

Certification of knowledge and skills for collaborators in animal experiments at the University of Tübingen (by using of the LAS interactive training platform)

Registration for the course:

At the office of the animal welfare officer via Annex 1 and 2 of this document

Calwerstr. 7/4,
72076 Tübingen,
Fax: 07071/29-5867,
mailto: sekretariat.tschb@med.uni-tuebingen.de

Contact persons in case of questions:

Dr. Ursula Kohlhofer, <mailto:ursula.kohlhofer@med.uni-tuebingen.de>, Tel: 07071/29-84698
Dr. Friederike Bothe, <mailto:friederike.bothe@med.uni-tuebingen.de>, Tel: 07071/29-81178
Dr. Mai Le, E-Mail: <mailto:mai.le@med.uni-tuebingen.de>, Tel: 07071/29-85261

I. Theorie MODULE

Please register for the course at the Einrichtung für Tierschutz, Calwerstr. 7/4, 72076 Tübingen (Annex 1 and 2, see pages 8 and 9 below). After registration, you will receive an institute code for the registration with LAS interactive.

Instructions for the registration with LAS ineractive:

<http://www.las-interactive.de/>

The screenshot shows the LAS interactive website interface. At the top right, there is a language selection dropdown menu with 'EN' selected, and options for 'Deutsch', 'English', and 'Français'. Below this, the navigation bar includes the LAS interactive logo, a 'MENU' icon, 'Homepage', another 'EN' dropdown, and a 'Login' button. A red box highlights the 'Login' button. In the center, there is an illustration of various laboratory animals (dog, cat, mouse, rat, guinea pig). Below the illustration, the text reads 'INFORMATION AND TRAINING PLATFORM FOR LABORATORY ANIMALS'. At the bottom, there is a section titled 'OUR OFFER' with a dropdown arrow. A red box highlights the 'To registration' link in the footer. A red arrow points from the 'Login' button to the 'To registration' link. A red box at the bottom right contains the text 'Login => To Registration or Login'.

REGISTRATION

Please use only your business or university email address to register. Private email addresses are excluded from registration. If you don't have a business or university email address, please contact us at admin@las-interactive.de and we will find a suitable solution for you.

Create a new user-profile

Username *	Email *
<input type="text"/>	<input type="text"/>
Company / institute / establishment *	Institute code (if applicable)
<input type="text"/>	<input type="text"/>
Password *	Profession
<input type="text"/>	Please select <input type="text"/>
Repeat Password *	
<input type="text"/>	
Accept general terms and conditions and data protection *	
<input type="checkbox"/>	
<input type="button" value="Create Profile Now"/>	

You will receive the institute code after registration with Annex 1 and 2 at the Einrichtung für Tierschutz (see addresses above). It is required if an exam is planned.

Overview
EU modules

VTK ONLINE
INFORMATION PORTAL

LAS CAMPUS
ONLINE COURSES

Overview
courses

WHAT IS VTK ONLINE?

vtk online is a free information platform on laboratory animal science topics. It was developed in the framework of the funding guidelines of Germany's Federal Ministry of Education and Research (BMBF) on "Alternatives to animal experiments" and expanded through DFG funding.

During the implementation of EU Directive 2010/63/EU a new, modular learning and teaching concept was recommended (for information on this see under [Modular training](#)) and vtk online has been structured accordingly.

WHAT LAS CAMPUS HAS TO OFFER

People who work with laboratory animals need to be adequately trained and qualified and to undergo continuing education. For this, las campus offers various online training options. We also create modules to order and can compile modules for you for specific teaching and training purposes. Examples of what we have to offer are:

- online courses to acquire knowledge in accordance with Annex 1 Section 3 TierSchVersV (DE: People who perform or plan and design experiments);

-- Registration with LAS interactive is essentially free of charge --

Here you may choose either the free information platform VTK ONLINE (Information portal) or the educational platform LAS CAMPUS (Online courses) => for preparation of the exam, please choose **LAS CAMPUS**

Instructions for exam registrations:

The screenshot shows the LAS CAMPUS website interface. At the top, there is a navigation bar with 'VTK ONLINE' and 'LAS CAMPUS' logos. The main heading is 'WELCOME TO LAS INTERACTIVE'. The page is divided into several sections:

- MEDIA CENTER**: Includes links for Videos, image galleries, and interactive content.
- MY LAS CAMPUS**: Includes links for My courses | modules (circled in red) and Quizzes.
- MY ACCOUNT**: Displays user information: Username: ursula.kohlhofer, Email: ursula.kohlhofer@med.uni-tuebingen.de, Expiration date: 30.06.2021, and a link to Edit profile.
- NEWS**: Includes news items: 'Our office will be closed 23.12.2020 (1 pm) – 03.01.2021', 'New interactive presentations available', and 'LAS interactive wishes happy holidays!'. A link for 'All News' is also present.
- HELP AND CONTACT**: Includes links for Education, Training & CPD, FAQ, Contact, and Terms and conditions.

