

SFB 1280  
presents

# Johannes Felsenberg

Friedrich Miescher Institute

## Changing memory, on the fly



October 6, 2022, 16:00  
RUB, IB 6/127, or hybrid on [Zoom](#)



Memories can be changed. However, the processes that lead to the adjustment of learned information can be very different. In his talk, Felsenberg presents his insights into the neural circuit mechanisms of memory formation, extinction, reconsolidation, and recovery of forgotten memory in the fruit fly *Drosophila melanogaster*. Flies can associate odor cues with reward or punishment. Retrieval of the associative memories with different protocols can either trigger extinction learning or memory reconsolidation. In his latest work, Felsenberg finds that a weak aversive memory is forgotten quickly. However, a training related reminder has the potential to recover the memory. In his talk, he gives an overview of how recurrent circuits recruit dopaminergic signaling to establish different mechanisms of memory re-evaluation.



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