SOP #: 403.03



Title:	SOP -	Animal Transportation			
Approvals:					
Attending Veterinarian		fin	Date:	10/18/22	
		V			

1. Purpose

- 1.1 Transportation from one location to another can be stressful to laboratory animals and can increase the potential for disease transmission or injury. The Guide states "all transportation of animals, including intra-institutional transportation, should be planned to minimize transit time and the risk of zoonoses, protect against exposure to environmental extremes, avoid overcrowding, provide food and water when indicated, and protect against physical trauma. Some transportation-related stress is inevitable, but it can be minimized by attention to those factors."
- 1.2 The purpose of this SOP is to:
 - 1.2.1 Provide guidance on how to safely and effectively transport laboratory rodents.
 - 1.2.2 Define the minimum requirements for the transportation and relocation of laboratory animals consistent with the Guide for the Care and Use of Laboratory Animals.
- 2. Responsibility
 - 2.1 ACF Personnel
- 3. Definitions
 - 3.1 ACF Animal Care Facility
 - 3.2 Guide Guide for the Care and Use of Laboratory Animals.
 - 3.3 ACUP Animal Care and Use Protocol.

- 3.4 Approved research laboratory Lab listed in the approved in ACUPs where animal manipulations are performed.
- 3.5 PPE Personal Protective Equipment (e.g. gloves, lab coat/gown, shoe covers, hair bonnet, safety goggles).
- 3.6 SPF Specific Pathogen Free.
- 3.7 EH&S Environmental Health and Safety.
- 3.8 OHP Occupational Health and Safety Program.
- 3.9 IBC Institutional Biosafety Committee.
- 3.10 rDNA Recombinant DNA.

4. Guidelines

- 4.1 To ensure that regulations and concerns are addressed regarding animal transport, the Animal Care Facility at Florida International University has established the following general guidelines:
 - 4.1.1 All methods of transporting animals must provide for the health and welfare of animals.
 - 4.1.2 Animals may be moved by the investigator or personnel listed on the approved Animal Care and Use Protocol (ACUP) from an animal housing room in the ACF facilities to an approved research laboratory on the FIU campus.
 - 4.1.3 Unless specific IACUC approval has been granted and written in the approved ACUP, rodents of the genus Mus and Rattus cannot be housed outside their animal holding rooms for longer than 24 hours. Any other rodents and warm-blooded mammals may not be housed outside their animal holding rooms for longer than 12 hours.
 - 4.1.4 Transportation of animals must be done in a direct and timely manner, avoiding public areas as much as possible. In selecting the route, care should be taken to utilize the least congested areas and to avoid human areas (non-lab areas), whenever possible.
 - 4.1.5 In the case of the AHC4 vivarium, the freight elevator should be utilized in the movement of animals between floors. Passenger elevators should not be used unless the freight elevators are not functional because of the exposure of non-research personnel to animal allergens and potential biohazards associated with laboratory animals.
 - 4.1.6 Animals must not be transported with any other animal, substance, or device that may potentially cause injury to the animal being transported.

- 4.1.7 ACF provides JAX or Taconic transport cages. Enclosures containing animals must be secured and carefully handled. The enclosures must be maintained in a manner that will prevent them from tipping or falling and must be handled in a manner that will minimize any physical trauma or distress to the animals.
- 4.1.8 Temperature extremes must be avoided when animals are transported. While the caging will insulate animals, exposure to extreme ambient temperatures can have adverse effects. When temperatures fall below 40°F (4.4°C) or above 85°F (29.4°C), special precautions (in addition to the environmentally controlled vehicles used for transportation) may need to be taken.
- 4.1.9 Transportation of animals must also comply with the applicable local and state laws regulations.
- 4.2 Rodent Cage Preparation and Transportation to Labs
 - 4.2.1 The preferred method for transporting rodents is by using a transport cage provided by ACF.
 - 4.2.2 Provide food and a source of water when rodents will be held within the transport container for longer than 6 hours.
 - 4.2.3 Provide adequate ventilation (note: stacking rodent cages does not provide adequate ventilation).
 - 4.2.4 The animal's cage card must accompany the animal throughout the transportation, unless it is taken to the lab for terminal procedures, in which case the cage card is handed to the facility for processing. Secure cage card holder or other ID to the cage(s) (e.g. if needed tape card holder to cage or only top edge of cards to card holder if needed so card information is not damaged upon tape removal!).
 - 4.2.5 Cover cage with a non-transparent/non-translucid cloth bag or gown. Animals must never be viewable to the public during transportation.
 - 4.2.6 Transfer cage(s) in one of two ways.
 - 4.2.6.1 Clean transportation cart (preferred method).
 - 4.2.6.1.1 Do not double stack cages on the cart to prevent tipping/falling.
 - 4.2.6.2 Hand-carry.
 - 4.2.6.2.1 Only one cage should be carried by hand.
 - 4.2.6.2.2 Stairs should be avoided to prevent falls or drops with cages.