A red box highlights the text 'Choose: My courses / modules' below the 'MY LAS CAMPUS' section.



MY COURSES

THE FRAMEWORK CONDITIONS AGREED WITH YOUR INSTITUTION ARE AS FOLLOWS

COURSE SECTIONS

- Course 01.0 TierSchVersV including surgical procedures - General part [to course](#) [to quiz](#)
- Course 01.1 TierSchVersV - Focus on the mouse [to course](#) [to quiz](#)
- Course 01.2 TierSchVersV - Focus on rats [to course](#) [to quiz](#)
- Course 01.3 TierSchVersV - Focus on the rabbit [to course](#) [to quiz](#)

The course sections can only be used together as proof of competence according to TierSchVersV.

CERTIFICATE

- For certificates sent by post and transfer the corresponding certificate to the interactive system.
- The certificate confirming the completion of the exam in the interactive system.

For the exam, all course parts mentioned here must be prepared.

- The button "to course": you will get to the theoretical basics.
- The button "to quiz": you can check your learned knowledge.

BOOK EXAM

COST: 370.00 €, EXCL. VAT

Before booking, please read the [+ billing instructions](#) and the framework conditions agreed with your institution (see left) carefully.

[Booking](#)

Clicking on the booking button sets up your exam for you (DE|EN|FR) and takes you to the booking form.

After entering your details in the relevant fields of the booking mask, you can save them on your computer in pdf format and print them out. The booking only becomes binding when we receive the completed and signed booking form (by fax/mail).

The details you have entered will not be saved in the LAS interactive database and are only used for the purposes of billing and issuing the certificate.

BOOK EXAM

COST: 370.00 €, EXCL. VAT

Before booking, please read the [+ billing instructions](#) and the framework conditions agreed with your institution (see left) carefully.

[Booking](#)

Clicking on the „booking button“ sets up your exam for you ((DE|EN|FR) and takes you to the booking form.

Only after sending the completed booking form your registration for the exam is binding.

Please note the following procedures:

- 1.) Fill in the booking form
- 2.) Sign it. The signature is needed from you and your supervisor
- 3.) Send it to us as pdf/housepost (see addresses above: Dres. Bothe/Kohlhofer/Semrau)
- 4.) The filled in and signed form will be sent from us to LAS interactive

on sets up your exam for you the booking form.

n the relevant fields of the booking n your computer in pdf format and only becomes binding when we signed booking form (by fax/mail).

d will not be saved in the LAS e only used for the purposes of cate.

Contact in case of questions about the platform:

admin@las-interactive.de

Further contact persons:

Fr. Dr. Nicole Linklater (Managing Director)

Telephone: +49 (0)6421-2823495

Fr. Hannah Griebel, MSc & Hr. Gabriel Gehring

Telephone: 06421-2823557

Fax: +49 (0)6421 28-28937

Framework of LAS CAMPUS:

- Fee 370,- €, no VAT for members of the university
- Access to the exam after receipt of payment (please book in time).
- Please arrange an examination date with:
Dr. Ursula Kohlhofer, ursula.kohlhofer@med.uni-tuebingen.de,
Tel: 07071/29-84698 or
Dr. Friederike Bothe, friederike.bothe@med.uni-tuebingen.de,
Tel: 07071/29-85261 or
Dr. Mai Le, mai.le@med.uni-tuebingen.de, Tel: 07071/29-85261
- Exam: Duration 60 min, 40 questions, at least 70% hits to pass exam
- Exam language DE|EN|FR
- Once-only repetition of the exam possible without additional fee
- After confirmation of payment, the certificate of the passed exam will be sent as a PDF file to the registered email address only.
- For postal delivery, 3 € will be charged. Please check the appropriate box in the form, if you wish postal delivery.

Please pay attention to the correct / complete billing address. An additional service fee of 10 € is charged for undeliverable / non-assignable bills.

II. Practical Animal Experiment MODULE

The practical part has to be imparted in the institutes' own labs. It will be completed by an exam conducted by an animal welfare officer. In parallel with the theoretical part, candidates are introduced by their working group into the practical part of laboratory animal science and into the concrete projects, they will participate in. After passing the theoretical part and being introduced completely into all relevant fields of activity, please inform the animal welfare officer and arrange an examination date for the practical part.

