neu140 - Neurophysiology

Module label: Neurophysiology
Module code: neu140
Credit points: 9.0 KP
Workload: 270 h
Used in course of study: Master's Programme Neuroscience > Background Modules
Contact person: Module responsibility
- Martin Greschner
Authorized examiners
- Alle hier genannten
Module counseling
- Karin Dedek
- Jutta Kretzberg

Entry requirements: attendance in pre-meeting
Skills to be acquired in this module:
- Neurosci. knowlg. Expt. methods Independent research + Scient. literature + Social skills
- Interdiscipl. knowlg. + Maths/Stats/Progr. + Data present./disc. + Scientific English + Ethics

Theory: Improved theoretical and methodological knowledge in neurobiology. Discussion of scientific work and presentation of own results.
Practice: Performing electrophysiological experiments. Gaining modern methodological skills.

Module contents:
- Lecture: first week, 5*4 h introduction to current neurophysiology.
- Seminar: weeks 2-4, each 4 h discussion of background literature and results of own experiments.
- Lab course: weeks 2-4, each 25 h electrophysiological experiments with introduction to at least two of the techniques extracellular recording / intracellular recording / patch clamp

Reader’s advisory: Background and seminar literature will be available in Stud.IP

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Reference text: Course in the first half of the semester
- Regular active participation and presentation(s) within the scope of the seminar are required to pass the module

Modulelevel: MM (Mastermodul)
Modulart: Wahlpflicht

Lern-/Lehrform / Type of program:

Vorkenntnisse / Previous knowledge:

Examination: Final exam of module
Time of examination: summer semester, first half
Type of examination: Portfolio consisting of short tests and short reports

Course type: Comment SWS Frequency Workload attendance
Lecture: 2.00 28 h
Seminar: 1.00 14 h
Practical: 5.00 70 h

Total time of attendance for the module: 112 h