Postdoctoral position in ion channel function

A postdoctoral position, funded by the Swiss National Science Foundation, is available in the laboratory of Stephan Kellenberger at the Department of biomedical Sciences (DSB) of the University of Lausanne. Our laboratory works towards a molecular understanding of the activation mechanisms of the pH-sensing ion channels "acid-sensing ion channels"(ASICs). ASICs are neuronal ion channels involved in pain sensation, the expression of fear, and neurodegeneration after ischemia (for review see Kellenberger and Schild, Pharmacol Rev 67: 1-35, 2015). The postdoctoral fellow will investigate the ASIC activation mechanism with functional approaches, based on predictions from high-resolution structures and from Molecular Dynamics simulations. To this end, she/he will use electrophysiological and fluorescent approaches on mostly recombinantly expressed ASICs.

Your profile
We are looking for a talented and motivated postdoctoral researcher. Applicants need to have a PhD in life sciences or a related domain. They must have relevant experience with electrophysiology (patch-clamp, two-electrode voltage-clamp) and fluorescence approaches. Additional desired qualifications are a basic knowledge of molecular biology and biochemistry.

What we offer
We are a small, dynamic and motivated team. The position is for 2 years, with an initial, renewable contract of 1 year. The DSB, with 18 research teams, offers a stimulating and competitive research environment in modern biology with multidisciplinary expertise (www.unil.ch/dsb). Lausanne, with its university and the EPFL is a center of life science research.

Beginning: Fall 2023

Applications are invited in the form of a motivation letter, a curriculum vitae, a brief description of research experience and doctoral thesis, and the names and addresses of three academic references, before July 31, 2023.

Contact address for inquiries and for submission of applications: Dr. Stephan Kellenberger PD-MER, Département de Sciences biomédicales, Université de Lausanne, Rue du Bugnon 27, CH-1011 Lausanne, tel. +4121 692 5422, Stephan.Kellenberger@unil.ch, https://wp.unil.ch/kellenberger-lab/

For further information, please consult the following publications that illustrate our approaches:
Roy S et al., 2022. Open Biol 12, 10.1098/rsob.220243
Vullo S et al., 2021. eLife 10, 10.7554/eLife.66488