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RESEARCH EDUCATION CATALOGUE SPRING 2008-Last day of application for spring term courses, 22 november 2007

Phenotyping of genetically engineered mice

Course number 1974

Points: 3 p

Date:2008-05-12-2008-05-24

Purpose:The aim of the course is to introduce the participants to systematic and standardized phenotyping of genetically engineered mice (GEM), thereby minimizing the number of animals required as well as providing more reliable research results.

Goal:After the finished course, the students must be able to demonstrate basic skills in systematic and standardized phenotypic analysis of mutant (transgenic and knock in/out) mice, relevant aspects of mouse biology and physiology, strategies for developing GEM:s and specific challenges in the breeding of mice.

Contents:The two-week long course covers basic skills in systematic and standardized phenotypic analysis of mutant (transgenic and knock in/out) mice, relevant aspects of mouse biology and physiology, strategies for developing GEM:s and specific challenges in the breeding of mice. Basic techniques and methods for characterizing both simple parameters and more specialized functions (such as behaviour, cardiovascular physiology, neurobiology and developmental biology) will be covered. Aspects in animal welfare are included in the course. Practical demonstrations will cover necropsy procedures as well as techniques for blood sampling. The course participants will be offered opportunities to train in specific practical moments according to their individual project plans. **CONTEXT** During the course the participants should present their projects or field of interests in a short presentation (max. 15 minutes).

Compulsory:Both lectures and group projects are compulsory. Absence from any of these should be compensated for in agreement with the course director.

Number of students:30

Selection:Students will be selected according to their written motivation for why course is particularly important for them in their research.

Course responsible:

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Cell and Molecular Biology (CMB)

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