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.

Module level
MM (Mastermodul)

Modulart
Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

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

Course type
Comment
SWS
Frequency
Workload attendance
Lecture
1.00
14 h
Seminar
1.00
14 h
Projektorientiertes Modul
9.00
WiSe
126 h
Total time of attendance for the module
154 h

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