

**STANDARD OPERATING PROCEDURES**  
**DIVISION OF COMPARATIVE MEDICINE**  
**UNIVERSITY OF SOUTH FLORIDA**

SOP#: 415.7

Date Issued: 4/00

Date Revised: 7/22

Page 1 of PURPOSE:

**I. PURPOSE**

1. To outline the p  
exposed to hazard
2. To reduce the risk  
substances with

2. Access to rooms housing animals that have been administered hazardous test substances is **limited to essential personnel. Doors are kept closed** when experimental animals are present.
  
3. **Don required PPE.** A disposable gown, appropriate chemical resistant gloves (i.e., refer to SDS when available), and shoe covers must be worn when working with hazardous test substances, opening the cage of, or handling animals that have been administered the agent. Specific glove recommendations are as follows:
  - a. **DMSO – Incidental/minor contact** . Use nitrile gloves, 2 mm or thicker. Double glove if incidental contact is expected to be frequent (more than once or twice per use). Change glove or outer glove after known exposure or every 30 minutes.
  - b. **DMSO – Major contactor immersion**, use butyl rubber gloves.
  - c. **Formalin** - Use nitrile gloves.
  
4. As agents may have the potential to produce hazardous fumes, dust, or aerosols, cage changing is required to be performed in a manner ~~the~~ afterwards, ~~the~~ tihn

8. As potentially hazardous test substance administrations, procedures, surgeries, and tissue derivations have the potential to produce hazardous fumes, dust, or aerosols, these must be performed in either an ISO class 4 HEPA-filtered ventilated cage changing station, or a class II Type A2 biosafety cabinet or chemical fume hood, as appropriate for the procedure, while wearing PPE listed above in items III.4 & 5, or required by the protocol, in addition, Tyvek® sleeves, ensuring cuffs overlap are required.
9. Opening microisolators or handling animals that have been administered hazardous test substances that have the potential to produce hazardous fumes, dust, or aerosols must occur behind the glass shield of the ISO class 4 HEPA-filtered ventilated cage changing station, biosafety cabinet, or fume hood.
10. Work surfaces are cleaned and decontaminated before and after use.
11. All wastes from the animal room will be disposed of as hazardous waste when directed by Environmental Health and Safety.
12. In addition to PPE stipulated in SOP 1008, when working in cagewash with cages that housed animals administered hazardous test substance, an N95 respirator is recommended.

**Approved:**

**Date:**