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:

<table>
<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
<th>Portfolio consisting of short tests and short reports</th>
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<tbody>
<tr>
<td>Final exam of module</td>
<td>summer semester, first half</td>
<td>Portfolio consisting of short tests and short reports</td>
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Course type:
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<tr>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>2.00</td>
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<td>28 h</td>
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<tr>
<td>Seminar</td>
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<td>Practical</td>
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<td>70 h</td>
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Total time of attendance for the module: 112 h