neu570 - Development and Evolution of the Auditory System

Module label: Development and Evolution of the Auditory System
Module code: neu570
Credit points: 15.0 KP
Workload: 450 h
Used in course of study: Master's Programme Neuroscience > Research Modules

Contact person
Module responsibility
- Ulrike Sienknecht

Authorized examiners
- Alle hier genannten

Module counseling
- Hans Gerd Nothwang
- Christine Köppl

Entry requirements
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
- Introduction to experimental research in the field of development and evolution of the auditory system.

Module contents
Two-week introductory course into current research questions and techniques of the field; followed by 5 weeks of small-group lab projects, participating in the supervisor's ongoing research, and in the group seminar. There are several options for the lab projects, in the broad categories of:
1. Molecular development and evolution of the peripheral auditory system (Sienknecht)
2. Molecular development and evolution of the central auditory system (Nothwang)
3. Comparative studies of the peripheral or central auditory system (Köppl)
4. Regenerative medicine of the auditory system (Löwenheim, Müller)

Reader's advisory
Springer Handbook of Auditory Research (SHAR); Sanes et al. eds. Development of the Nervous System, Academic Press; and research papers (original papers and reviews)

Links
Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Reference text: Course in the second half of the semester usually in winter term; lab component is flexible and subject to individual arrangement. Participation in a joint poster presentation of concurrent research modules is required to pass the module.

Modullevel: MM (Mastermodul)
Modulart: Wahlpflicht

Vorkenntnisse / Previous knowledge

Examination
Final exam of module
Time of examination: within 2 months after completion of experimental work
Type of examination: Portfolio: 60% presentation, 40% internship report (paper or poster format)

Course type
Lecture: 1.00, Seminar: 1.00, Projektorientiertes Modul: 9.00
Frequency: WiSe
Workload attendance: 14 h, 14 h, 126 h, 154 h

Total time of attendance for the module: 154 h