

BIO-693(10)

State of the Art Topics in Neuroscience X

Gräff Johannes, Invited lecturers (see below), Sandi Carmen

Cursus	Sem.	Type
Neuroscience		Opt.

Language of teaching	English
Credits	1
Session	
Exam	Oral presentation
Workload	30h
Hours	14
Courses	14
Number of positions	24

Frequency

Only this year

Remark

Canceled for 2020-21

Summary

This symposium "What is memory? Molecular, cellular and computational answers" brings together leading experts in the field of learning and memory who will share their latest findings on the eternal question- What are memories made of? A broad range of approaches will be covered

Content

This symposium brings together leading experts in the field of learning and memory with the aim of bridging the gaps between the various sub-disciplines that all address the eternal question of what memories are made of, and ultimately of what defines us as individuals. Their expertise ranges from molecular to cellular biology, from circuit to systems neuroscience, as well as from computational neurobiology to cognitive psychology. A particular highlight of this symposium will be the round-table discussion of all speakers, during which they will each give short pitches on what they think defines a lasting-memory. These pitches will then be open for discussion not only among the speakers, but among all participants. Students will therefore be exposed to a broad range of memory research.

Students will be evaluated by giving short oral presentations in teams of two during the weeks that follow the symposium on one particular aspect covered during the symposium.

Note

By the end of this course the student should be able to understand the different aspects of contemporary memory research.

Invited speakers: Andreas Papassotiropoulos, Basel; Anne West, Duke; Cristina Alberini, NYU; Tobias Bonhoeffer, MPI; Steve Ramirez, BU; Davide Dupret, Oxford; Paul Frankland; Toronto; Inbal Goshen, Jerusalem; Claudia Clopath, London; Katharina Hencke, Bern; Liz Phelps, Harvard; Frederic Mery, Paris.

Keywords

Genetics; epigenetics; synaptic plasticity; neurons; astrocytes; cognitive neuroscience; engram; evolution; emotion; oscillations; computation; consolidation.

Learning Prerequisites**Required courses**

None

Recommended courses

None

Assessment methods

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