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

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: ---
Modulant: 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%) protocols (50%)

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