

ACUP ID number: HM-72		
Approval date:	01/2024	GPS
Written by:	**	C. Moats
Revision by:	Jan 2024	**
(numbered		
accordingly)		
Distribution		RAR

HM – 72: Rodent Enrichment Program

Performance Goals:

To describe the enrichment program for mice and rats housed in Johns Hopkins University.

Definitions:

JHU-Johns Hopkins University RAR-Research Animal Resources BMT-Behavioral Management Team

Scope:

This SOP applies to all employees of the JHU RAR and any other personnel working at JHU who distribute enrichment for mice and rats.

Background:

- All enrichment materials must be initially approved by the Director of Rodent Resources. Once approved, enrichment items are listed in this SOP.
- Only approved enrichment items, listed in this SOP, may be provisioned.
- If researchers request alternative enrichment items, they must be approved in the ACUC protocol.
- All rodent enrichment materials must be autoclavable; however, single use items may be sterilized in another fashion (ex. irradiated).

Procedures:

- A. Standard Enrichment Items
 - 1. All rat cages receive standard enrichment in the form of crinkled paper (ex. Enviro-Dri).
 - 2. All mouse cages receive standard enrichment in the form of a cotton nestlet square (ex. Nestlet).
- B. Social Housing
 - 1. Socialization is the default unless otherwise justified and approved in the ACUC protocol, or described in this policy. Where possible, mice and rats are housed in pairs or groups.
 - 2. Mice and rat racks are arranged in holding rooms in a manner that permits animals to have auditory, visual or olfactory contact with conspecifics.

- 3. Singly housed cages of mice and rats are flagged. Conditions for single housing, which are captured by flagging the cage with the appropriate sticker or cage card, are listed below:
 - a. "B" or Breeding (ex. stud males, pregnant females from harem)
 - b. "A" or Attrition (ex. other cage mates have died)
 - c. "E" or Experimental (ex. those approved in the ACUC protocol and captured in the SToP form)
 - d. "V" or Veterinary (ex. cases of fighting)
- 4. Singly housed mice and rats are provided additional enrichment, as described in Section C.

C. Additional Enrichment Items

- 1. Cages of singly housed mice and rats are flagged, as described in Section B.
- 2. Singly housed animals are provided with additional enrichment stocked by RAR, such as additional nesting material and/or an autoclavable plastic hut.
- 3. If the typical RAR-stocked enrichment items are not acceptable for the research protocol, other approved devices/materials, provisioned per PI request, may include:
 - a. Autoclavable nyla-bones, or similar commercially available chew toys approved by Director of Rodent Resources
 - b. Autoclavable huts, igloos, tubes, and/or tunnels made of polycarbonate (or similar high grade autoclavable plastic polymer)
 - c. Sterile (ex. irradiated) single use paper huts, igloos, tubes and/or tunnels
- 4. Stocking, restocking, provisioning, and sterilizing items not stocked by RAR (ex. items listed in Section C, Subsections a. through c.) is the responsibility of the investigator, not RAR.
- D. Enrichment Item Sanitization Schedule and Cage Change Outs
 - 1. Replace all enrichment devices with new sterilized device at each cage change out.
 - 2. At cage change out, some nesting material should be transferred from the old cage to the new cage preserve scent marking.
 - 3. Check all enrichment devices during change outs to ensure that they are free of sharp edges, defects, cracks, or other evidence of diminished integrity. Dispose of and replace with a similar device if such evidence is found.

I acknowledge that I have read and understand the JHU Animal Care and Use Program document "Rodent Enrichment Program Program" and I will follow this procedure. I agree to bring any deviations in this procedure to the attention of my supervisor/GPS Working Group.

Name (Print)	Date	
Signature		