

Master Thesis Position

Project: “To investigate the impact of stroke on the activation and function of intestinal immune cells”

You are interested on a Master Thesis position on this interesting project? Read below how to apply:

The Institute for Experimental Immunology & Imaging (<http://experimental-immunology.de>) focuses on basic and applied immunology research at the University Duisburg-Essen. The institute constitutes a wide range of modern research technologies in the University campus and at the Medical Research Institute of the University Hospital Essen. Among them is the IMaging Center Essen, which harbors an array of state-of-the-art microscopy techniques (<https://imces.uk-essen.de>).

What we are looking for: Master students interested in the field of Medical Biology, and Immunology. He/she should have a strong interest in learning new research technologies (2-photon imaging, confocal microscopy, flow cytometry, cell culture, PCR, transgenic mouse models) and to work on discovering novel molecular mechanisms of inflammatory diseases. Prior experience with basic molecular and immunological methods would be a plus.

Who we are: In our research team, we are focused on understanding the host's immune functions in infectious and sterile inflammation including brain injuries during stroke. In the last years, we have developed novel mouse strains to answer complex scientific questions (*Neumann J et al, 2015, Acta Neuropathol, Hasenberg A et al., 2015 Nature Methods, Otto L et al., 2018 J Mol Med*). In the past, we have also discovered a novel microbiota-immune-brain axis using cutting-edge research methods and mouse models (*Singh et al., 2016 J Neuroscience, Sadler and Singh et al., 2017 BBI, Singh et al., 2018 JCBFM*). Our recent findings illuminated a novel link across stroke-induced susceptibility to COVID19 infections (Singh et al. 2021 BBI).

**ZMB - Zentrum für
Medizinische
Biotechnologie**

**INSTITUT FÜR
EXPERIMENTELLE
IMMUNOLOGIE &
BILDGEBUNG**

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Currently, we are bringing our discoveries to the next level of translation for the treatment of critical human disorders.

How to Apply: If you are very enthusiastic in science and biomedical technologies and want to join our research team, please send your application with a short CV and motivation letter at vikramjeet.singh@uni-due.de

Address:

Dr. Vikramjeet Singh
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Start: A.s.a.p.

The aim of the University of Duisburg-Essen is to promote the diversity of its members (see <http://www.uni-due.de/diversity>). It aims to increase the proportion of women in scientific staff and therefore urges qualified women to apply. In accordance with the National Equal Opportunities Act, women are given preferential treatment with equal qualifications. Applications for suitable severely handicapped and equivalent persons pursuant to § 2 para. 3 SGB IX are desired.

We use your data exclusively for application purposes in accordance with the applicable data protection regulations. Further information can be found in the privacy policy on our homepage at www.uk-essen.de.