

The Department of Translational Pediatrics at the Children's Hospital, led by Frau Prof. Dr. Dorothee Viemann, is offering the position of a

Postdoctoral researcher (m/f/d)

The Department of Translational Pediatrics is chair of the Julius-Maximilians-University of Würzburg (JMU), one of the oldest universities in Germany with a strong focus on human life sciences. We belong to and are located at the University Hospital of Würzburg (UKW) that harbors 34 specialized clinics, departments and institutes enabling interdisciplinary patient care and research at the highest level. It is the Medical Faculty's mission to create a vivid and favorable research environment for Clinical Research and Medical Translation. The Department of Translational Pediatrics is also part of the ZINF Research Center for Infectious Diseases and commits itself to the mission of translational research in tight collaboration with the Children's Hospital and the Department for Obstetrics and Gynecology. In concert, they have created a Pediatric Research Unit that operates local, national and international networks of active collaborations with scientists across the world.

Our research focuses particularly on the development of the immune system after birth. We are interested in identifying endogenous and environmental factors, which either promote or impede the postnatal processes of immune adaptation. The superior goal is to exploit this knowledge to develop age-specific strategies to combat infectious diseases and redirect aberrant postnatal immune development that predisposes lifelong to immune-mediated diseases.

Project description:

The research activities of the Viemann lab spans the entire pipeline from basic research with a focus on the development of innate immunity, inflammation and host-pathogen interactions including colonizing microbiota after birth to randomized controlled clinical studies in children. We involve patient and birth cohorts and use various state-of-the-art techniques in cell biology, molecular biology and biochemistry, as well as well-established murine models. Deep phenotyping of human biomaterial is performed using all kinds of omics technologies including FACS, chipcytometry, single cell sequencing, transcriptomics, etc.. Omics data are integrated with clinical metadata in modern bioinformatics pipelines in tight collaboration with strong partners. The successful candidate will use the range of established approaches and is welcome to implement own ideas and techniques. Additionally, the candidate will support the head of the group by attending ongoing and initiating own projects, planning, carrying out, and evaluating experiments independently, guiding PhD and medical students, and presenting and publishing scientific results.

Requirements:

For this position, we are looking for a highly motivated, skilled and enthusiastic candidate, able to do research independently as well as a part of an interdisciplinary team:

- PhD or equivalent in life sciences, with a strong theoretical and practical background in cellular and molecular immunology, virology and RNA biology
- Experience in advanced cell culture models
- Experience in *in vivo* mouse models desirable (FELASA certificate or equivalent)

- Excellent communication skills and proficiency in German or English

Prior experience in the following scientific fields are of advantage:

- Experience in infection immunology and microbiota research
- Familiarity with animal models for inflammation and/or infection
- Knowledge of high-throughput sequencing methods and bioinformatics analyses

Beyond that, we expect the successful candidate to bring along:

- Enthusiasm for science and openness to new technologies
- Ability to work independently and good team spirit

Our offer:

We provide an international, interdisciplinary, exciting and stimulating scientific environment at the Research Center for Infectious Diseases of the University of Würzburg (ZINF) and the University Hospital Campus Würzburg with strong connections to the WüSI (Max-Planck Würzburg Institute of Systems Immunology), the HIRI (Helmholtz Institute for RNA-based Infection Research), and the Biocenter of the University of Würzburg. Specifically, we offer

- Well-funded projects at the leading edge of early-life immunology and the emerging field of innate immune memory
- Excellent scientific infrastructure and state-of-the-art methodologies
- Access to cutting-edge technologies
- Broad networking opportunities with our collaborators in Germany and abroad
- A welcoming and enthusiastic team
- Active participation in international conferences
- An independent and creative position with space for own ideas

The University Hospital of Würzburg strives for professional equality between women and men. Severely disabled applicants will be favored if they are equally qualified.

Starting date: as soon as possible. Initial contract 1 year, extension possible

Salary: E13, TV-öD

Please send your application by referencing to the job offer containing CV and certificates, list of publications, motivation letter, and at least two references to:

University Hospital of Würzburg, Department of Translational Pediatrics, Prof. Dr. Dorothee Viemann, ZEMM, Zinklesweg 10, 97078 Würzburg, Germany or by e-mail: Viemann_D@ukw.de

For further information related to the position, please contact Prof. Dr. Dorothee Viemann, Head of Translational Pediatrics, Telephone: +49 931 201 45848 or by e-mail: Viemann_D@ukw.de