The Geis lab examines immune-mediated changes of synapses by interactions with pathogenic human antibodies against neuronal proteins. Short- and long-term effects on neuronal networks are analyzed using electrophysiological and various microscopy methods.

The Qualmann lab is an internationally well-known lab that focusses on proteins with the power to shape the dendritic arbor of neurons, which is important for network formation and synaptic plasticity, as well as on molecular mechanisms used by such proteins (direct membrane shaping; force generation by local actin nucleation).

Activities and responsibilities

We seek for a productive addition to our research team in a collaborative project. We plan to study pathomechanisms of synaptic changes underlying autoimmune disorders of the central nervous system applying super-resolution microscopy.

Qualification profile

Applicants should have a Master degree in Biology, Biochemistry, Molecular Medicine, Molecular Life Science or related.

Solid theoretical and practical knowledge of and interests in cell/neurobiology and in fluorescence microscopy as well as in quantitative image analyses is required.

Candidates furthermore need to be distinguished by high motivation to succeed in science and by being kind, efficient and reliable team-players.

Fluent English is a prerequisite.

We offer

1 PhD position in Neurobiology / Imaging in successful, internationally known labs working on cell biologically exciting topics.

The project combines the expertise of both labs and thus offers excellent opportunitie to work on a hot field of cell/neurobiology with broad and state-of-the-art methods and equipment.

For related former PhD projects in our labs e.g. see Koch et al. 2011 EMBO J; Schneider et al. 2014 J Cell Biol; Hou et al., 2015 PLoS Biology; Grünewald et al. 2017 Elife; Haselmann et al. 2018 Neuron; Petit-Pedrol, Sell et al. 2018 Brain; Wolf et al. 2019 Nat Cell Biol.

Position: 50% TV-L E13 (i.e. 50% of postdoc salary 1st year; then 65%). 3 years.

An elongation (if required for completing the PhD) may be possible, too (depends on financial resources of either the Geis lab and/or the Qualmann lab/Institute of Biochemistry I).

Start at earliest convenience.

Further information: https://www.uniklinikum-jena.de/biochemie/en/Biochemistry+/Job+offers.html

Applications to Michael.Kessels@med.uni-jena.de (PDFs preferred)

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