



Friday, May 29, 2026



12.00 o'clock



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



[Link here](#)

Orchestrated Neuromodulation to enhance motor and cognitive functions in health and neurological disorders

Prof. Friedhelm Hummel

Neuro-X Institute, Swiss Federal Institute of Technology (EPFL)



Neurological disorders such as stroke, traumatic brain injury, and Alzheimer's disease remain major causes of long-term disability, with current treatments often insufficient to restore function, support adaptation, or build resilience against ongoing neurodegeneration. At the same time, rapid advances in neurotechnology are creating unprecedented opportunities to reshape the future of neurorehabilitation. This talk will highlight emerging interventional strategies - including non-invasive and invasive brain stimulation, neural interfaces, and neuroprosthetic approaches - that aims to enhance recovery, compensation, and functional independence across motor and cognitive domains. Framed by a network-based understanding of brain function and plasticity, the lecture will discuss how targeted modulation of distributed neural circuits can re-orchestrate brain processing and open new translational avenues for restoring function after neurological injury and disease.

Chair: Prof. Maxime Baud

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