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 Biology > Background Modules
- Master's Programme Neuroscience > Background Modules

Contact person:
Module responsibility:
- Karl-Wilhelm Koch

Authorized examiners:
- Karl-Wilhelm Koch
- Alexander Scholten

Module counselling:
- 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

Mechanisms of biochemical signal transduction are imparted theoretically and experimentally.

Reader's advisory:
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
Modulart: je nach Studiengang Pflicht oder Wahlpflicht

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

Examination:
Final exam of module:
Time of examination: 90 minutes written exam
Type of examination: written examination (50%) protocolls (50%)

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