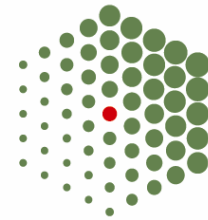


INNOVATION WORKS

- Technology from the European Molecular Biology Laboratory



EMBLEM
TECHNOLOGY TRANSFER

Transgenic mouse service

- *Cost-effective expert services in genetic modification of mice*
- *Transgenic mice, knock-in/out, rederivation and cryopreservation*

EMBLEM Reference 392

Summary

The EMBL Transgenic Core Services in the Mouse Biology Unit at the Monterotondo Outstation offers biologists an affordable opportunity to expand their research into mouse models. ETCS provides the expertise and capacity to produce genetically modified cells and animals for EMBL members and the European scientific community.

Provided services

ETCS services

I. Transgenic mice production

Microinjection of foreign DNA or lentiviral vectors into fertilized oocytes of inbred or hybrid mouse strains.

- Transgenesis by DNA injection
- Transgenesis by BAC and YAC injection
- Transgenesis by Lentivirus injection

II. Conventional or conditional knock-out or knock-in mouse production

Microinjection or morula aggregation of genetically modified ES cells using blastocysts of different mouse strains.

- Electroporation of ES cells with targeting vector

- Screening of selected clones
- Blastocyst injection of targeted ES cells
- Production of chimeric embryos by morula aggregation

Rederivation services

Rederivation by embryo transfer is the safest technique to obtain healthy mice from any contaminated mouse colony in order to introduce them in a clean or SPF facility.

Cryopreservation services

Cryopreservation is one of the most reliable techniques to maintain genetically modified mouse strains. Cryopreservation of two cell and eight cell embryos, morulas and sperm is available.

Key scientist

Dr. José Gonzalez, European Molecular Biology Laboratory (EMBL), Monterotondo, Italy

Contact

EMBLEM Technology Transfer GmbH

Tel: +49 6221 363 22 10

Fax: +49 6221 363 22 29

e-mail: info@embl-em.de