



As a modern maximum-care hospital with a capacity of approximately 1,400 beds, the University Hospital of Cologne is dedicated to the practice of innovative academic medical excellence and assumes important societal functions in the fields of research, education and health care. With a staff of about 10.200 employed by the hospital and subsidiary organizations, the University Hospital of Cologne is one of the largest employers in Cologne and ranks among the leading university clinics in Germany.

For the DFG (German Research foundation) funded project “**Myeloid cell function in corneal hem- and lymphangiogenesis**”, the **Department of Ophthalmology**, University of Cologne is offering a

## PhD student position

The project will be performed in close collaboration with Dr. med. Deniz Hos (Department of Ophthalmology) and Prof. Dr. med. Sabine Eming (Department of Dermatology) and is part of a newly funded DFG-research unit “FOR2240: Lymphangiogenesis and cellular immunity in inflammatory diseases of the eye”. Aim of this project is to gain deeper insight into the functional relationship between myeloid cells and inflammatory corneal hem- and lymphangiogenesis. The findings of this work should contribute to future immunomodulatory therapeutic strategies to treat corneal neovascular diseases.

### Description of duties:

- Identification of myeloid-cell dependent and independent processes in corneal hem- and lymphangiogenesis
- Characterization of factors involved in the recruitment of myeloid cells during corneal inflammation
- Phenotypical analysis of macrophage subpopulations in diverse phases of corneal inflammation
- Interdisciplinary work in a young and highly motivated team in an excellent scientific environment (<http://www.augenklinik.uk-koeln.de/de/allgemeine-augenheilkunde-poliklinik/forschung>; <http://www.eming.uni-koeln.de>)

### Requirements:

- Master of Science (MSc) or diploma degree in Biology or a related discipline
- Strong interest in immunology and vascular biology
- High motivation on molecular and experimental work
- Willingness to conduct animal research
- Strong background in methods of molecular and cell biology
- Good english skills

The salary is based on the E13 TV-L scale. The position is available with immediate effect and is limited to 3 years.

The Board of Directors of the University Hospital of Cologne places strong emphasis on gender equality and seeks to increase the proportional representation of women in this field. Thus applications from female scientists are welcome; suitably qualified women will be given preferential consideration unless other candidates clearly demonstrate superior qualifications.

We also welcome applications from disabled candidates, who will also be given preferential consideration over other applicants with comparable qualifications.

Please submit your application (including a detailed CV, copies of secondary school and university certificates, and contact details of two references) as a single .pdf file to [deniz.hos@uk-koeln.de](mailto:deniz.hos@uk-koeln.de) and [sabine.eming@uni-koeln.de](mailto:sabine.eming@uni-koeln.de) or via mail to: Uniklinik Köln, Zentrum für Augenheilkunde, z. Hd. von Herrn Dr. Deniz Hos, Joseph-Stelzmann-Str. 9, 50931 Köln