

Practical PhD course in mouse transgenesis

Aarhus October 3rd to 14th



Objectives: To introduce students to the principle techniques used to modify the murine genome.

This includes hands on exercises and demonstrations of the following techniques:

- Isolation of different stages of pre-implantation embryos
- Culture of pre-implantation embryos
- Pro-nuclear injection
- Blastocyst injection
- Culture of embryonic stem cells
- Transfection and selection of embryonic stem cells
- Isolation of single ES cell colonies
- Analysis of ES cell colonies
- Preparation of selected stages of post-implantation embryos
- Demonstration of techniques used in cloning of larger animals

The students will have the possibility to discuss their own projects with respect to the relevant techniques.

Duration: 10 days; **ECTS points:** 6.5; **Number of participants:** 4-6

Organizers: Associate professor Ernst-Martin Füchtbauer

Location: University of Aarhus, Dept. Molecular Biology

Date: October 2011, week 40-41; **Application deadline:** 15 August 2011

Sent applications with a short letter of motivation to: emf@mb.au.dk



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