Postdoctoral Position "TRP Channels in Neuroendocrine Control"

Position: Postdoctoral Researcher

Deadline: the position is available immediately; the search will continue until the position is filled

Contract length: initially 2 years (can be extended until June 30, 2026)

City: Homburg, Saarland

Country: Germany

Institution: Saarland University, School of Medicine, Center for Integrative Physiology and Molecular Medicine (CIPMM)

Department: Physiology / Molecular Neurobiology / Sensory and Neuroendocrine Physiology

Description:

We are looking for highly motivated researchers interested in novel roles of TRP channels in hypothalamic neurons that function as neuroendocrine master regulators. This project will also use and develop all-optical methods for TRP channel stimulation and recording by applying novel photopharmacological tools. The project is part of the Transregio/SFB 152 "TRiPs to Homeostasis", together with other universities in Munich and Freiburg.

We use genetically-altered mice in combination with state-of-the-art physiology (electrophysiology, optogenetics, viral transfection, calcium imaging and high resolution microscopy, animal behavior etc).

The successful candidate will work independently on his/her project, but interact closely with the PIs and collaborate with other team members. Requirements are a PhD degree in physiology, neuroscience or related disciplines. Prior research experience with dynamic confocal microscopy and/or electrophysiology will be advantageous.

Apply by sending a detailed CV with a publication list, a short statement of research interest and at least two referees to trese.leinders@uks.eu or frank.zufall@uks.eu

Starting date: as soon as possible

Examples of recent publications:

Leinders-Zufall et al. (2018) PhoDAGs enable optical control of diacylglycerol-sensitive transient receptor potential channels. Cell Chem Biol 25:215.

Blum et al. (2019) Trpc5 deficiency causes hypoprolactinemia and altered function of oscillatory dopamine neurons in the arcuate nucleus. Proc Natl Acad Sci USA 116:15236.

Trouillet et al. (2019) Central role of G protein Gai2 and Gai2^{+} vomeronasal neurons in balancing territorial and infant-directed aggression of male mice. Proc Natl Acad Sci USA 116:5135.

Koike et al. (2021) Danger perception and stress response through an olfactory sensor for the bacterial metabolite hydrogen sulfide. Neuron 109:2469.

Contact Details:

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