

Disaster Planning & The Importance of Cryopreservation

Are Your Mice Safe From Floods & Other Disasters?

The recent flooding in the Midwest is a reminder that institutions performing animal research must be prepared for a variety of unexpected crises, including:

- Disease outbreaks
- Breeding cessation
- Equipment failures
- Genetic contamination
- Personnel & security issues

Recovery from such events can take weeks, months or even years. The Jackson Laboratory understands how strong institutional preparedness can help mitigate the effects of unexpected events. JAX® Cryopreservation and Recovery Services can help ensure the rapid and complete recovery of valuable mouse colonies should disaster strike.



Protect Your Investments

- It can take six to 18 months to develop and phenotype a genetically modified strain
- The cost to develop a genetically engineered mouse strain can exceed **\$100,000**
- The annual cost to breed and care for a genetically engineered strain typically exceeds **\$6,000**
- The time investments and scientific research findings that hinge upon the availability of these precious animals are **immeasurable**

“It is a major setback that reagents are lost, but the significant loss is time — all the work that will have to be repeated. Many of us collaborate with researchers everywhere. The impact of this will be worldwide.”

~ Huda Zoghbi, Geneticist, Baylor College of Medicine
(following the loss of an estimated \$7.4 million in research animals due to tropical storm Allison in 2001)

Insure The Safety Of Your Mouse Colonies!

Contact Us Today



Phone: 1-800-422-6423 or 1-207-288-5845

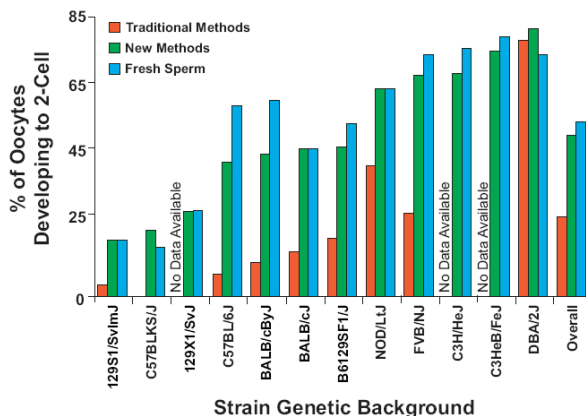
Email: jaxservices@jax.org

Web: www.jax.org/jaxmice/services/cryopreservation-and-recovery

Sperm Cryopreservation & Recovery

Our sperm cryopreservation and recovery service is a reliable and cost-effective method of protecting your strains. Should a disaster occur, single-age specific pathogen-free (SPF) mice can be readily produced to restock your facilities. The price to cryopreserve sperm of most strains is \$1,800 and includes three years of storage. Through rapid and reliable sperm recovery, this service permits the efficient distribution of your strains to other investigators as frozen embryos or SPF live mice. For strains not under active study, sperm cryopreservation yields a payback of less than half a year and frees up space to perform other research.

New Sperm Cryopreservation Methods Across Inbred Mouse Strains



Sperm Cryopreservation Teams Can Come to You



We can deploy teams of reproductive specialists to your facility to quickly cryopreserve large numbers of strains. This service is ideally suited for institutions or investigators with large rederivation projects or substantial backlogs of strains that need to be cryopreserved. We can routinely cryopreserve 120 strains or more on site in a week. You not only save the cost of shipping the mice to us but also get a lower per strain price due to operational savings we pass on to you!

Embryo Cryopreservation & Recovery

Although Sperm Cryopreservation works with most mouse strains, embryo cryopreservation remains the preferred method for the preservation of strains with multiple knockouts or transgenes. The cost for this service varies depending on strain background, fertility, and the number of mice provided. Live mice can rapidly be recovered from your frozen embryos. Five years of storage are included with each strain.

Expertise You Can Count On

The Jackson Laboratory is a pioneer in cryopreservation. For over 30 years our researchers have used cryopreservation to cost-effectively manage and protect large numbers of valuable strains from catastrophic loss. Our Reproductive Sciences Group:

- Has cryopreserved more than 6,500 strains
- Manages over three million cryopreserved embryos stored in multiple locations
- Performs approximately 1,000 recoveries of cryopreserved germplasm annually
- Transfers more than 12,000 embryos annually

Our cryopreservation processes are strictly monitored and multiple redundant systems are in place to safeguard our liquid nitrogen storage tanks. We divide samples among multiple tanks in two geographically separate locations, and all tanks have continuous tank monitoring, auto-fill, and alarm systems.

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