



Centre de Neurosciences Psychiatriques

CNP SEMINARS

ANNOUNCEMENT

The relation between learning and neurogenesis put to test in wild rodents

Friday, November 20, 2020, 11:00 – 12:00

PD Dr.sc.nat. AMREIN Irmgard ETH/UZH

D-HEST / Institute of Anatomy - Division of Functional Neuroanatomy

Adult born neurons in the hippocampus are a unique form of structural plasticity, and these young neurons have been correlated with different aspects of learning and memory. Evidence stems nearly exclusively from laboratory rodents. We have tested whether the association holds in wild rodents too. To this end, wild animals along with laboratory mouse strains performed spatio-temporal learning tasks. Performance was evaluated for within-group associations with hippocampal neurogenesis. Our findings do not support a correlation with learning per se, but with the persistence of successfully learned rules. Moreover, we found an association with the reaction to novelty, a behavioral trait that is pivotal for small predated animals.

Related publications

van Dijk, R. M., et al. (2019) Behav Brain Res 372: 112034

Wiget, F., et al. (2017) Front Neurosci 11(719): 719.

Invited by F. Magara

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This event will take place on a virtual space on **Friday, November 20th at 11:00** through the link:

<https://chuv.webex.com/chuv/j.php?MTID=mcd0a14a09baf81f852e1750b9a2bfeb4>

Meeting number (access code): 137 213 7837

Meeting password: JmK4m52w7f3