

**BROWN UNIVERSITY**

**Institutional Animal Care and Use Committee**

**Appendix #4 – Breeding of Animals**

|  |  |
| --- | --- |
| **Principal Investigator Name:** |       |
| **Project Title:** |       |
| **Emergency Contact Information:** | Name:       Telephone Number:       |

YOU ARE REQUIRED TO KEEP ACCURATE RECORDS OF THE NUMBER OF ANIMALS PRODUCED AND THEIR ULTIMATE DISPOSITION. Breeding reports are due quarterly. All animals born, whether of desired genotype or not, are considered to be “used” on the breeding report. Please see the [IACUC Guidelines for Counting Animals Used in Research & Justification for Animal Numbers](https://www.brown.edu/research/conducting-research-brown/preparing-proposal/research-integrity/iacuc-home-page/policies-useful-links-related-forms) for more information.

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, further review by the Institutional Biosafety 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*)** | **Total number generated** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

For especially complicated breeding schemes, describe additional details here if needed.

1. **Disposition of surplus animals?**

[ ]  Donate to ACF

[ ]  Euthanize

[ ]  Transfer to another protocol

[ ]  Other:

1. **Genotyping**

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

[ ]  **Tail biopsy** *(*see Brown’s [Rodent Genotyping Policy](https://www.brown.edu/research/sites/research/files/Rodent%20Genotyping%20Policy_1.pdf)*).*

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

[ ]  Biopsies taken from mice > 21 days old (requires anesthesia).

Specify Anesthesia/analgesia to be used:

[ ]  **Toe Clip** (see Brown’s [Rodent Identification Policy](https://www.brown.edu/research/sites/research/files/Rodent%20Identification%20Policy.pdf)).

[ ]  Biopsies limited to mice <10 days old (no anesthesia or analgesia required)

[ ]  Biopsies taken from mice > 10 days old (requires anesthesia).

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 Brown Animal Care facilities from a noncommercial source (such as an academic institution) must be quarantined and tested or rederived before being released for project use. Animal Care and the IACUC highly recommend 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