COURSE DETAIL

THE MAMMALIAN BRAIN: STRUCTURE, FUNCTION AND PLASTICITY I
Country Germany
Host Institution Free University of Berlin
Program(s) Humboldt University Berlin,Free University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title THE MAMMALIAN BRAIN: STRUCTURE, FUNCTION AND PLASTICITY I
UCEAP Transcript Title MAMMALIAN BRAIN I
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course includes electrophysiological recordings (patch-clamp recordings) of neurons in acute brain slices from mice. The basic properties of neurons and their synaptic connections are analyzed. The patch-clamp technique (current and voltage-clamp), neuropharmacology, and stimulation protocols for long-term changes in synapses are taught as methods. Programs such as IGOR are used for the quantitative analysis of the data. In the accompanying seminar, the students present their own project and other relevant publications.

Language(s) of Instruction
English

Host Institution Course Number
23434a,23434b

Host Institution Course Title
THE MAMMALIAN BRAIN: STRUCTURE, FUNCTION AND PLASTICITY I

Host Institution Course Details
https://www.fu-berlin.de/vv/de/lv/744806?m=358897&p=358385&pc=480913&sm=727423

Host Institution Campus

Host Institution Faculty
BIOLOGIE, CHEMIE, PHARMAZIE

Host Institution Degree

Host Institution Department
Biologie

Course Last Reviewed
2022-2023

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