# ANIMAL STANDARD OPERATING PROCEDURE

## Technetium-99m (\(^{99m}\text{Tc}\))

| Animal Safety Protocol designation | RS-1B  
|-----------------------------------|-----------------------------------  
| • Animal bedding and cages must be held for 10 half lives (60 hours) and surveyed before disposal.  
| • See investigator responsibilities below  

| Investigator Responsibility |  
|----------------------------|-------------------------------------------------  
| • Research staff must inform Animal Care staff ahead of time of agent that will be used, and arrangements will be made for isolation/quarantine housing of animals.  
| • Fresh micro-isolator caging will be used for the animals at the time of administration.  
| • **Radiation Sign** must be posted on the door of the room in which the animals will be housed while experiments are in progress.  
| • Cages will be labeled with a pink card with the following information:  
| 1. Name of agent delivered to animal  
| 2. Approximate dose  
| 3. Date of administration  
| 4. Date of bedding change  
| 5. Contact Information  
| • Animal husbandry performed by PI staff during period when isotope is present in animals until 10 half-lives.  
| • Cards and door signs must be removed by the researcher once the hazard is no longer present.  
| • Consult with the Radiation Safety Officer concerning shielding requirements.  

| Entry requirements |  
|-------------------|-----------------------------------------------------------------  
| • Access limited to PI staff and selected veterinary staff.  
| • All Personal Protective Equipment (PPE) gown, gloves, face mask, shoe covers and cap must be worn to enter animal room.  
| • Hands must be washed upon exiting animal room.  
| • Surgical mask, goggles, faceshield or use of a Biological Safety Cabinet (BSC) are required when conducting research.  

| Cage Change |  
|-------------|----------------------------------------------------------  
| • Animal waste and contaminated bedding shall be handled to minimize generation of dust and aerosols.  
| • Radioactive bedding and cages will be held in “red bags” and labeled with the isotope and start date and anticipated decay date.  
| • Once 10 half-lives is reached, survey the bag to verify that waste has decayed and dispose in medical waste bin and transfer cages to IAS staff.  

| Decontamination and Spill Procedure |  
|-------------------------------------|-------------------------------------------------------------------------------------------------  
| • Once transferred to IAS, cages will be sanitized by standard IAS practices  
| • In the event of a radioactive spill, the area will be immediately restricted and cleaned and surveyed by laboratory personnel.  
| • Equipment and work surfaces must be routinely cleaned with 10% freshly prepared bleach or appropriate disinfectant. All equipment must be decontaminated prior to leaving the animal room.  