- 4.2.7 Remove cloth wrap IMMEDIATELY upon arrival at the lab to ensure proper ventilation.
- 4.3 Transportation of Animals between Campuses
 - 4.3.1 Transportation of animals to and from the Main Campus (MMC), to satellite locations must be performed in an environmentally controlled vehicle. Movement of animals between facilities must be approved by the ACF Director.
 - 4.3.2 Cargo areas of vehicles used in the transportation of laboratory animals are sanitized to prevent contamination of future animal transportation. Sanitation is performed by designated staff.
 - 4.3.3 Scheduling transportation of animals should be done couple of days in advance by contacting the Director of ACF to schedule delivery.
- 4.4 Transporting Live or Dead animals Containing Radioactive Isotopes
 - 4.4.1 Investigators planning to transport live animals containing radioactive materials from one location to another must receive approval from the Radiation Safety Officer for procedures and approval.
 - 4.4.2 An approved IACUC and radiation safety protocol is required for the use of any amount of radio-active material in animals. Special transportation requirements must be addressed in such protocols and the ACUP with specific guidance and approval from the Radiation Safety Officer.
 - 4.4.3 Warning labels are required on enclosures used to transport live or dead animals that have been exposed to radioactive hazards. The specific hazard must be identified.
- 4.5 Transporting Animals Treated with Specific Pathogens (Human or Murine) and/or Carcinogenic Material
 - 4.5.1 The transportation of animals that are to be dosed at one location and moved to another needs to be particularly evaluated by the Institutional Biosafety Committee (IBC) and the IACUC to ascertain that proper containment is used to minimize occupational exposure to persons involved with the move, and to minimize environmental contamination.
 - 4.5.2 Small laboratory animals that have been exposed to human or murine pathogens, rDNA or toxic/carcinogenic substances and are actively shedding the hazardous material must be transported in closed systems. Transportation needs of exposed larger animals will have to be evaluated on a case-by-case basis by the University Veterinarian in consultation with EH&S and/or the corresponding committees.

- 4.5.3 Warning labels are required on enclosures used to transport live or dead animals that have been exposed to chemical or biological hazards. The specific hazard must be identified.
- 4.5.4 Cages that have animals inoculated with infectious or chemical hazards must be transferred to a clean transport cage within the room, while leaving the dirty cage within the animal holding room. If the cage, following transport, contains animals that may still pose a hazard, the transport cage should be labeled with the investigator's name and protocol number and returned to the original housing room with the hazard label contained as approved.
- 4.5.5 Carcasses of contaminated animals must be handled according to the guidelines of the FIU EH&S and approved by the IBC for handling medical pathological waste or for disposal as chemical waste, respectively. Contaminated animal carcasses that are being transported for pathological examination also need to be placed in double plastic bags (primary barrier) and then into a cardboard box (secondary barrier) and must be accompanied by a detailed history of the type and amount of hazardous material.

4.6 SPF Rodents

- 4.6.1 SPF rodents should always be transported in a JAX transport cage (with a filtered top). Upon return to a housing area, the rodents should be transferred to a new clean cage. The transport cage will be returned to the dirty side of the cage wash for processing.
- 4.7 Transporting Pigs between OE and AHC-4 buildings
 - 4.7.1 Transportation of pigs should be planned to minimize transit time, avoid the visibility of animals to the public, and protect the animals against physical trauma. *Use only service elevators*.
 - 4.7.2 The animal is sedated with a mix of Ketamine/Xylazine/Butorphanol, and at the onset of sedation moved into the transport cart and covered.
 - 4.7.3 The shortest route between the building will be used OE receiving dock to AHC4 receiving dock.

5. References

- 5.1 The Guide for the Care and Use of Laboratory Animals 8th Edition (NRC 2011)
- 6. Revision
 - 6.1 Rev 02 Updated the method of transportation between campuses

6.2 Rev 03 – Updated the method of transportation of Pigs between buildings in MMC campus and the PPE requirements.