



SFB 1315

Mechanisms and Disturbances in Memory Consolidation:
From synapses to systems

Tuesday

NOV 18, 2025
4:00 pm

BCCN Lecture Hall

Philippstraße 13/Haus 6

10115 Berlin

Meeting-ID: 775 491 0236

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SFB 1315 LECTURE SERIES 2025

RNA BASIS OF MEMORY

ORIANE MAUGER

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Max Planck Institute for Psychiatry
Münich



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Learning relies on neuronal plasticity through the dynamic modification of proteome repertoire. Among the mechanisms that trigger proteome remodeling, activity-dependent transcription and -translation programs have been shown to be essential for learning and memory. Yet, alternative splicing is the main driver of proteome diversification and its regulation emerges to dramatically impact on the neuronal proteome upon stimulation. Surprisingly, its role in learning and memory remains largely unexplored. In the lab, we are exploring splicing regulation after learning and its role in memory formation.

About the speaker

Oriane Mauger, PhD, is a Group Leader at the Max Planck Institute of Psychiatry. Dr. Mauger's research focuses on the intricate role of RNA metabolism in neuronal function, particularly its contribution to memory formation.

Dr. Mauger received in 2014 her PhD in Molecular Biology from the Pasteur Institute and the University Paris VI, France (Christian Muchardt group), where she investigated the interplay between gene expression pathways, specifically alternative splicing and epigenetic regulation. Transitioning her expertise to neuroscience for her postdoctoral studies at the Biozentrum of the University of Basel (Peter Scheiffele group), she explored the regulation of gene expression in response to neuronal stimulation. Her postdoctoral work led to the discovery of a novel mechanism enabling the rapid upregulation of gene expression independent of new transcription. This mechanism involves the long-term storage of immature transcripts within the neuronal nucleus and their rapid, on-demand release via splicing completion upon stimulation. In 2017, Dr. Mauger received a prestigious career development award from the Swiss National Foundation (Ambizione grant) to develop her

independent research in the group of Peter Scheiffele. Since 2024, Dr. Mauger's group at the MPI of Psychiatry investigates how this newly discovered mechanism, alongside other RNA metabolism processes, contributes to the complex mechanisms underlying memory formation.

This invited talk is hosted by SFB1315 Project A05 (Postdoc Annapoorani Udhayachandran)

Certificate of attendance

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