

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 **University of Duisburg-Essen** offers within a
DFG-funded project

in the **Department of Trauma, Hand and Reconstructive Surgery** in the research group
Immunology Sepsis/ Trauma (Head: Prof. Dr. rer. nat. Stefanie Flohé)

1 Postdoc position (m/f/d) - E 13 TV-L, 100 %

Starting as soon as possible

The pay grade classification depends on the personal and collective legal requirements. The salary is in accordance with the German public service salary scale. The employment is provided for the duration of a third-party funded project for a period of 36 months. An extension might be possible according to available funding and the maximum employment duration as given by laws regarding scientific fixed-term contracts (Wissenschaftszeitvertragsgesetz).

Sepsis is a systemic bacterial infection that causes profound immune dysregulation. The consequences are the development of life-threatening recurrent secondary infections and organ failure. Previous work of the lab has shown that an altered differentiation of conventional dendritic cells (cDCs) in the bone marrow toward a "dysregulated" phenotype contributes to the enhanced susceptibility to secondary infections during sepsis due to so far unknown mechanisms.

The aim of this project is to decipher the impact of plasmacytoid dendritic cells (pDCs) on the differentiation of cDCs in the bone marrow during polymicrobial sepsis. The project is based on a clinically relevant sepsis model/patient material and will be conducted in close cooperation with a PhD student in the lab of Prof. Stefanie Scheu, Institute of Medical Microbiology and Hospital Hygiene, Heinrich Heine University Düsseldorf, Germany.

The postdoctoral scientist will investigate the cellular and molecular mechanisms involved in the communication of pDCs and progenitor cells of cDCs in the bone marrow and will identify their human counterparts. The main applied methods will be: multicolor flow cytometry, isolation and culture of primary cells, protein quantification, transcriptomics, imaging.

Requirements:

- Excellent PhD degree in biology or related life sciences
- Intrinsic motivation and enthusiasm in investigating pathomechanisms of infectious diseases and DCs
- Deep knowledge in cellular immunology
- Strong experience in multicolor flow cytometry and primary cell culture
- FELASA A/B certificate for animal handling
- Very good skills in independent working, organization, communication, and teamwork
- Excellent English language skills and track record of publishing original research

We offer:

- Integration in an open-minded, highly motivated international team
- An existing network of PhD students/postdocs interested in infection immunology
- A multifaceted range of tasks with high responsibility
- Support for combining family and career

The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply. The participation in secondary employment depends on the „Hochschulnebenberufungsverordnung“ of North-Rhine Westphalia. Disabled applicants will be preferentially considered in case of equivalent qualification. The position is also available as part-time employment.

Application details:

Interested candidates should send their application including motivation letter, CV, references and copies of all university degrees preferably in one pdf file only by mentioning the tender number **1144** within 2 weeks after publication to stefanie.flohe@uk-essen.de. Only applications that fulfill all the formal requirements will be considered.

Contact:

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