

Neuroscience Lecture



Friday, 26 April 2024



12.00 o'clock



University of Bern, Department of
Physiology, Seminarraum, 2nd Floor,
Room 259
Bühlplatz 5, 3012 Bern

Secretory autophagy, a novel cellular machinery shaping the neuronal surfaceome

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Autophagy, classically known as a cellular process delivering proteins and organelles to the lysosome for degradation, was recently shown to have a distinct, non-degradative function in protein secretion, a process coined secretory autophagy. This novel cellular mechanism facilitates the release of cytokines and other molecules from macrophages and cultured cell lines. Yet, its existence and biological functions within neurons have never been examined. Ongoing work in my lab investigates secretory autophagy in the mammalian brain, demonstrating its role in Golgi-independent trafficking of a plethora of synaptic and other neuronal surface proteins.

Chair: Prof. Antoine Adamantidis

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