



Online Seminar

## “Dissecting cell-surface interactions and downstream mechanisms orchestrating specific synaptic connectivity”

### Speaker

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### Time

**Thursday, 1<sup>st</sup> December 2022**

**5:00 PM**

### Location

**via zoom**

<https://gwdg.zoom.us/j/85147921523?pwd=RHpuSGFaUXlnMWVZOWFIVjUwTVAxQT09>

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### Abstract

Neural circuits are composed of distinct neuronal cell types connected in highly specific patterns. Unraveling how neurons form appropriate synaptic connections during development is a key challenge in neuroscience and is essential to understand brain function and disease. Neural circuit formation critically relies on cell-cell recognition and communication mediated by cell-surface ligands and receptors. The complexity of the cell-surface interactions that regulate precise synaptic connectivity and specify synaptic properties is only beginning to emerge. In this talk, I will discuss our recent work dissecting the cell-surface interaction networks and downstream mechanisms that control connectivity, structure and function of specific synapses in developing neural circuits.