

Laboratory Animal Centre (KEKS) organizes a course
USING ANIMALS IN RESEARCH – CARRYING OUT PROCEDURES

February 20 – March 8, 2019

Aim of the course: Persons working with laboratory animals must have adequate education and training before they are allowed to start their work. This course is aimed at those who are planning **to carry out procedures or euthanize animals** in scientific projects. This course is also a part of education for persons designing procedures and projects.

Contents of the course: The contents on the course are based on the Consensus document on the education and training framework (Function A: Persons carrying out procedures on animals; Function B: Persons designing procedures and projects; and Function D: Killing animals): http://ec.europa.eu/environment/chemicals/lab_animals/pdf/Endorsed_E-T.pdf.

Course includes modules for functions A, B & D, detailed in the programme.

The course includes lectures, demonstrations, hands-on training and a written examination. Attendance is compulsory.

Credits: This course (040911S) gives 3 ECTS.

Course fee: 290 euros for the participants from the University of Oulu and the University Hospital. The graduate and post-graduate students are advised to contact their department or supervisor for the payment. The course fee for those coming outside the Oulu University and the Hospital is 390 euros.

Course language: English.

Registration: Starting 9.11.2018 and closing 31.1.2019, to WebOodi (University of Oulu).

After registration, **email your invoicing information to Eija Nissinen**

email: Eija.Nissinen(at)oulu.fi: **faculty, department or your supervisor as well as the invoicing details.**

If you do not have access to WebOodi, email your registration and invoicing details to Eija Nissinen

email: Eija.Nissinen(at)oulu.fi

Maximum number of participants is 50.

More information: Prof. Hanna-Marja Voipio, email: Hanna-Marja.Voipio(at)oulu.fi

NOTICE: Competence to do procedures on animals

A person who has passed this course, has a possibility to gain the species and procedure specific competence by participating in the training practice sessions organised by KEKS. You can train the procedures on mice and rats. You will get a procedure specific certificate after successful procedures. After this practice, you still need to complete your skills before the final competence can be approved. Only a competent person is allowed to do procedures on animals individually.

If you need competence for carrying out procedures on pig or sheep please, ask further advice.

Programme 20.2.-8.3.2019

20.2. Wednesday

Lecture hall P117, Pathology

Core module 1

9:15-12:00

Welcome to the course

Introduction to laboratory animal activities at the University of Oulu

Laboratory animal legislation and regulations

Licenses in animal experiments

Hanna-Marja Voipio, Laboratory Animal Centre, University of Oulu

21.2. Thursday

Lecture hall P117, Pathology

Core module 2

9:15-11:00

Laboratory animal ethics and the 3Rs

Hanna-Marja Voipio

11:00-12:00

Lunch

12:00-14:00

Core module 3.1

Rodents as laboratory animals: Comparative biology and ethology

Anna Meller, Laboratory Animal Centre, University of Helsinki

14:15-16:00

Core module 3.1. and 4

Genetics of laboratory animals

Generation of genemodified mouse models

Reetta Vuolteenaho, Biocenter Oulu, University of Oulu

22.2. Friday

Lecture hall P117, Pathology

Core module 3.1. and 4

9:15-12:00

Environmental factors, husbandry and transport;

2 R's, animal welfare and enrichment

Hanna-Marja Voipio

12:00-13:00

Lunch

13:00-13:45

Core module 4

Nutrition

Sakari Laaksonen, Laboratory Animal Centre, University of Oulu

14:00-14:45

Occupational health in working with laboratory animals

Hanna-Marja Voipio

25.2. Monday*Lecture hall 337B-338B**Core module 4*

9:15-12:00

Microbiological quality, health monitoring, diseases and prevention of diseases; zoonoses

Sakari Laaksonen

12:00-13:00

Lunch

13:00-15:00

Core module 5

Recognition of pain and suffering

Humane end points and severity classification

*Hanna-Marja Voipio***26.2. Tuesday***Lecture hall P117, Pathology**Core module 6.1. and module 20*

9:15-11:00

Anaesthesia, analgesia, perioperative care and euthanasia

Sakari Laaksonen

11:00-12:00

Lunch

12:00-13:45

Lecture hall 101A

Anaesthesia, analgesia, perioperative care and euthanasia

*Sakari Laaksonen***27.2. Wednesday***Lecture hall P117, Pathology*

9:15-12:00

Specific module 7

Surgical asepsis

Handling and experimental procedures, waste regulations

Sakari Laaksonen

12:00-13:00

Lunch

13:00-15:00

Core module 10

Study design level 1

Sakari Laaksonen

Demonstrations and practical hands on work in the Laboratory Animal Centre

Function specific module 3.2

Two similar, alternative sessions:

5.3. Tuesday

Group 1: Get to know your mice and rats

9:00-11:00

KEKS and Department of Experimental Surgery
Hygiene and working in surgical theatre: equipment and instruments
Seija Seljänperä, Department of Experimental Surgery, Oulu University Hospital
Tour in Laboratory Animal Centre
Sakari Laaksonen

11:00-12:00

Lunch

12:00-16:00

Demonstrations in small groups: Animal handling, inspection, identification, sexing, injections and blood sampling, gavage.
Mouse and rat handling and immobilisation in practice.
Demonstrations: isoflurane anesthesia and euthanasia with CO₂.

You can practice injections to euthanized animals.
Rodent anatomy and necropsy.

6.3. Wednesday

Group 2: Get to know your mice and rats

9:00-11:00

KEKS and Department of Experimental Surgery
Hygiene and working in surgical theatre: equipment and instruments
Seija Seljänperä, Department of Experimental Surgery, Oulu University Hospital
Tour in Laboratory Animal Centre
Sakari Laaksonen

11:00-12:00

Lunch

12:00-16:00

Demonstrations in small groups: Animal handling, inspection, identification, sexing, injections and blood sampling, gavage.
Mouse and rat handling and immobilisation in practice.
Demonstrations: isoflurane anesthesia and euthanasia with CO₂.

You can practice injections to euthanized animals.
Rodent anatomy and necropsy.

8.3. Friday

9:00-12:00

Examination