

## **Neuroscience Colloquium**

## Summer Semester 2019

Lectures are held Thursdays, 5 p.m. Venue: Paul-Ehrlich Lecturehall, Virchowweg 4, next to CCO

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## Spatial, temporal, and molecular control of synaptic vesicle exocytosis and endocytosis

Synaptic vesicles fuse with the plasma membrane for neurotransmission. Subsequently, these vesicles are retrieved, and new vesicles are reconstituted locally at synapses. However, how exocytosis and endocytosis are controlled spatially and temporally remains enigmatic. We developed novel techniques in electron microscopy to capture membrane and protein dynamics with millisecond temporal resolution. In the seminar, I will discuss our recent progress on when, where, and how vesicles are consumed and recycled at synaptic terminals.

> Location: Paul Ehrlich-Hörsaal, Charité – Universitätsmedizin Berlin, Campus Mitte Virchowweg 4, next to CCO
> Date: Thursday, April 11<sup>th</sup>, 5 p.m.
> Host: Christian Rosenmund

Neuroscience Colloquium is supported by: DZNE e.V. German Center for Neurodegenerative Diseases; Einstein Center for Neurosciences Berlin; Cluster of Excellence NeuroCure; SFB 1315. Organized by NeuroCure: Christian Rosenmund; contact: heidi.pretorius@charite.de