

## **Rederivation via IVF**

### Core Responsibilities

For rederivations via IVF the core will superovulate 3-4 week old C57BL/6 females. If female mice of an alternate strain are required please contact Andrei Golovko ([agolovko@tigm.org](mailto:agolovko@tigm.org)). The core may have to receive IACUC approval to order female mice of that particular strain. There will also be an additional charge to purchase the alternate strain. The core will isolate oocytes from the superovulated females, perform IVF and transfer them to recipient females. The core will notify the investigator when pups are born and schedule transfer of the mice to the investigator's colony after weaning and following serology testing of recipient mothers.

### Investigator Responsibilities

- **Veterinarian approval is required to import frozen sperm samples from another institution.**
- Fill out a rederivation request form
- Supply IACUC and Biosafety approval information
- Contact the core 3-4 weeks in advance to arrange a date for rederivation
- Provide the core with at least 2 straws each containing at least 40-50 ul of frozen sperm.
- Provide the core with a sperm cryopreservation protocol from the originating lab as well as the IFV protocol, if available.

If you have additional questions please contact Andrei Golovko.

### Timeline

Day 1: PMSG superovulation of B6 females

Day 3: hCG superovulation of B6 females

Day 4: Isolate oocytes aseptically. Perform IVF according to Jax protocol and culture oocytes overnight.

Day 5: Evaluate and transfer 2-cell embryos to recipient females

Day 24: Pups born

Day 45: Pups weaned

Day 52-55: Mice transferred to the investigator after serology testing