neu750 - Laboratory Animal Science

Module label: Laboratory Animal Science  
Module code: neu750  
Credit points: 6.0 KP  
Workload: 180 h  
Used in course of study: Master's Programme Neuroscience > Skills Modules  
Contact person: Christine Köppl

Module responsibility:

- Christine Köppl

Authorized examiners:

- Alle hier genannten

Module counseling:

- Ulrike Langemann
- Georg Martin Klump
- Arne Nolte
- Gabriele Gerlach

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

Upon successful completion of this course, students will:

- know the relevant EU legislation governing animal welfare and are able to explain its meaning in common language
- understand and are able to critically discuss salient ethical concepts in animal experimentation, such as the three Rs and humane endpoint.
- have basic knowledge of the biology and husbandry of laboratory animal species held at the University of Oldenburg (rodents and birds)
- are able to critically assess the needs and welfare of animals without compromising scientific integrity of the investigation
- have practical skills in handling small rodents and birds
- have profound knowledge of anaesthesia, analgesia and basic principles of surgery.
- have practised invasive procedures and euthanasia.

NOTE: These objectives aim to satisfy the requirements for EU directive A „Persons carrying out animal experiments“ and EU directive D „Persons killing animals“ for rodents, birds and fish. We aim to obtain accreditation by the Federation of European Laboratory Animal Science Associations (FeLaSa) by mid-2017.

Module contents:

Background knowledge on:

- Legislation, ethics and the 3Rs
- Scientific integrity
- Data collection
- Basic biology of rodents, birds and fish
- Husbandry, and nutrition of rodents, birds and fish
- Animal Welfare
- Health monitoring
- Pain and distress
- Euthanasia

Practical procedures will first be demonstrated, important aspects will then be practiced under supervision by every participant:

- Handling and external examination of mouse, gerbil, zebra finch, chicken, zebra fish
- Administration of substances, blood sampling
- Euthanasia and dissection
- Transcardial perfusion
- Anaesthesia and surgery

Reader’s advisory:

"LAS interactive“ internet-based learning platform

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: halbjährlich
Module capacity: unlimited
Reference text:
In addition to the exam, completion of an assignment is required to pass the module.
GV-SOLAS accreditation aimed for in 2016, FELASA in 2017

Modullevel: MM (Mastermodul)
Modulart: Wahlpflicht

Vorkenntnisse / Previous knowledge:
Examination
Time of examination: within 2 months of completing the course
Type of examination: Written exam of 90 min.

Final exam of module
Course type: Comment
Lecture: 2.00
Exercises: 3.00
Frequency
Workload attendance
28 h
42 h
70 h

Total time of attendance for the module: 70 h