

Neuroscience Colloquium

Winter Semester 2018/2019

Lectures are held Thursdays, **5 p.m.**

Venue: Paul-Ehrlich Lecturehall, Virchowweg 4, next to CCO

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Regulation of goal directed behavior and habits by cholinergic interneurons from the dorsal striatum: implication for eating disorders

Cholinergic interneurons are pivotal regulator of the striatal network. These interneurons transmit with both acetylcholine (ACh) and glutamate that have almost opposite effects. We investigated the role of ACh/glutamate co-transmission in dorsal striatum functions such as goal directed behavior and habits and its impact upon maladaptive eating behaviors. Interestingly, silencing glutamate favours goal directed behaviors whereas silencing ACh precipitate excessive habits formation, sucrose binge eating and activity based anorexia in mice. This project helped to identify potential treatment for eating disorders.

Location: Paul Ehrlich-Hörsaal,
Charité – Universitätsmedizin Berlin, Campus Mitte
Virchowweg 4, next to CCO

Date: Thursday, **October 25th**, 5 p.m.

Host: Christian Rosenmund

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DZNE e.V. German Center for Neurodegenerative Diseases;
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