

Postdoctoral Position in Neurophysiology Laboratory of Jan Siemens @ Heidelberg University

We are looking for a Postdoctoral Researcher with an interest and background in electrophysiological research techniques.

Our team is using multidisciplinary approaches to address neurophysiological questions at the interface of sensory physiology and internal homeostasis, with a focus on temperature.

Some of the questions we are “burning” to answer are: How are temperature and painful stimuli detected? How is internal and external temperature information integrated at the level of the hypothalamus to guarantee body temperature homeostasis? How do long-term temperature changes, such as those we experience now due to global warming, trigger increased heat tolerance, a phenomenon commonly referred to as heat acclimation (or acclimatization)?

We are using diverse model organisms to address these and related questions including hESCs and hiPSCs and mice as main model organisms and as of recently we are also working with the Japanese rice fish Medaka and the fresh-water polyp *Hydra vulgaris*.

If you have used electrophysiological techniques and are interested in ion channel research, plasticity mechanisms and/or circuit analysis in the context of the research areas here above, have a look at our website (<http://www.siemenslab.de/>) and consider to apply.

The position is initially limited to two years, with the possibility of becoming permanent afterward.

If you are excited about neurophysiology, interested in homeostatic pathways, have some experience in animal research and envision for yourself to work in an international research group then send your CV, brief description of research background & interests and names of two or three referees to: jes@pharma.uni-heidelberg.de

Starting Date: flexible – preferably within 2024

