

Postdoctoral Position “TRP Channels in Pathogen Sensing”

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 pathogen detection mechanisms of barrier epithelia, especially in the airways and nasal systems. This project is part of the Transregio/SFB 152 “TRiPs to Homeostasis”, together with other universities in Munich and Freiburg.

We use genetically-altered mice combined 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 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:

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

MacDonald et al. (2021) A central mechanism of analgesia in mice and humans lacking the sodium channel Nav1.7. *Neuron* 109:1497.

Perniss et al. (2020) Chemosensory cell-derived acetylcholine drives tracheal mucociliary clearance in response to virulence-associated formyl peptides. *Immunity* 52:683.

Bufe et al (2019) Bacterial MgrB peptide activates chemoreceptor Fpr3 in mouse accessory olfactory system and drives avoidance behavior. *Nature Com* 10:4889.

Contact Details:

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