Neuronal circuits underlying goal-directed behavior

Lee Seung-Hee, Petersen Carl

Frequency
Only this year

Remarque
Next time: Spring 2018

Summary
The brain can be viewed as a network of neurons receiving sensory input and carrying out experience- and context-dependent computations through complex synaptic interactions to drive motor output, i.e. behavior. Here, we will study recent advances in knowledge of neural circuits in the mouse brain.

Content
Students will learn state-of-the-art analyses of neuronal circuit function contributing to simple learned goal-directed behaviors in mice. We will critically evaluate current understanding through in depth discussion of various topics, guided by selected papers (Thursdays 5 - 7 pm; 7 x 2 hours = 1 ECTS):

22nd March 2018

29th March 2018

12th April 2018

19th April 2018

26th April 2018

17th May 2018

28th June 2018

13th July 2018 (written report submission deadline)
For written evaluation, each student will critically discuss a neuronal circuit for a specific mouse behavior.

Note
Maximum number - 8 students

Keywords
Learning Prerequisites
   Important concepts to start the course
   Strong interest in Neuronal Circuit function
   Learning outcome - to critically evaluate studies of neural circuits and behavior.

Assessment methods
   13th July 2018 (written report submission deadline)
   For written evaluation, each student will critically discuss a neuronal circuit for a specific mouse behavior.