



## PhD POSITION



### EXPLORING IMMUNE RESPONSES AT THE MOLECULAR LEVEL

Persistent infections with pathogens such as *Helicobacter pylori* drive chronic, low-grade inflammation, which sets the stage for the development of serious pathologies not only in the stomach but also in distant organs. Therefore, the Horejs-Hoeck lab aims to unravel how *Helicobacter pylori* manipulates host immunity.

#### WE OFFER:

- an open PhD position for 3 years (annual gross salary 2024: € 37,577.40 / 30 hours per week).
- an interesting and innovative project
- and the opportunity to work in a highly motivated and committed team while living in one of the most beautiful cities in the world.

#### YOUR PROFILE:

- Completed master's degree in life sciences, medical biology, molecular biology, immunology, or comparable areas
- Very Good English language skills (spoken and written)
- Enthusiasm for basic research and high level of interest in the areas of immunity and host-pathogen interactions
- Motivated, independent, and responsible working style as well as strong team-spirit
- Basic knowledge in immunology and/or microbiology
- Practical experience in molecular biology methods (qPCR, flow cytometry, ELISA, Western Blot), cell culture (isolation of cells from tissue or peripheral blood)
- Practical experience in animal experiments or bioinformatics is desirable, but not a requirement

#### YOUR TASKS:

- Planning and conducting experiments in the field of host-pathogen interactions
- Investigating innate immune responses to pathogens such as *Helicobacter pylori*
- Establishment of gastric organoid/immune cells co-cultures
- Isolation of bacterial extracellular vesicles, cell culture of primary human cells, flow cytometry, fluorescent microscopy, spatial transcriptomics
- Co-Supervision of Bachelor and Master Students
- Presenting collected data in national and international congresses

This PhD position is fully funded by the FWF for three years and should be filled by January 2025. Please submit your application (including a 1-page letter of motivation, CV, list of publications, a short summary of your master thesis and a letter of recommendation of your previous supervisor or two references) as one single PDF file to [Theresa.Neuper@plus.ac.at](mailto:Theresa.Neuper@plus.ac.at) until **November 30, 2024**.