**Appendix 5 – Breeding of Animals**

*YOU ARE REQUIRED TO KEEP ACCURATE RECORDS OF THE NUMBER OF ANIMALS PRODUCED AND THEIR ULTIMATE DISPOSITION. Breeding reports are due monthly. All animals born, whether of desired genotype or not, are considered to be “used” on the breeding report.*

1. **Person Responsible for Submitting Monthly Breeding Reports**

Name:

Email:

1. **Justification for Breeding**

Animals are not commercially available

*In utero* studies

Reproduction studies

Other

1. **Interbreeding and/ or Crossbreeding**

Will different strains of transgenic/knockout animals be interbred or crossbred?  Yes  No

*Note: If YES, then further review by the Recombinant DNA Committee may be required.*

1. Breeding Scheme

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Strain 1** | **Strain 2** | **Desired offspring genotype** | **# Anticipated to be born-desired genotype** | **Additional offspring (*e.g. undesired genotype*)** | **# Anticipated to be born -additional offspring** |
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For especially complicated breeding schemes, describe additional details here if needed.

1. **Disposition of surplus animals?**

Euthanize

Transfer to another protocol

Other:

1. **Genotyping**

Indicate methods used to genotype offspring (*check all that apply*)

**Tail biopsy**

Biopsies limited to mice <21 days old (no anesthesia or analgesia required)

Biopsies taken from mice > 21 days old (requires anesthesia/analgesia and a *Search for Alternatives to this painful and/or Distressful Procedures).*

Specify Anesthesia/analgesia to be used:

**Toe Clip**

Biopsies limited to mice <7 days old (no anesthesia or analgesia required)

Biopsies taken from mice > 7 days old (requires anesthesia/analgesia and a *Search for Alternatives to this painful and/or Distressful Procedures).*

Specify Anesthesia/analgesia to be used:

**Other Tissue**

Specify tissue to be biopsied and/or used for genotype determination:

Specify Anesthesia/analgesia to be used:

1. **Pregnant Females**

Will this protocol involve the purchase and/or use of pregnant females?  Yes  No

*If Yes:*

a. Will fetuses be manipulated in utero?  Yes  No

b. Will the dams be allowed to give birth to live pups?  Yes  No

Genetically Modified Animal Breeding Programs

*All mice and rats entering the Regis College animal facilities from a noncommercial source (such as an academic institution) will be quarantined for a minimum of 60 days before being released for project use. Regis College and the IACUC highly recommends that novel or unique rodent stocks or strains that are not commercially available have a fail-save system in place, such as cryopreservation of gametes or housing at an additional off-site contract location (Charles River, Jackson Laboratories) in the case of a catastrophic event.*

1. DNA/Transgene or Gene to be Altered.

a. Specify DNA/Transgene or Gene to be Altered:

b. Specify extent of gene disruption

Global disruption

Tissue/organ specific

Specify tissue/organ affected:

c. Method of monitoring presence of transgene

Genotyping

Other

Specify other method of monitoring transgene:

2. Anticipated Consequences of Gene Disruption

List any anticipated functional (phenotypic) consequences of genetic manipulation that may adversely affect the animals (e.g. alter mobility, cause pain or distress, affect eating and drinking, etc.). Note: The PI is responsible for notifying the IACUC of any significant phenotypic consequences that were not anticipated and described *a priori.*

3. Special Care and/or Monitoring

Describe any special care or monitoring that may be required