Mouse Genetics and Gene Targeting Shared Resource 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. ☐ Line Produced by Mount Sinai MGGT SRF

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.

☐ 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 important mouse lines which are part of an active research program, or which are likely to be recovered frequently 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. ☐ NO BILLING (MGGT produced line)

Date Submitted ______________________ # of pups at weaning ____________
Procedure Date ________________________
Total billed $ ______________________ Date bill submitted ______________________