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. State-of-the-art core facilities, including imaging, cell sorting and sequencing are available on site. The oncological research of our faculty was rated #2 nationally and #18 worldwide in the most recent „U.S. News Best Global Universities Ranking“.

The Research Division (Head: Professor Sven Brandau) of Department of Otorhinolaryngology is currently seeking a

**Postdoctoral researcher (m/f/d) in Immuno-Oncology**

(Pay grade E13 TV-L / 100% - temporary employment)

The employment is provided for the duration of a third-party funded project for a period of initially three years. The pay grade classification depends on the personal and collective legal requirements.

**Your profile / qualifications**

We are seeking a candidate with a PhD and a completed academic degree in the natural sciences or life sciences (Bachelor/Master/Diploma) and experience in the fields of cell biology, molecular biology, immunology or immuno-oncology. A successfully completed experimental PhD Thesis must be part of the previous education. A research focus on immunology/immuno-oncology would be an asset. Solid scientific English skills are required. Pure basic research does not satisfy you. You are looking for a clinical environment and a disease-orientated research project. You are willing to work independently and apply your knowledge to a new area of research. Previous experience with cell culture, immunology, immuno-oncology, myeloid cells and flow cytometry is strongly encouraged when applying for this position. Interdisciplinary activity and collaboration with colleagues in the area of bio-nanotechnology is required.

**Our group**

In our group, you can expect a good working atmosphere and a lively research environment at the interface of basic science and clinical medicine. We offer a wide spectrum of methods ranging from molecular biology, immunology and experimental animal models to patient material and high-end imaging. The research themes of our group are: immunological tumor-host interaction with a focus on myeloid cells, tumor immunotherapy and the immunobiology of mesenchymal stromal cells (MSCs).

More information can be found here: [https://hno.uk-essen.de/grundlagenforschung-0/ag-brandau/](https://hno.uk-essen.de/grundlagenforschung-0/ag-brandau/)

**Selected publications:**


**Your project**

In your project, you will apply novel tools for precision immunotherapy of cancer. You will focus on immune cells in the tumor microenvironment. The project will be conducted in close cooperation with the groups of Prof. Dr. Schlücker (Faculty of Chemistry) and Prof. Dr. Saccà (Faculty of Biology), both University of Duisburg-Essen. We will apply an interdisciplinary approach integrating immunology and bionanotechnology to design, construct and apply molecular tools that selectively mark and target defined immune cells in the tumor microenvironment. In vitro cell systems, 3-D organ
model systems and animal model approaches will be used. You will be responsible for the design, performance and analysis of all cell-based experiments in the project. Your experience with myeloid cells and immuno-oncology will contribute to a successful outcome of the project. Multi-cellular systems will be established to mimic complex tumor environments. You will have the opportunity to present your findings at national and international conferences.

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

Please send applications (CV, two letters of recommendation or the contact details of two referees, proof/certificate of PhD, Master Degree or Diploma, presentations/publications, summary of training/experience, spectrum of methods and an English abstract/summary of your PhD thesis) with reference to the tender number 859 within 2 weeks preferably by email in a single pdf file to:

Prof. Dr. Sven Brandau  
Head of Research Division  
Department of Otorhinolaryngology  
University Hospital Essen  
West German Cancer Center  
Hufelandstraße 55  
D-45147 Essen  
Germany

Dr. Tanja Hardt-Knechtli; email: tanja.hardt-knechtli@uk-essen.de  
Larissa Loska; email: larissa.loska@uk-essen.de

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