



Friday, February 27, 2026



12.00 o'clock



Inselspital, Kursraum  
Neurologie  
INO B118, Entrance 34  
Rosenbühlgasse 25 3010 Bern



[Link here](#)

# Functional Diversity of Amygdala Microcircuits

## Sabine Krabbe, PhD

Head of DZNE Research Group  
University of Bonn (DE)



Neural circuits adapt through plasticity to support memory, yet the specific contributions of inhibitory interneurons remain unclear. I will present recent work using deep-brain calcium imaging to track genetically-defined amygdala interneurons in freely moving mice during fear learning and extinction, enabling single cell-level analysis across memory acquisition, expression, and updating. Our results reveal diverse interneuron dynamics linked to both external cues and internal states, highlighting flexible inhibitory mechanisms within amygdala microcircuits. I will also touch on how such mechanisms may interface with exploration-related processes, through which animals reduce environmental uncertainty, and how neuromodulatory signals supporting information-seeking may converge on these circuits to shape adaptive learning.

Chair: Micaela Borsa, PhD

---

#### Information & contact:

Trần Vu | Tel. +41 (0)31 63 295 43 | [tran.vu@unibe.ch](mailto:tran.vu@unibe.ch), Department of Neurology, Inselspital University Hospital, Freiburgstrasse 18, 3010 Bern  
Organization: Prof. Antoine Adamantidis /Prof. Stéphane Ciochi /PD. Carolina Gutierrez Herrera/ Prof. Baud