PhD Student Position in Neuroimmunology/Brain Barriers Research
at the Theodor Kocher Institute, University of Bern

In the group of Prof. Britta Engelhardt, there is an opening for a qualified and highly motivated individual aiming to pursue a PhD thesis in the field of neuroimmunology.

**Aufgaben**
The Swiss National Science Foundation funded project entitled "Brain Barriers ID: Identifying and detailing the molecular mechanisms regulating the integrity and immune function of the brain barriers" aims to specifically address the cellular and molecular mechanisms of the migration of different T cell subsets across the brain barriers during immunosurveillance and neuroinflammation, employing *in vitro* blood-brain barrier and transgenic mouse *in vivo* models combined with advanced live cell imaging technologies. The project offers a translational aspect by making use of multiple sclerosis-patient sourced stem-cell derived *in vitro* brain barrier models to ID the mechanisms regulating brain barriers permeability versus T-cell diapedesis in man.

**Anforderungen**
The successful candidate has preferentially a master degree in the life sciences, a dedicated interest in brain barrier research and immune cell trafficking, using *in vitro* and *in vivo* models and high-end microscopy techniques. The candidate is expected to have a high motivation in pursuing a team-oriented research effort.

**Wir bieten**
The position is available from September 1st, 2020 on. The TKI offers an international state-of-the-art laboratory environment. The PhD student will be enrolled in the interfaculty Graduate School for Cellular and Biomedical Sciences at the University of Bern ([www.gcb.unibe.ch](http://www.gcb.unibe.ch)). Excellent training possibilities will additionally be available through the swissuniversities funded ProDoc "Cell Migration" ([www.cell-mig.ch](http://www.cell-mig.ch)) and the Microscopy Imaging Center ([www.mic.unibe.ch](http://www.mic.unibe.ch)). In addition, the PhD student will be interacting with numerous national and international collaboration partners in this project.

Applications including a CV, information on educational background and experience, a meaningful motivation letter and 2 references should be send to:
Prof. Britta Engelhardt, Theodor Kocher Institute, University of Bern, Freiestr. 1, CH-3012 Bern, Switzerland. **E-Mail**: bengel@tki.unibe.ch, **Homepage**: [www.tki.unibe.ch](http://www.tki.unibe.ch)

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