

JOB VACANCY

The University Hospital Essen offers first class medical services in the Ruhr metropolis. Every year, 225.000 patients are treated in 26 clinics, 23 institutes and specialized centers. The over 6.000 employees offer medical care with state-of-the art diagnostics and therapies, which meet highest international standards. Patient care is connected with basic and translational research at an internationally competitive level.

The **Institute of Immunology** is currently seeking a

PhD Student (m/f/d)

(Pay grade E13 TV-L / 65% - temporary employment)

The pay grade classification depends on the personal and collective legal requirements. The employment is provided for 3 years to obtain a PhD degree. An extension of the job duration might be possible according to the maximum employment duration as given by laws regarding scientific fixed-term contracts (Wissenschaftszeitvertragsgesetz).

The Institute of Immunology is led by Prof. Dr. med. Karl Sebastian Lang since 2011 and performs cutting-edge research in the fields of viral immunology, immunological cancer therapy and auto-immunity. Profoundly funded by multiple DFG grants and participating in joint projects such as SFB-, Transregio- and Graduate School-programs, the Institute cooperates with other excellent research institutions worldwide, such as the Princess Margaret Cancer Center of the University of Toronto, Canada, the National Institutes of Health (NIH), Maryland, United States, the Weizmann Institute of Science, Rehovot, Israel, the Wuhan University School of Medicine, Wuhan, China and the University of Zürich, Switzerland. The research environment is international with English as a working language and work is published in well-known, peer-reviewed journals.

Description of duties:

- Support in developing and finishing research projects, including experimental and theoretical analysis of molecular and cellular mechanisms in immunology
- Generating your own research ideas and developing them into a successful and high-level PhD-project
- Scientifically and methodically interaction and sharing of knowhow with other researchers at the Institute and the University will be highly appreciated

Your profile:

- University degree (master or diploma) in (Bio-)medical Sciences or a closely related study subject with excellent results
- A substantial interest in Immunology as well as pro-found background knowledge are required
- The candidate should be highly self-motivated, disciplined, a good communicator and team-oriented

The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply.

The participation in secondary employment depends on the „Hochschulnebenbeschäftigungsverordnung“ of North-Rhine Westphalia.

Disabled applicants will be preferentially considered in case of equivalent qualification.

Selected publications:

Dead Cells Induce Innate Energy via MERTK after Acute Viral Infection. Adomati T, Cham LB, Hamdan TA, et al. Cell Rep. 2020 Mar 17;30(11):3671-3681.e5. doi: 10.1016/j.celrep.2020.02.101. PMID: 32187540

Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. Lang J, Bohn P, Bhat H, et al. Nat Commun. 2020 Mar 12;11(1):1338. doi: 10.1038/s41467-020-15072-8. PMID: 32165633

NK cell-intrinsic FcεR1γ limits CD8+ T-cell expansion and thereby turns an acute into a chronic viral infection. Duhan V, Hamdan TA, Xu HC, et al. PLoS Pathog. 2019 Jun 20;15(6):e1007797. doi: 10.1371/journal.ppat.1007797. eCollection 2019 Jun. PMID: 31220194

CEACAM1 promotes CD8+ T cell responses and improves control of a chronic viral infection. Khairnar V, Duhan V, Patil AM, et al. Nat Commun. 2018 Jul 2;9(1):2561. doi: 10.1038/s41467-018-04832-2. PMID: 29967450

Spatiotemporally restricted arenavirus replication induces immune surveillance and type I interferon-dependent tumour regression. Kalkavan H, Sharma P, Kasper S, et al. Nat Commun. 2017 Mar 1;8:14447. doi: 10.1038/ncomms14447. PMID: 28248314

For more publications please see: <https://orcid.org/0000-0001-9783-7605>

Application documents:

- **Curriculum Vitae** (including your work experience & techniques you are familiar with; list of publications)
- **Cover letter** (please state your research interest)
- **Research proposal** (possible projects you would want to study in future, about 1 page)
- **Master thesis overview and certificate**
- **Contact information for 2 referees**

Please send your application documents with reference to the tender number **984** preferably in one single PDF file within 2 weeks after publication to

Univ.-Prof. Dr. Karl Lang
Direktor des Instituts für Immunologie
Universitätsklinikum Essen
Hufelandstraße 55
D-45147 Essen
GERMANY

E-Mail: KarlSebastian.Lang@uk-essen.de

We use your data exclusively for application purposes in accordance with the applicable data protection regulations.

Further information can be found in the privacy statement on our homepage at: <http://www.uk-essen.de>