bio695 - Biochemical concepts in signal transduction

Module label: Biochemical concepts in signal transduction
Module code: bio695
Credit points: 12.0 KP
Workload: 360 h
Used in course of study:
- Master's Programme Biology > Background Modules
- Master's Programme Neuroscience > Background Modules

Contact person:
- Module responsibility: Karl-Wilhelm Koch
- Authorized examiners: Karl-Wilhelm Koch, Alexander Scholten
- Module counseling: Alexander Scholten

Entry requirements

Skills to be acquired in this module:
++ deepened biological expertise
++ deepened knowledge of biological working methods
++ data analysis skills
+ interdisciplinary thinking
++ critical and analytical thinking
+ independent searching and knowledge of scientific literature
++ data presentation and discussion in German and English (written and spoken)
+ teamwork
+ project and time management

Module contents
Lecture: Molecular fundamentals of cellular signal processes
Seminar: Signal transduction
Exercises: Experiments on cellular signal transduction and enzymology

Reader's advisory:
Mechanisms of biochemical signal transduction are imparted theoretically and experimentally
Textbooks of cell biology and biochemistry. Current literature on topics of signal transduction (as announced in the preparatory meeting).

Links
Language of instruction: English
Duration (semesters): 1 Semester

Module frequency
Module capacity: 20
Module level: ---
Module type: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Vorkenntnisse / Previous knowledge

Examination
Time of examination: 90 minutes written exam
Type of examination: written examination (50%) protocols (50%)

Course type
Comment
SWS
Frequency
Workload attendance
Lecture: 1.00 WiSe 14 h
Seminar: 1.00 WiSe 14 h
Exercises: 6.00 WiSe 84 h
Total time of attendance for the module: 112 h