

In the group of Prof. Thomas Jentsch (FMP / MDC Berlin) there is an opening for

Postdocs in Electrophysiology and/or Cell Biology

In ERC- and DFG-funded projects, we investigate the structure-function, cell biology and physiology of anion channels in cell culture and in newly generated genetic mouse models. Projects are focused on the newly identified ASOR/TMEM206 and VRAC/LRRC8 channels, and on selected members of the CLC family of chloride channels and transporters. Intriguingly, VRAC channels not only transport chloride, but also organic molecules including neurotransmitters and drugs.

We are an international, highly interdisciplinary group with a strong interest in elucidating the role of anion channels in the physiology and pathology of various organs, which include e.g. the brain, endocrine cells, and the kidney.

We are looking for highly motivated young scientists with a solid background in physiology and cell biology and a keen interest in science. For the first position, we expect previous experience in electrophysiology, preferably in patch-clamp analysis of tissue (e.g. brain) slices, or alternatively in structure-function analysis of channels. Experience in ion concentration imaging and/or programming would be an asset. The successful candidate will have the opportunity to extend her/his expertise to other areas in molecular and cell physiology.

For the second position, the ideal candidate should have solid practical experience and theoretical background in cell biology, and preferably also in physiology and histology. Previous experience in the study of intracellular organelles and trafficking would be an asset as an important focus of our work concerns ion transport in endolysosomes.

Our lab is well equipped with several patch-clamp setups, ion imaging, confocal microscopy and all common equipment for molecular cell biology and morphology. We have direct access to the outstanding core facilities of the FMP and the MDC.

Both positions are available immediately. Disabled applicants will be preferentially considered in case of equivalent qualifications. Please send your application, including motivation letter, CV, and names and contacts of references, to Prof. Thomas J. Jentsch, jentsch@fmp-berlin.de.

Selected recent publications:

Voss F.K., Ullrich F., Münch J., Lazarow K., Lutter D., Mah N., Andrade-Navarro M.A., von Kries J.P., Stauber T., Jentsch T.J. (2014). Identification of LRRC8 heteromers as an essential component of the volume-regulated anion channel VRAC. *Science* 344, 634-638.

Stuhlmann T., Planells-Cases R., Jentsch T.J. (2018). LRRC8/VRAC anion channels enhance β -cell glucose sensing and insulin secretion. *Nature Communications* 9:1974

Ullrich F., Blin S., Lazarow K., Daubitz T., von Kries J.P., Jentsch T.J. (2019). Identification of TMEM206 proteins as pore of PAORAC/ASOR acid-sensitive chloride channels. *eLife* 8.

Göppner C., Orozco I.J., Hoegg-Beiler M.B., Soria A.H., Hübner C.A., Fernandes-Rosa F.L., Boulkroun S., Zennaro M.C., Jentsch T.J. (2019). Pathogenesis of hypertension in a mouse model for *CLCN2*-related hyperaldosteronism. *Nature Communications* 10: 4678.

Visit our webpage <http://www.fmp-berlin.de/jentsch.html> to know more about our lab.