Please have your supervising tutor confirm your assistance and practical introduction into the various interventions and manipulations using the table below (Annex 3).

This table has to be presented to the animal welfare officer before the practical exam. The entries should be in accordance with the "Tierschutzversuchstierverordnung (Anlage 1 Abschnitt 3)". During the practical exam, especially the yellow marked points will be relevant (points 3, 4, 6, 7, 8, 11, 13, 14).

According to §16 passage 1 sentences 1 and 2 of the Tierschutzversuchstierverordnung (TierSchVersV) animal experiments with vertebrates and cephalopods may only be planned and/or executed by persons, that possess the knowledge and skills according to annex 1 chapter 3 TierSchVersV.

All techniques should be imparted by the working group. If there are special interventions, that are not performed by the own group, other working groups can be asked to show them. For the points marked with *), an introduction at the animal welfare officer's facility is possible.

Knowledge and skills according to the „Tierschutzversuchstierverordnung“	Examples
1. Valid legal regulations on the implementation of animal experiments.	
2. Ethics with regard to the relationship between humans and animals, intrinsic value of life and arguments for and against the use of animals for scientific purposes.	
3. Principles of biology and appropriate species-specific biology with regard to anatomy and physiological characteristics, breeding, genetics and genetic modification.	Dissection of dead animals *)
4. Animal behavior and requirements for and methods of keeping, including enrichment of the housing facilities (general and species-specific).	sexing
	Types and sizes of cages, group size
	Animal behavior – Recognition of characteristics
	Recognition of pathological changes
	Group size
	Enrichment
5. Animal health management and hygiene.	
6. Species-specific methods of handling and experiments.	Handling of mice/rats
	Fixation techniques
	Application and blood draw techniques
	Identification methods for laboratory animals
7. Recognition of species-specific pain and suffering in the species most frequently used for animal experiments.	Depends on experiment and species
8. Use of end-points as pain-free as possible.	Explain examples (experimentally determined)
9. Requirements of the principle of the indispensability of animal experiments pursuant to Section 7 subsection 1 sentence 2 and Section 7a subsection 2 numbers 2, 4 and 5 of the Animal Welfare Act.	
10. Planning of procedures and projects, where appropriate (is mandatory for the planner of an experiment, usually project leader and/or deputy).	
11. Relevant experimental techniques and operative procedures.	Depends on experiment and species
12. Research and evaluation of scientific literature, including any on alternatives to animal experiments.	
13. Anesthesia and pain relieving methods.	Injection and inhalation anesthesia
	postoperative analgesia
14. Wherever the killing the animals is also contemplated in the course of implementation, the knowledge and skills under Chapter 2.	Humanely killing *)
15. Biometric statistics.	

Annex 1

Registration to the certification of knowledge and skills for collaborators in animal experiments (with LAS CAMPUS resp. VTK online)

Dates: individually possible

Registration: at the office of the animal welfare officer

Calwerstr. 7/4, 72076 Tübingen, Fax 07071/29-5867, sekretariat.tschb@med.uni-tuebingen.de

First name	Name	Mrs/Mr.	Title
Institute/Department	Address	Member of the University of Tübingen Yes No	
Telephone	Fax	E-Mail	
Studies/Graduation	Professional education/Branch		
Laboratory animal scientific expertise is needed for operative (surgical) / non-operative interventions			
Animal species, in which the interventions will be performed			
Short description of the intervention(s), which can be associated with pain, suffering or harm for the laboratory animals			
Permission no. or date of project requiring authorization/formal declaration/notification where appropriate			
Are there any prior knowledge about the planned interventions?			
Nature of the collaboration in the experiment/intervention: under supervision / according to instructions / as project leader / as deputy			
Desired date for the theoretical exam desired language for the theoretical exam <div style="text-align: right;"> <input type="checkbox"/> German <input type="checkbox"/> Englisch <input type="checkbox"/> French <i>(practical exam only in German or English)</i> </div>			

Annex 2

Confirmation of the supervision of the practical animal experiment MODULE

I hereby confirm, that I will introduce Mrs./Mr.
into the practical activities of laboratory animal science. Subsequently, the knowledge and skills will
be tested by the animal welfare officer of the University of Tübingen. The practical introduction is
carried out in the context of the approved/announced animal experiment project no.....

Supervisor:

Institute:

Description of the laboratory animal scientific expertise of the supervisor (course with number of
hours, projects,....)

.....

.....

Date/Signature

Annex 3

Documentation about assistances and/or practical instructions during interventions

Name:

Date	Practical activity about which knowledge was imparted	Species	Date of repetition	Signature Supervisor