Title 128/2020 Postdoctoral Researcher (m/f/d) for drug research against viruses of the respiratory tract (Respiratory Syncytial Virus (RSV) and Coronaviruses)

Institution Please enter information about your institution

Position Research in Hannover (Director: Prof. Thomas Pietschmann) we are recruiting a

Postdoctoral Researcher (m/f/d) for drug research against viruses of the respiratory tract (Respiratory Syncytial Virus (RSV) and Coronaviruses) to support our international and interdisciplinary team.

The respiratory syncytial virus (RSV) and Coronaviruses can cause severe an even lethal respiratory infections. Treatment options are limited and novel antiviral strategies are urgently needed.

Accessing proprietary drug libraries of the Helmholtz Association, the Hannover Medical School and the most comprehensive drug repurposing library ReFRAME of the Scripps institute, we have identified several candidates with antiviral activity to SARS-CoV-2 and RSV, respectively. The candidate will be involved in the analysis of the mode of action, drug resistance and target identification of selected candidates. He/she will use human primary cell culture and animal models to validate candidates, to provide proof of concept of in vivo efficacy, and to prioritize molecules for onward development. In cooperation with experts in medical chemistry and structural biology, hit to lead series will be generated to improve drug-like properties of primary candidates.

Responsibilities • Attractive research project in a motivated, interdisciplinary, and collegial team
• Basic research with a clear translational focus
• Numerous national and international opportunities for scientific cooperation and dissemination of your work
• Extensive possibilities for advanced training
Flexible working hours

Requirements

Essential qualifications:
- Graduate degree in Life Sciences, Human or Veterinary Medicine
- PhD degree in virology or immunology or infection biology
- Knowledge of cell biology and molecular biology
- Willingness to work with animals is required

Expertise in these areas is of advantage:
- Molecular virology of RNA viruses
- RSV and/or coronaviruses research
- Animal experiments
- Protein expression, purification and the analysis of protein-protein-interactions
- Next Generation Sequencing techniques and data analysis techniques

Application procedure (deadline etc.)

HZI is an equal opportunities employer. Individuals with disabilities will be given preferential consideration in the event their qualifications are equivalent to those of other candidates. The position is suitable for part time.

Starting Date: 01.02.2021
Contract duration: 3 year contract with the possibility of extension
Salary: E13 TVöD Bund
Probational period: 6 months
Published: 24.11.2020
Application deadline: 08.01.2021

Please confirm that you have read and understood our privacy policy and that you agree to the processing of your personal data (text module, see privacy policy, https://www.helmholtz-hzi.de/en/service/data-protection/#c33722) when you send us your application documents. Without these declarations, we cannot consider your application or process it further and will delete already received application documents at the end of the application period.

Contact

For further information please contact Prof. Thomas Pietschmann, Head of Institute for Experimental Virology by email thomas.pietschmann@twincore.de
You can find more information on the research topics of the Institute for Experimental Virology on our website at https://www.twincore.de/en/research-groups/experimental-virology/.
Please submit your application with the identifier 128/2020 until 08.01.2021 by mail to Helmholtz Centre for Infection Research, Personnel Department, Inhoffenstr. 7, 38124 Braunschweig or by email JobsHZI@helmholtz-hzi.de as a single PDF file.