Laboratory Animal Centre (KEKS) organizes a course

USING ANIMALS IN RESEARCH – CARRYING OUT PROCEDURES

February 21 – March 1, 2018

**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](http://ec.europa.eu/environment/chemicals/lab_animals/pdf/Endorsed_E-T.pdf). Course includes the core 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:** 280 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 370 euros.

**Course language:** English.

**Registration:** Starting 23.10.2017 and closing 31.1.2018, 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 regularly by KEKS. You can train the procedures on mice and rats. After this supervised training you can show your skills to the KEKS assessor. 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 21.2.-1.3.2018

21.2. Wednesday
9.15-12.15 Lecture hall P117, Pathology
Welcome to the course
Introduction to laboratory animal activities at the University of Oulu
Laboratory animal legislation and regulations (Core module 1)
Licenses in animal experiments (Core module 1)
Hanna-Marja Voipio, Laboratory Animal Centre, University of Oulu

12.15-13.15 Lunch

13.15-16.00 Rodents and rabbits as laboratory animals: Comparative biology and ethology
(Core module 3.1)
Ulla-Marjut Jaakkola, Central Animal Laboratory, University of Turku

22.2. Thursday
9.15-12.00 Lecture hall P117, Pathology
Microbiological quality, health monitoring, diseases and prevention of diseases; zoonoses (Core module 4)
Sakari Laaksonen, Laboratory Animal Centre, University of Oulu

12.00-13.00 Lunch

13.00-14.30 Genetics of laboratory animals (Core module 4)
Nutrition (Core module 3.1)
Ulla-Marjut Jaakkola

14.45-15.45 Generation of genemanipulated mouse models (Core module 4)
Raija Soininen, Biocenter Oulu, University of Oulu

23.2. Friday
9.15-12.00 Lecture hall P117, Pathology
Environmental factors, husbandry and transport;
2 R’s, animal welfare and enrichment (Core module 3.1. and 4)
Hanna-Marja Voipio

12.00-13.00 Lunch

13.00-13.45 Surgical asepsis (Part of the specific module 22)
Sakari Laaksonen

14.00-16.00 KEKS and Department of Experimental Surgery
Hygiene and working in surgical theatre; equipment and instruments
(Function specific module 7)
Seija Seljänperä, Department of Experimental Surgery, Oulu University Hospital
Tour in Laboratory Animal Centre
Sakari Laaksonen
26.2. Monday 
Lecture hall P117, Pathology

9.15-11.00 Recognition of pain and suffering
(Core module 5)
Hanna-Marja Voipio

11.15-12.00 Anaesthesia, analgesia, perioperative care and euthanasia (Core module 6.1. and Module 20)
Sakari Laaksonen

12.00-13.00 Lunch

13.00-16.00 Anaesthesia, analgesia, perioperative care and euthanasia (Core module 6.1. and Module 20)
Sakari Laaksonen

27.2. Tuesday 
Lecture hall P117, Pathology

9.15-12.00 Occupational health in working with laboratory animals (Core module 4)
Laboratory animal ethics (Core module 2)
Humane end points and severity classification (Core module 5)
Hanna-Marja Voipio

12.00-13.00 Lunch

13.00-16.00 Study design level 1 (Core module 10)
Count the dosage -practice
Sakari Laaksonen

28.2. Wednesday 
Lecture hall P117, Pathology

9.00-11.00 Handling and experimental procedures (Specific module 7)
Waste regulations
Sakari Laaksonen
Demonstrations and practical hands on work in the Laboratory Animal Centre
Function specific Modules 3.2 ja 6.2

Two similar, alternative sessions:

28.2. Wednesday  
Group 1: Get to know your mice and rats

12.00-17.00  
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.

1.3. Thursday  
Group 2: Get to know your mice and rats

12.00-17.00  
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.

Examination dates will be informed later.