The Klinik und Poliklinik für Innere Medizin II, Klinikum rechts der Isar of TU Munich is inviting applications for a PhD student position (m/f/d)

Applications are invited from highly motivated biology/biochemistry graduates (diploma, M.Sc. degree or equivalent). In our group we use state-of-the art in vitro and in vivo systems to investigate mechanisms underlying the intestinal neuro-epithelial communication in mice. In his/her project the PhD candidate will study key signaling mechanisms by which the enteric neuronal niche modifies epithelial cell function. The focus of the project will be on the modulation of intestinal epithelial stem cells by the neuronal niche and its implications for homeostasis and regeneration. The PhD project will include interrogation of key signaling pathways using organoid studies as well as experimental in vivo models for cell type specific gene targeting. The candidate will have the opportunity to apply for the PhD program of the TUM Medical Graduate Center (MGC) of TUM Graduate School that provides structured training and supervision. The PhD position is offered for a 3-year period.

Your responsibilities:

- Performance of experimental procedures (in vitro organoid studies; imaging; flow cytometry; in vivo experiments); data analysis; manuscript preparation
- Management of mouse colony
- Supervision of medical doctorate candidates / students
- Organization of lab supplies

Your Profile:

- Excellent master or equivalent degree in live or natural sciences
- Strong motivation, scientific curiosity, flexible, independent, with a keen interest in stem cell biology
- Excellent communication and organizational skills
- Experimental experience in molecular cell biology and cell culture models; experience in animal research models is advantageous

We offer:

- Inspiring and highly productive work environment
- Support to participate in competitive, renowned PhD program of TUM
- Regular supervision and mentoring to support professional career development
- Close collaboration with national and international labs
- Research rotation to Columbia University (New York, USA) possible (1-3 months)

For further information, please visit:

The University Hospital “Klinikum rechts der Isar” of Technische Universität München strives to increase the proportion of women. Applications from women will therefore be most welcome. Candidates with disabilities will be given preference if equally well qualified.

How to apply:

If you are interested in joining our team, please email your application to
moritz.middelhoff@tum.de.

Your comprehensive application should include a motivation letter, a meaningful CV and a complete list of academic transcripts; contact information of referees is appreciated.