



Friday, May 15, 2026



12.00 o'clock



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



[Link here](#)

Role of adult born hippocampal neurones in the physiology and physiopathology of memory

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Neurogenesis was traditionally believed to occur only during embryonic stages in the mammalian brain. However, over the last 30 years, research has firmly established that active neurogenesis persists throughout adult life in discrete areas of the brain such as the hippocampal dentate gyrus (DG). In fact, the DG is predominantly formed after birth, and it exhibits a permanent remodeling through continuous addition of new neurons throughout the life-span. Because of this continuous addition of new cells, the DG appears as a highly heterogeneous structure composed of different generations of granule neurons. I will provide some examples of this heterogeneity and will show that the temporal origin of DGNs dictates their morphology, their properties in response to learning and their role in hippocampal-dependent function. I will conclude on the potential implication of these different cohorts of neurons in establishing resilience/vulnerability to mental disorders.

Chair: Prof. Antoine Adamantidis