Adi MINIS
Yaron Lab, Dept Biological Chemistry, Weizmann Institute of Science, Rehovot, Israel

“Life away from home – new insights into axonal autonomic functions”

Hosts¹: Kristina Schoonjans and Johan Auwerx

Abstract
Neurons have long axons that can reach up to meter in length in humans. Therefore, these cells face a unique challenge – how to spatially regulate various cellular processes at a long distance from the nucleus and cell body. In my talk I will discuss two aspects the axonal autonomic functions. In the first part I will present our recent findings on the spatial regulation of neuronal gene expression, specifically focusing on the unique features of the axonal transcriptome.
In the second part I will show ongoing work on the role of LKB1, a master regulator of cell metabolism in the regulation of axonal growth and maintenance.

¹: contact information hosts: Johan Auwerx, EPFL, SV/IBI1/LISP/NCEM, station 15, 1015 Lausanne, admin.auwerx@epfl.ch, Tel 021 693 0951 / 9522