

# Transgenesis Seminar

2 or 3 days – session  
CREFRE Platform – Oncopole - Toulouse



## Context

Since the 80s, the analysis of gene expression and function by overexpressing or invalidating genes is performed routinely in mice, leading to a huge number of transgenic models.

**When the lines are phenotypically-characterized**, and in order to avoid genetic derivation or sanitary problems, **preservation at gamete- or embryo-stage is largely recommended**.

At the UMS006/CREFRE unit, we possess skills to manipulate mice and embryos **at any stage of development**, and at least, two microscopes equipped with micromanipulators are already in use for DNA injection into oocytes (standard additional transgenesis) and ES cells injection into blastocysts (mouse traditional knock-outs).



## Goals & Schedule

This seminar aims at providing a first training to manipulate mice embryos, and to perform autonomously additive transgenesis and cryopreservation experiments.

**This three days-training will essentially be devoted to practice:**

- Mice manipulation (hormonal induction, mating, plug observation)
- Embryo injection or freezing, and re-implantation in foster mothers
- *In vitro* fertilization after sperm recovery.

**Trainings on a 3-day basis are recommended**, however they could be organized on a 2-day basis to best suits your needs.

**Limited total number of participants: 10**

Sessions can be organized by groups of up to 4 attendants.



## About the CREFRE

The UMS006/CREFRE unit is a Inserm & Paul Sabatier University joint service unit which provides **state of the art platform services in zootechny**, in creating, producing and maintaining genetically modified rodents as well as leading *in vivo* experimental protocols. Dedicated to high quality as well as ethics, **CREFRE has obtained ISO 9001 v 2008 for its standardized processes**.

To know more (link)



## Interested?

To organize your training, please contact  
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Cc [refbio-toulouse@inserm.fr](mailto:refbio-toulouse@inserm.fr)

**Trainings will be held from 3<sup>rd</sup> Feb. to 31<sup>st</sup> March 2015**

Bookings at least 15 days before arrival so that we can provide you with all consumables