

# Services

---

## PKPD

Validate your study with our disease models, complete with data and reports.

- In-vivo PK Study Models
  1. Oral / IV / IP PK Study (Mice & Rat)
  2. Bioanalysis of small molecule using LCMSMS
- Oncology Models
  1. Syngenic Mouse Models
  2. Subcutaneous Xenograph Models
  3. Orthotopic Mouse Models
  4. Metastatic Mouse Models
  5. Patient Derived Xenographs (PDX) Models
  6. Mixeno Models for Immunotherapeutic Agents
- Metabolic Disease Models
  1. Streptozotocin (STZ) induced T1DM Model
  2. STZ-Neonatal and STZ-Nicotinamide model for T2M
  3. HFD DIO Model
  4. Db/Db and Ob/Ob Mouse Model
- Fibrosis Models
  1. Bleomycin Induced Pulmonary Fibrosis Model
  2. Liver Fibrosis induction using STAM Model
  3. Bile Duct Ligation Induced Liver Fibrosis Model
  4. MCD Diet-induced Liver Fibrosis Model
- Respiratory Disease Models (Asthma & COPD)
  1. Ovalbumin induced asthma model
  2. House Dust Mice (HDM) induced asthma model
  3. Cockroach Extract (CE) induced asthma model
  4. LPS inflammatory model
  5. Cigarette Smoke induced COPD model
  6. Asthma & COPD Exacerbation Models
- Auto Immune Disease Models
  1. Mouse Collagen Induced Arthritis (CIA) Model
  2. Rat Collagen Induced Arthritis (CIA) Model
  3. Mouse Adjuvant Induced Arthritis Model
  4. Rat Adjuvant Induced Arthritis Model
  5. IMQ Induced Psoriatic Model
  6. Inflammatory Colitis Models
  7. Experimental Autoimmune Encephalomyelitis Model for Multiple Sclerosis

## GENOME EDITING

Generation of genetically modified mice using various techniques.



### Types

- Transgenic mouse
- Conditional Knock-in mice
- Conditional knock-out mice

### Methods

- Electroporation
- Pronuclear injection
- Embryonic Stem Cell Injection

## REPRODUCTIVE SERVICES

We provide storage of mouse lines by freezing sperms, embryos and aid with rederivation.

- Cryopreservation

1. Sperm freezing

One of the issues with sperm freezing is the quality of the sperm. Included in our sperm freezing service is a quality check before and after freezing. A detailed report will be given to you once we have completed the freezing.

Deliverables:

- Pre-thaw sperm count
- Pre-thaw sperm viability (%)
- Sperm motility
- Pre-thaw sperm pictures & videos
  
- Post-thaw sperm count
- Post-thaw sperm viability
- Post-thaw sperm pictures & videos

2. Embryo freezing

Embryos can be frozen down and later rederived to revive your mouse colony.

- Rederivation

Revival of rodent strains from fresh and frozen germ cells.

Contact us for more information.



- Genotyping

1. Identification of cage

A member of our team will be sent to retrieve your mice samples.

2. Clipping of mice for identification

Mice will be clipped accordingly to identify between mice of the same cage.

3. Perform genotyping

4. Submission of report

Upon completion of the service, we will provide you with a detailed report of your mice.



SpERMA

**S**permatozoa & **E**mbryo **R**epository of **M**odified **A**nimals.

Contact us for more information.