

**Mouse Rederivation Request Form**  
**Mouse Genetics Core Facility**  
**Cedars-Sinai Medical Center**  
**Core Director: Makoto Katsumata, PhD**  
**310-248-6523 (x86523), Davis Building 2067**

Request #: \_\_\_\_\_ - \_\_\_\_\_ Core use only  Date: \_\_\_\_\_ (please submit this form for each mutant line)

Principal Investigator: \_\_\_\_\_ Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

Office location: \_\_\_\_\_ Lab Location: \_\_\_\_\_

Contact person (if not PI): \_\_\_\_\_ Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

Account (project #): \_\_\_\_\_ Account (activity #): \_\_\_\_\_ Account administrator: \_\_\_\_\_

IACUC Protocol #: \_\_\_\_\_ Approved?  Yes  No Expiration Date: \_\_\_\_\_

Protocol title: \_\_\_\_\_

**Background of your mutant strain**

Reason:  Infection (pathogen[s] \_\_\_\_\_)  Poor breeder  Importing  Cryorecovery

Source of the mice:  Internal Room #: \_\_\_\_\_  External: \_\_\_\_\_  
(Consult with Comparative Medicine for quarantine, and Materials Transfer Office for MTA issues)

Form of internal/external mouse line:  Live mice  Frozen embryos  Frozen sperm  Frozen ES cells

Natural mutant  Transgenic  Knockout (Knock in)  Homozygote  Hetero(hemi)zygote

Nature of the mutation (lethal if homozygous, etc.): \_\_\_\_\_

Reference paper (if any): \_\_\_\_\_

Is the line hetero(hemi)zygous or homozygous?  Does the line need to be rederived as homozygous?  No  Yes

Your heterozygous male breeder(s) will be crossed with wild type egg donors. Resulting pup from rederivation will be half heterozygous and half wild type.	Your homozygous male breeder(s) will be crossed with wild type egg donors. Resulting pups from rederivation will be all heterozygous.	Please provide ~10 egg donors between 3~4 wks or >8 wks of age and 1~5 or more proven male breeders (1~2 egg donors/male breeder). If you are in a hurry or troubled with poor breeders, heterozygous rederivation may be the only option.
--	---	--

Rederivation can be performed by *in vitro* fertilization with a user-provided sperm donor and wild type egg donors

Name of your mutant line	Male/ Female?	Homo/ Hetero?	How many?	Age range (wks)	Proven breeder?	Genetic background (C57BL/6, FVB, etc.)	Preferred strain for egg donors

If you provide egg donors from your own stock, total cost could be significantly reduced. However, egg donors need to be between 3-4 weeks or more than 8 weeks of age. Egg donors between 4-8 weeks of age would not produce enough eggs upon hormone injection. Currently, reestablishing a mutant line from fresh or cryopreserved sperm is still challenging, but intracytoplasmic sperm injection (ICSI) can be performed with additional costs if IVF is problematic. The core would like to know how many males and females are available for production of fertilized eggs for embryo transfer. Please note that all egg donors and sperm donors will be sacrificed.

Please contact core director to discuss rederivation procedures for individual situations.

**Core use only**

Wt egg donors	Options	Own egg donors	Mixed embryos	
---------------	---------	----------------	---------------	--