UNIVERSITÉ DE GENÈVE
FACULTÉ DE MÉDECINE

Post-doctoral position in Cell Physiology
University of Geneva, Switzerland

The Demaurex lab is looking for a motivated postdoctoral scientist to study the role of ion channels in neutrophil functions. The project on which you will embark will use mice expressing genetically-encoded calcium indicators in myeloid cells to establish the role of Orai, Piezo, and Hv1 channels in shaping the calcium signals that regulate neutrophil migration, phagocytosis, and bacterial killing *in vitro* and *in vivo.*

Qualifications: Applicants must hold a Ph.D. degree in natural or life sciences. Experience in cell and animal physiology and with imaging techniques are highly valued. Proficiency in French is not necessary. Experience in immunology-related topics is a plus.

The lab is located in an international environment with state-of-the-art platforms. We are seeking a candidate with strong motivation and ability to think independently, willing to incorporate before October 2022. Position is funded for 2 years, extendable (approximate salary: 81'000 CHF/ year).

Applications: Candidates should send a letter of motivation, their CV and publication list (max 2 pages), and contact details for at least 2 referees in a single pdf file to Nicolas.demaurex@unige.ch

References:

1. S-acylation by zDHHC20 targets ORAI1 channels to lipid rafts for efficient Ca2+ signaling by Jurkat T cell receptors at the immune synapse. doi: 10.7554/eLife.72051
2. Molecular Mechanisms of Calcium Signaling During Phagocytosis. doi: 10.1007/978-3-030-40406-2_7
3. STIM1 promotes migration, phagosomal maturation and antigen cross-presentation in dendritic cells. doi: 10.1038/s41467-017-01600-6.
4. Signaling and functional competency of neutrophils derived from bone-marrow cells expressing the ER-HOXB8 oncoprotein. doi: 10.1002/JLB.2A0818-314R
5. STIM1 juxtaposes ER to phagosomes, generating Ca^{2+} hotspots that boost phagocytosis. doi: 10.1016/j.cub.2012.08.049