



Friday, July 3, 2026



12.00 o'clock



University of Bern,  
Department of Physiology,  
Seminar Room, 2<sup>nd</sup> Floor,  
Room 258  
Bühlplatz 5, 3012 Bern



[Link here](#)

# Single-cell spatial transcriptome and connectome of the hippocampus

**Chun Xu, PhD**

Institute of Neuroscience (ION)  
Chinese Academy of Sciences (CAS)



The hippocampus comprises distinct subregions and cell types critical for memory and cognition, however, their gene expression profiles, mesoscopic connectomes, spatial distribution patterns remain to be clarified. In this seminar, I will present our work mapping cellular spatial transcriptomic atlases for the mammalian hippocampus, and revealing the spatial organization of single-neuron projectome. Then, I will describe the development of molecular tools to label, record and manipulate projectome-defined cell types. Finally, I will present a functional dissection of projectome-defined ventral hippocampal cell types in emotional processing using these tools.

Chair: Prof. Stéphane Ciochi