

**The Chair of Proteomics and Bioanalytics at the Technical University of Munich (TUM) invites applications from outstanding candidates to start a**

## Young Investigator Group

### Mass Spectrometry in Systems Neurosciences

This YIG will be established in early 2021 as part of the Clinical Mass Spectrometry Center Munich – CLINSPECT-M and is funded by the German Federal Ministry for Education and Research (BMBF). The successful candidate is expected to build a strong team and research program in the neurosciences with a focus on mass spectrometry-based proteomics.

**Requirements:** Candidates must hold a PhD degree in a life science discipline, have 2-4 years of post-doctoral experience and have a strong publication record in mass spectrometry-based proteomics. Good theoretical knowledge of and practical skills in protein biochemistry and bioanalytical methods are essential. Hands-on experience with the operation and maintenance of liquid chromatography-mass-spectrometry systems are mandatory. Desirable skills include familiarity with laboratory workflow automation and the analysis and visualization of large data sets using “R”. Applicants should also possess a solid understanding of modern molecular and cellular (neuro)biology as well as the molecular basis of human diseases. We are looking for a self-motivated and broadly interested individual with high potential and a strong desire to start an independent academic career. Therefore, good intercultural, interpersonal, communication and presentation skills are important requirements.

**Our offer:** Success of the YIG will be facilitated by generous start-up funds for 5 years covering the YIG group leader position, one Postdoc, two PhD candidates, one technician, consumables and small equipment investments. Office and laboratory space will be provided as well as full access to the very substantial fleet of state-of-the-art LC-MS/MS instruments at the TUM.

**CLINSPECT-M** brings together an outstanding team of Munich-based experts in proteomics, medicine and informatics to perform innovative research on diseases of the nervous system. The goal is to drive technological innovations, meet urgent medical needs and address important societal challenges. By highlighting four thematic focus areas, neuro-inflammation, neuro-degeneration, neuro-vascular disease and neuro-oncology, our overarching research goals are to demonstrate that mass spectrometry in systems medicine i) is technically and logistically feasible, ii) generates novel insights into disease biology, iii) uncovers biomarkers for diagnosis, prognosis and treatment response and iv) provides short-, medium- and long-term clinical translation opportunities aiding clinical decision making for individual patients.

**Application:** Applications should include a motivational statement (max. one page), a curriculum vitae summarizing qualifications, experience, publications, grants, honors etc, copies of degree certificates and contact details of at least two referees. Applications should be sent as a single PDF to Prof. Dr. Bernhard Kuster ([kuster@tum.de](mailto:kuster@tum.de)) no later than 31.08.2020.