**1 Postdoc Position in Neurobiology / Cell biology / Imaging / Biochemistry**

Prof. Britta Qualmann, Institute for Biochemistry I, UKJ - Friedrich Schiller University Jena, Germany

The Institute provides a stimulating research environment with excellent technical equipment in a recently completely reconstructed building right in the center of Jena - one of the top-ranking and most lively biotech cities of Germany.

The aim of our internationally well-known research team (see e.g. PubMed and ResearchGate) is to gain a molecular understanding of how the topologies and shapes of the plasma membrane, cellular compartments and entire cells that are required for their biological functions are brought about and how such membrane shaping processes contribute to development, plasticity and function of cells and cellular networks, such as those formed by neurons in the brain. For overview and methods we apply please e.g. see Ahuja et al. 2007 *Cell*, Dharmalingam et al. 2009 *J Neurosci*.; Koch et al. 2011 *EMBO J*; Schwintzer et al. 2011 *EMBO J*; Schneider et al. 2014 *J Cell Biol*; Hou et al. 2015 *PLoS Biology*; Seemann et al. 2017 *eLife*; Izadi et al. 2018 *J Cell Biol* and Hou et al. 2018 *Dev Cell*.

The Project: The polar and extremely arborized morphologies that neurons develop are a prerequisite for signal processing in neuronal networks. Their development seems to be promoted by local Ca^{2+} signals, actin filament formation and proteins that modulate the local topology of membrane areas by their association. Besides proteins of the syndapin family (Reviews: e.g. Kessels & Qualmann 2015 *J Cell Sci*; Qualmann et al. 2011 *EMBO J*) and of actin nucleators, such as Cobl (Reviews: e.g. Izadi et al. 2018 *BBRC*; Qualmann & Kessels 2009 *Trends Cell Biol*), the project aims at studying the membrane interactions and the cell shape-changing potential of further proteins we have identified as membrane shapers as well as their regulation and their interplay with further cellular components, in particular those of the cytoskeleton. By applying biochemical, cell biological, genetic and modern imaging and ultra-high resolution imaging techniques we reach detailed insights into how cells develop, maintain and modulate the specific and often very much specialized morphology required for their physiological function.

We seek for a productive addition to our team. Applicants should have solid theoretical and practical knowledge of modern cell and/or neurobiology, biochemistry, molecular biology and imaging techniques as well as data processing. FELASA B or C or corresponding qualification for animal work as well as experience in generation/analyses of KO mice, biochemical and biophysical methods for membrane and actin dynamics studies, advanced methods of light microscopy and/or electron microscopy are very much appreciated.

Candidates need to be distinguished by high motivation to succeed in science and by being kind, efficient and reliable team-players able to integrate into our international team smoothly. Normally, merely fluent English is a prerequisite for our team members, due to the internationality of our group and of the lively university town of Jena. Candidates for this position will however be given the possibility to teach (knowledge of German required!).

The position: 100% TV-L E13 (salary for public service employees). Duration: 3 years. Provided that performance is excellent, contract elongation and career development towards more independence (Habilitation, own funding, subgroup formation) is possible and strongly encouraged.

For further information: [https://www.uniklinikum-jena.de/biochemie/en/Biochemistry+/I/Job+offers.html](https://www.uniklinikum-jena.de/biochemie/en/Biochemistry+/I/Job+offers.html)

Please direct your complete application (cover letter, CV, certificates incl. grades (and an explanation of the grading system used); list of publications & honours; 3 ref. addresses) to

Prof. Dr. Britta Qualmann & PD Dr. Michael M. Kessels
Institute of Biochemistry I, Jena University Hospital - Friedrich Schiller University Jena
Nonnenplan 2-4, D-07743 Jena, Germany

Please submit your application by E-mail to Michael.Kessels@med.uni-jena.de (PDFs preferred)

*The FSU Jena is an equal opportunity employer promoting the advance of women in science.*

Jena was ranked second in the German career atlas (right behind Munich)! ([http://www.karriere.de/beruf/muenchen-jena-berlin-die-top-regionen-in-deutschland-7952/](http://www.karriere.de/beruf/muenchen-jena-berlin-die-top-regionen-in-deutschland-7952/))