
Submission of written applications to the CoViPa Office (covipa-bw@dkfz-heidelberg.de)
The applications will be forwarded to Prof. Dr. Andreas Pichlmair.

Contact
CoViPa Office
covipa-bw@dkfz-heidelberg.de