

**Job announcement No. 116/2024**

The Junior Research Group Immune Signalling led by Dr. Lina Herhaus, a significant part of the Microstar Project ([HZI | HUMAN MICROSTAR \(helmholtz-hzi.de\)](https://www.helmholtz-hzi.de/hzi/human-microstar)) at the Helmholtz Centre for Infection Research (HZI), is offering the position of a

**Doctoral Researcher (f/m/d) –**

**"Deciphering host-pathogen interactions in the context of immune signaling"**

**Information about the project:**

Our research in the junior research group of Dr. Herhaus focuses on cell homeostasis, intrinsic and extrinsic cell immunity in pathogen infections. We are interested in deciphering mechanisms of innate immunity, for instance regulated by autophagy, using cell culture techniques and mouse models. We are associated with the DFG-funded Collaborative Research Center 1177 on selective autophagy ([www.sfb1177.de](http://www.sfb1177.de)). In addition, we aim to better understand cell-cell communication through extracellular vesicles and their influence on immune regeneration. We are also interested in deciphering the molecular mechanisms of how pathogens utilize cellular membranes and organelles, in particular their contact sites, for pathogen spread and survival. We offer the opportunity to work on exciting projects in a highly collaborative, multidisciplinary and international team, embedded in the excellent scientific environment at the HZI with direct access to state-of-the-art technological facilities.

**Qualifications:**

- Master's degree (or equivalent) in biochemistry, biology, microbiology, biomedicine, veterinary medicine, medicine or an equivalent natural science degree program
- Fluency in English (written and spoken)
- Ability to work independently and as part of an international team
- Highly motivated to develop scientific skills
- Comprehensive knowledge of biochemistry, cell biology, microbiology and immunology
- Experience with common biochemical analysis methods (e.g. Western blotting, ELISA, FACS, mass spectrometry), data analysis and cell culture
- Experience with mouse models and pathogens is an advantage
- Experience with R for data analysis is an advantage

Disabled persons are given preference in the case of equal professional qualifications. The HZI aims for professional equality between women and men. The position is suitable for part-time work.

**We offer:**

- A state-of-the-art infrastructure and the latest technologies
- Ample biological profiling platforms (in vitro and in vivo)
- Modern laboratories, including S3 unit
- A lively scientific community

- An attractive and varied job in a future-oriented research institute with an international environment at the Science Campus South in Braunschweig (with locations throughout Germany), located in a research region with the highest “density of scientists” in Europe
- Your future place of work in Braunschweig is centrally located in Germany, with quick connections to various major cities such as Berlin, Hamburg and Frankfurt, as well as to attractive recreational areas such as the Harz Mountains, Lüneburg Heath and the North Sea. You are also in the immediate vicinity of Hanover Airport
- 30 days vacation, (24.12. & 31.12. are considered as completely free days)
- An annual additional payment (Weihnachtsgeld) analogue to § 20 TVöD
- Social security included
- Possible subsidy of the job-ticket
- Flexible working hours and workplace design
- DO IT- PhD initiative <https://www.helmholtz-hzi.de/de/karriere/do-it-doktorandeninitiative>
- A corporate culture of appreciation and promotion of equal opportunities
- Welcome Office
- Buddy System for new doctoral researchers
- Family Office, Child Holiday Care

The successful candidate will be integrated in the HZI International Graduate School for Infection Research (GS-FIRE) which provides an innovative structured PhD programme within the field of Infection Research <https://www.helmholtz-hzi.de/de/karriere/graduiererschule/curriculum/>.

<b>Starting date:</b>	01.10.2024 or later - initial contract for 3 years
<b>Salary:</b>	alike TVöD (Bund) E13 (65%)
<b>Place of work:</b>	Braunschweig
<b>Probation period:</b>	6 months
<b>Published on:</b>	1 <sup>st</sup> August, 2024
<b>Closing date:</b>	22 <sup>nd</sup> August 2024
<b>Application:</b>	Applicants are required to complete the online application form here: <a href="https://hzi.opencampus.net/">https://hzi.opencampus.net/</a> (Please select Job No. <b>116/2024</b> ).

For further information please contact Dr Lina Herhaus, email: [lina.herhaus@helmholtz-hzi.de](mailto:lina.herhaus@helmholtz-hzi.de)

For technical questions during your application please contact:  
[pc-hiring-young-scientists@helmholtz-hzi.de](mailto:pc-hiring-young-scientists@helmholtz-hzi.de)