

Module title		Abbreviation
Laboratory Animal Sciences 2		03-98-FSQ-VTK2-152-m01
Module coordinator		Module offered by
holder of the Chair of Experimental Biomedicine and Animal Welfare Officer of the University of Würzburg		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>According to the Animal Welfare Regulation Govering Experimental Animals (TierSchVersV), animal experiments on vertebrates and cephalopods may only be carried out by persons who possess the required knowledge and skills. This means that both theoretical and practical expertise must be acquired.</p> <p>In the lecture Animal Welfare and Laboratory Animal Science, the theoretical knowledge is taught, which is listed in Annex 1 Chapter 3 TierSchVersV.</p> <p>In terms of content, the module is based on EU Directive 2010/63 for acquiring expertise in animal welfare (formerly FELASA Cat. B). Based on the background of the specific biology, anatomy and physiology of the animal species mouse, optionally also of the rat, which are recapitulated in the module in an application-oriented manner, the students* learn and practice exemplary essential animal experimental techniques with a focus on keeping and handling the animals, administration of substances, sampling of biological probes, anesthesia and analgesia through to surgical interventions and the painless and low-stress euthanasia of animals. In addition to the methodological and experimental principles, the module also focuses on acquiring in-depth knowledge of the german animal protection law and the TSchVersVO as well as the ability for an ethical consideration of animal experiments in the area of conflict between animal protection and medical-translational research.</p>		
Intended learning outcomes		
<p>Students acquire the expertise for the theoretical part for conducting animal experiments, which is certified by passing the exam. Raising awareness of ethical issues related to the relationship between humans and animals, intrinsic value of life, and arguments for and against the use of animals for scientific purposes.</p> <p>The formal objective is the acquisition of animal welfare expertise based on the EU directive in consultation with the local authorities. The course enables you to handle laboratory animals in an animal welfare-friendly manner, conveys core competencies in animal experiments, taking into account the complexity of the entire organism, and methodological requirements for planning and conducting your own animal experiments. It teaches the legal animal welfare principles for applying for your own experimental projects. A special concern is the raising of awareness for the respect of the experimental model as a pain-sensitive living being while maintaining objective experimental principles.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + P (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 minutes)		
Allocation of places		
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Additional information		
Equivalent to animal welfare qualification (GV-SOLAS (Society of Laboratory Animals) / FELASA category B).		
Workload		
90 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Biomedicine (2015)
Master's degree (1 major) Experimental medicine (2015)
Supplementary course Translational Medicine (2018)
Bachelor' degree (1 major) Biomedicine (2018)
Master's degree (1 major) Translational Medicine (2018)
Bachelor' degree (1 major) Biomedicine (2020)