

Medizinische Universität Wien
Core Facility Labortierzucht und -haltung (CFL)

Assisted Reproduction Unit HIMBERG

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Why Assisted Reproduction?

Laboratory Animal Models without Pathogens

- animal welfare
- good scientific data vs bad science



SOPF Facility – Pathogen Free Environment - HIMBERG

How to get SOPF strains?

Infected “dirty” strains



Assisted Reproduction



SOPF “clean” strains

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Sanierung – Natural mating



Invitro Fertilization



Embryo Transfer



Embryo Production **CLEAN**



Strain Archives

Preparation for Embryo Transfer



Clean embryos prepared at 2-cell stage (24hrs)



1) Females synchronized
Estrous stage

FOSTERS
SOPF

3) Oviduct ampula
Female receptive
8:00-15:00 hrs

next day

4) Embryos transfer

20 days

5) Carry embryos to term
Care for pups

2) Plugging of females
14:00-15:00 hrs +

6) Pups weaned 20 days post
Foster mother Anlab tested

VASECTOMIZED
MALES
SOPF

SOPF

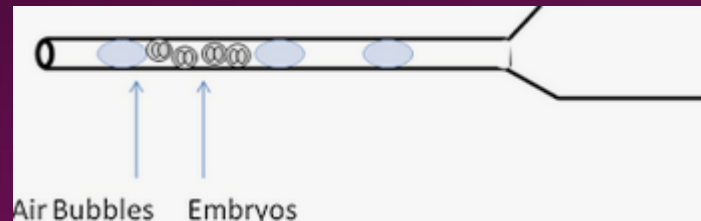
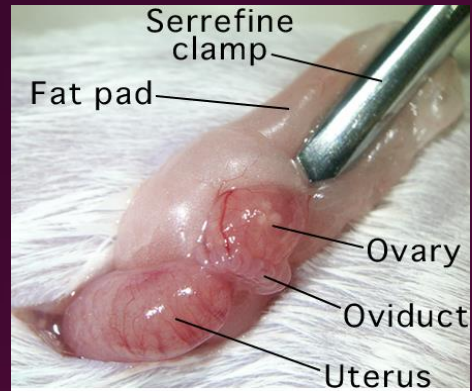


Surgical Embryo Transfer

Anesthesia and pain control

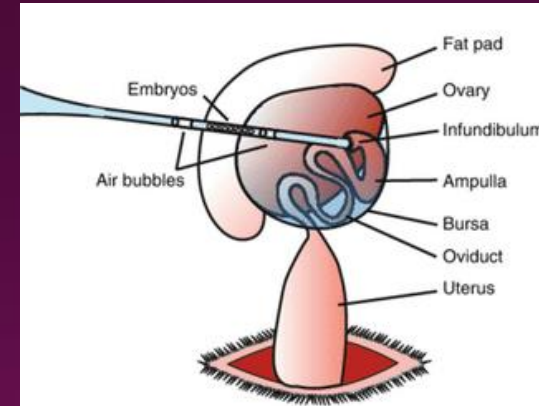


Opening of peritoneum
Exposing oviduct, ovary, uterus

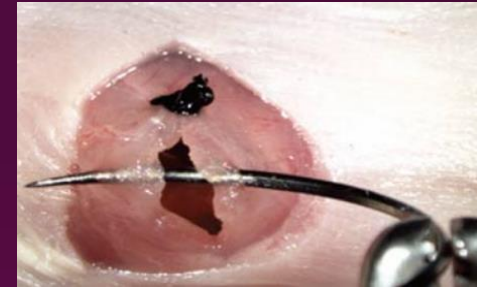


Loading of embryos:
10-15 per transfer

Insertion of embryos
to ampulla



Closing of peritoneum
and skin



Post Surgery Aftercare

Recovery and Stress Control

- Nursing Food
- Sunflower seeds
- Water
- Controlled cage environment



- Nesting materials
- Housing
- Low human interference
- No overcleaning



Thank You

