13.10.2026 14:00 - 13.10.2026 15:00

Investigating the roles of adhesion GPCRs in synapse formation and circuit assembly

Max-Planck-Institut für Multidisziplinäre Naturwissenschaften (MPI-NAT, City-Campus)

Bidirectional trans-synaptic signaling directs synapse formation and neural circuit assembly. Increasing evidence supports that several subfamilies of adhesion G protein-coupled receptors (aGPCRs) control important mechanistic aspects of synapse assembly and neural circuit wiring by combining trans-synaptic adhesion with GPCR signaling. I will discuss the role of aGPCRs in establishing striatal D2 medium spiny neuron circuits, and our recently developed time-lapse imaging approaches to visualize synapse formation.

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Schlagwörter
Brain Research
Neurobiologie
Molekularbiologie

Veranstaltungsart
Seminar

Kategorie
Forschung

Sprache
Englisch

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