Mouse Genetics Shared Research Facility
Sperm Cryopreservation (or IVF Recovery) Request Form

Complete Sections I and II or III only.

I. INVESTIGATOR INFORMATION.

Principal Investigator _____ Date _____
Contact Person _____ Phone _____
Department _____ Email _____
Fund # _____GCO # _____ Fax _____

Assurances. I am aware of the current charges assessed by the Mouse Genetics Shared Research Facility for the services requested below.

Principal Investigator _____ Date _____

II. SPERM CRYOPRESERVATION INFORMATION.

please submit a separate form for each line to be cryopreserved

Mouse line name _____
Genetic background of line _____
Location of line to be cryopreserved _____

The date of birth, animal identification number, and genotype (wild-type, heterozygote, homozygote, etc.) must also be provided with each animal submitted. Males used for cryopreservation of a mouse line must be between 3-10 months of age.

☐ **Basic Sperm Cryopreservation**.
Sperm will be isolated and cryopreserved from a single, genotyped male. Ten tubes will be prepared and stored in liquid nitrogen. Other than visual observation of sperm density and motility, no further assessments will be made of the viability of the cryopreserved sperm. **This level of service should be used for mouse lines which are not part of an active research program, and which will most likely not need to be recovered at some point in the future.**

☐ **Sperm Cryopreservation Plus**.
Sperm will be isolated and cryopreserved from a single, genotyped male. Ten tubes will be prepared and stored in liquid nitrogen. In addition to visual observation of sperm density and motility, *in vitro* fertilization (IVF) of wild-type eggs (using 1-2 vials of the frozen sperm) will be performed to assess the viability of the frozen sperm. It is important to note that the eggs used for this IVF are derived from F1 hybrid lines. Attempts to recover lines in the future using eggs from inbred strains may yield very different IVF efficiencies. **This level of service should be used for mouse lines which are part of an active research program, or which are likely to be recovered at some point in the future. Investigators should be certain that the sperm frozen from an important line is capable of fertilizing eggs before they substantially reduce or eliminate the line.**

III. IVF/RECOVERY OF A CRYOPRESERVED LINE.

Line to be recovered_____
Date frozen (if known)_____
Background strain to be used for IVF_____

IV. SHARED RESEARCH FACILITY USE ONLY.

Date Submitted _____ # of pups at weaning _____
Procedure Date _____
Total billed $_____ Date bill submitted _____