# ANIMAL STANDARD OPERATING PROCEDURE

**Fluorine-18 \(^{18}\text{F}\)**

| Animal Safety Protocol designation | • RS-1B  
• Animal bedding and cages must be held for 10 half lives \((19 \text{ hours})\) and surveyed before disposal.  
• See investigator responsibilities below |
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| 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. |