**Colony Establishment Certification**

I confirm that these animals are not available from commercial vendors in the numbers or on the schedule required for the proposed research.

I confirm that all animals brought to UMB from any source will be coordinated through Veterinary Resources to assure that proper health records are obtained, reviewed and approved before animal shipment.

1. **Colony Identification – Adult Breeders & Offspring Generated**

On the chart below, indicate the number of breeders required, and provide estimates for the numbers of offspring expected and the anticipated disposition of those offspring, by strain, transgene, KO or KI. *Protocols have a life span of 3 years, list numbers anticipated over a 3 year period.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Colony Designation** (strain / transgene / KO / KI) | **Adult Breeders**  (strain x strain) | **# of male breeders required** | **# of female breeders required** | **Expected total # of offspring generated**  Sum of columns a+b+c | **# Offspring needed for experiments**  Column A | **Approximate # offspring deemed unusable**  Column B | **Approximate # offspring used to replace breeders**  Column C |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

*\*\*Please add rows to this table by placing cursor at end of last row and clicking return.*

1. **Briefly describe why offspring may be deemed unusable:** Click here to enter text.
2. **Breeding Plan(s): What is the age range during which the animals will be bred?** Click here to enter text.
   1. **Breeding Scheme: (check all the apply)**

Monogamous (one male and one female per cage)

Trio (one male and two females per cage)\*

Polygamous (one male and more than two females per cage)\*

\*If Trio or Polygamous breeding is proposed, please consult a VR Veterinarian and provide justification for using this breeding scheme.

Click here to enter text.

**VR Veterinarian consulted**: Click or tap here to enter text.

**Date of Consult**: Click or tap to enter a date.

* 1. **Breeding Management: To prevent overcrowding or welfare concerns.**

I confirm that breeding colonies will be monitored at least three times a week (M, W, F) to ensure animal wellbeing and adherence to the [VR Policy on Cage Population Densities for Rodents](https://www.umaryland.edu/media/umb/oaa/oac/oawa/guidelines/animal-care-program/VR-Cage-Population-Densities-for-Rodents_09.2021_IACUC-Approved.pdf)

[VR breeding cage cards](https://www.umaryland.edu/media/umb/oaa/oac/oawa/guidelines/animal-care-program/CM-Cage-Cards-ID-Guide_11.2019.pdf) will be used at the cage level and accurately completed in a timely manner.

1. **Please indicate at what age animals will be weaned.**  21 days (*standard*)  Delayed weaning (*justify below*)

*For delayed weaning, please specify at what age animals will be weaned and provide justification for that request. Please contact Veterinary Resources for assistance as needed.*

Click here to enter text.

1. Will animals be genotyped or phenotyped?  YES\*\*  NO

\*\**If yes, state and describe the* [*method(s)*](https://www.umaryland.edu/media/umb/oaa/oac/oawa/guidelines/Rodent-Genotyping-Guidelines.pdf) *used.*

Click here to enter text.

1. Discuss whether the generated rodents experience any significant health problems associated with their genetic status, *e.g. immunodeficiency, muscloskeletal deficiencies, any problems associated with eating, drinking, metabolism which requires special needs or results in pain or distress*. Please discuss the severity of symptoms expected in these animals, if any. What measures will be used to assess the symptoms and relief from pain and/or distress, if necessary. Please assure the IACUC that all moribund animals will be euthanized.

Click here to enter text.

1. Please specify criteria to be used to determine whether early euthanasia of *breeder animals* is warranted. *Please refer to the list of humane experimental endpoints in the* [*Endpoint Guidelines*](https://www.umaryland.edu/media/umb/oaa/oac/oawa/guidelines/Endpoint-Guidelines.pdf) *available on the OAWA website.*

Click here to enter text.

1. **Please indicate fate of retire breeders.**  Euthanized  Used experimentally  Other (*describe*):
2. **Please indicate fate of unusable offspring.**  Euthanized  Other (*describe*):
3. **The NIH Guidelines for Research Involving Recombinant DNA Molecules requires that the Institutional Biosafety Committee review and approve experiments involving the generation of rodents in which the animal’s genome has been altered by stable introduction of recombinant DNA, or DNA derived therefrom, into the germ-line (transgenic animal).**

**Are two transgenic (or knockout) rodent strains being bred to create a new rodent strain?**

**YES\*\*  NO**

**Is a transgenic (or knockout) rodent strain being bred to a new background strain?**

**YES\*\*  NO**

**\*\*If yes, the following questions must be answered:**

1. **Does either parental rodent contains the following genetic modifications:**
2. **Incorporation of more than one-half of the genome of an exogenous eukaryotic virus from a single family of viruses?  
     YES\*\*\*      NO**
3. **Incorporation of a transgene that is under the control of a gammaretroviral long terminal repeat (LTR)?  
     YES\*\*\*      NO**

**2.    Is the transgenic rodent resulting from this breeding expected to contain more than one-half of an exogenous viral genome from a single family of viruses?  
  YES\*\*\*  NO**

**\*\*\*If yes to either 1 or 2 above, the following questions must be answered:**

1. **Describe the unique characteristics of the transgenic founder(s).**

Click here to enter text.

1. **Describe the expected unique characteristics of viable offspring.**

Click here to enter text.

1. **Indicate the type of confinement used to house these animals  
     ABSL1      ABSL2       ABSL3**
2. **Describe the precautions that will be taken (or procedures used) to minimize the possibility that animals could escape confinement.**

Click here to enter text.

1. **Assume that progeny of the breeding pairs were to escape and mate with wild-type animals. Describe the potential consequences of this event upon the wild population of animals.**

Click here to enter text.