SFB 1315
Mechanisms and Disturbances in Memory Consolidation:
From synapses to systems

Tuesday

APR 14, 2026
4:00 pm

BCCN Lecture Hall
Philippstraße 13/Haus 6
10115 Berlin
Meeting-ID: 775 491 0236
SFB1315.ifb@hu-berlin.de

SFB 1315 LECTURE SERIES 2026

CHASING DOPAMINE OFF THE BEATEN PATH: A SMELLS, HETEROGENEITY, PLASTICITY AND LEARNING STORY

ELISA GALLIANO

Associate Professor in Neuroscience
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Department of Physiology
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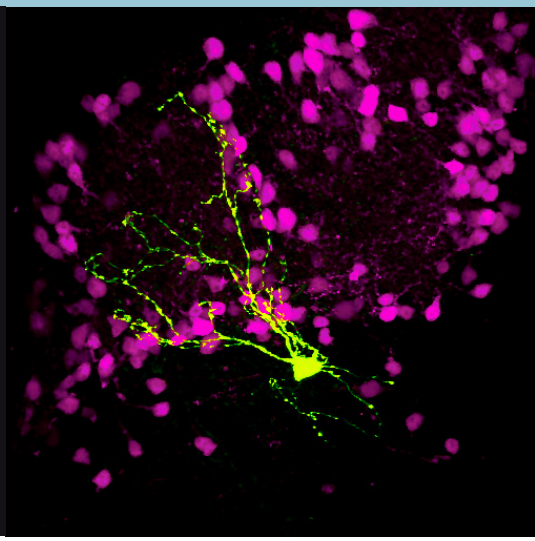

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Dopaminergic neurons in the olfactory bulb play an important role in early sensory processing by modulating synaptic gain and exhibiting remarkable plasticity. These neurons are highly heterogeneous in their responses to sensory deprivation: some undergo structural and excitability changes, others primarily adjust their synaptic connections, and some can even regenerate throughout life.

This diversity in plasticity is more pronounced than that seen in excitatory neurons, suggesting a mechanism for rapid and flexible tuning of sensory processing.

Using a multi-level approach from synapses to behaviour, our lab aims to understand how this cellular heterogeneity shapes neuronal output, supports learning, and influences sensory-driven behaviours.

Host:

This invited talk is hosted by SFB1315 project A09 (Prof. Dr. Livia de Hoz). SFB1315 Speaker Matthew Larkum (A04, A10, Z), will moderate Q&A.

Certificate of attendance:

Please contact
sfb1315.ifb(at)hu-berlin.de

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