

BIOLOGICAL RESOURCES: Breeding Colonies

Before maintaining a breeding colony, you must have an IACUC-approved breeding protocol. For assistance with writing an IACUC protocol, contact **Danielle Miller**, IACUC/IBC Administrator, or the **Attending Veterinarian**.

Planning:

When planning a breeding colony, contact **Biological Resources** for guidance. We can assist with: breeding strategies, weaning litters, animal identification, tail-tipping, mouse log setup, expected phenotype(s), and projected colony size once established.

Requirements:

- Weaning must occur between 19–21 days of age, unless otherwise specified in the protocol.
- Tail-tipping must occur before 21 days of age.
- Cage Identification:
 - o All breeding cages must be clearly marked "BREEDING" on the cage card.
 - o A separate litter log card must be placed behind the cage card.
 - Trio or harem breeding is permitted in large cages if specified in the IACUC-approved protocol.
 - Small cages are only allowed for a single female with a single litter (± the male).
 - o If there is potential for two litters at once (e.g., trio/harem breeding or IACUC-approved delayed weaning), large cages are required.

Breeding Colony Management Options

Option 1: Investigator-Managed

The research staff listed in the IACUC-approved protocol are responsible for:

- Setting up breeding cages
- Tail-tipping
- Identifying pups
- Weaning pups
 - If animal care staff observe an overcrowded cage during AM or PM checks, a blue OVERCROWD acetate will be placed over the cage card. Research staff have 24 hours to correct the issue. After 24 hours, animal care staff will separate animals, and charges will be applied to the PI.
- Managing colony size

Option 2: Managed by Biological Resources

A supervisor or Licensed Veterinary Technician (LVT) will be assigned to your colony and will provide the following services as part of the **breeding-colony per diem rate** (150% of the standard per diem rate for cages containing breeding pairs or trios):

- Breeding cage setup
- Daily litter monitoring
- Weaning, tail-tipping, and ear punch/tag identification
- Managing colony size
- Maintenance of a shared mouse log (accessible to the PI and research staff via Google Drive)