Title: Procedure for Rodents Entering the Center for Molecular Imaging (CMI) area of Biomedical Science Research Building (BSRB) for Bioluminescent or Fluorescent Imaging

Author: Amanda Fair

Date: August 29, 2013

Version: 5

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A. PURPOSE: It is sometimes essential to transport animals within or between campus buildings in order to facilitate viable research. To provide for the integrity and well being of the animals being transported into the imaging facility, a system has been devised that will facilitate the research while minimizing the risk of spreading a contaminant. It is critical that research personnel follow the procedures described in the Guide for the Care and Use of Laboratory Animals regarding the transportation of animals in order to reduce any undue stress and risk of zoonoses to and from the animals. The following Standard Operating Procedure (SOP) outlines the steps required to maintain a sanitary imaging environment for the research animals.

B. PROCEDURES: Please follow all procedures in place regarding the proper sanitation of carts and wheels and the proper transport of animals. You can visit http://www.ulam.umich.edu/sops/AnimalTransport.pdf if you have any questions on these procedures. Should it become necessary to image animals harboring chemical hazards please contact Amanda Welton at awelton@umich.edu for further information. Please refer to the SOP “Procedure for Imaging Rodents with ABSL-2 Pathogens” for information regarding the use of ABSL-2-infected animals. The following guidelines have been devised to ensure the likelihood of a zoonotic pathogen being transferred between animals is minimized.

NOTE: ONCE ANIMALS HAVE BEEN IMAGED IN THE CMI FACILITY THEY CANNOT RETURN TO ANY ULAM GENERAL HOUSING ROOM. THEY MUST EITHER BE HOUSED IN THE CMI ANIMAL ROOM (D265) FOR THE DURATION OF THE EXPERIMENT OR THEY MUST BE EUTHANIZED.

Only in very rare cases will exceptions to this be allowed, following ULAM veterinarian approval. Please contact Amanda Fair at awelton@umich.edu for further information.
1. When animals come to the CMI facility for the first time they must be placed into clean caging prior to coming to BSRB CMI.

2. All personnel entering the imaging area are required to don a disposable gown, hair bonnet and gloves before entering the imaging room. The PPE will be located in front of the double doors as you enter the imaging facility.

3. Upon entering the CMI facility place the carts outside of the imaging room. The animals in the clean boxes should be brought into the imaging room and placed on the bench in the center of the room.

4. If imaging animals already housed within the CMI animal housing rooms please use the provided cart for transport. This cart is kept in the hallway to assist in the transfer of cages from the animal rooms to the imaging rooms. Please note that the transfer cart cannot enter either type of room. This cart should be sprayed down with disinfectant if it is used to move cages.

5. Prior to imaging, users are responsible for wiping down all induction boxes, preparation benches and the inside of the imaging chamber with provided Virex solution to minimize contamination risk to your animals.

6. The IVIS chamber should then be lined with a heavyweight, black stock paper (which we will provide) prior to placing the animals inside.

7. Please maintain MI technique as much as possible. Spray gloves and clean equipment with provided Virex solution in between animal cages to reduce the possibility of cross contamination.

8. After imaging is completed, the black paper should be disposed of and all areas that have come into contact with animals should be sprayed generously with Virex and allowed to sit for 10 minutes before wiping the areas clean. Please make sure that no animal wastes are present in the boxes.
9. If animals are returning to the CMI animal housing room (D265) then users must don a face mask to enter the animal room, in addition to the disposable gown, hair bonnet and gloves.

10. Discard of all PPE prior to leaving the imaging area.

11. If animals are to be euthanized following imaging then users must do so at the ULAM euthanasia station located on the dirty side of the cage wash area. Users must discard their imaging PPE and don new PPE once in the dirty side cage wash area. **NOTE: ANIMALS THAT ARE ABSL-2 CANNOT BE EUTHANIZED AT THIS STATION, THEY MUST BE EUTHANIZED WITHIN THE ANTEROOM OF THE CONTAINMENT AREA (ROOM D270).** Please refer to the SOP “Procedure for Imaging Rodents with ABSL-2 Pathogens” for further information.

12. Discard of all PPE prior to leaving the euthanasia station.

13. Bagged carcasses should be put in the carcass cooler (room D050).

14. All sharp objects such as scalpel blades, hypodermic needles, Pasteur pipettes and, contaminated broken glass etc. must always be disposed of in the approved "sharps bins". **USED NEEDLES MUST NOT BE RECAPPED AFTER USE.** The needle syringe assembly should be placed promptly in a sharps bin for disposal. Do not leave uncapped needles or sharps on surfaces. Please refer to the OSEH website and the "Guidance on the Use of Sharps" [http://www.oseh.umich.edu/sharps_guide.html](http://www.oseh.umich.edu/sharps_guide.html) for further information.

**NOTE:** Please contact ULAM if you have any questions regarding the transportation of animals or if you would like to set up an animal transfer from one area of campus to another.