Persons Responsible
All Painter Center users

Purpose
The Painter Center Biocontainment Entry/Exit Log is maintained to enhance facility security and personnel safety.

Safety Considerations
PRINCIPAL INVESTIGATORS (PI) ARE RESPONSIBLE FOR THE SAFETY AND TRAINING OF THEIR STAFF

Procedure
All personnel entering the Painter Center B-wing and/or D102 biocontainment barriers must sign in to the Painter Center Biocontainment Entry/Exit Log on every barrier entry and out on every barrier exit.

- The Log provides an accurate listing of all persons present in the biocontainment barriers and can be used to account for those persons in emergency situations.
- Archive Log pages for a minimum of six months.
- Guests or visitors must be escorted by either LAR personnel or experienced Investigator staff when entering LAR vivaria.
- Escorts are responsible for both the safety and actions of guests or visitors.
- Persons under the age of 14 years are not allowed entry into any LAR managed vivaria.

1. Enter the Painter Center (see LAR SOP #LGP 001 Painter Center Entry/Exit—Personnel).

2. Sign in to the Painter Center Biocontainment Entry/Exit Log Book at the LAR Reception Desk (see Appendix—Painter Center Biocontainment Entry/Exit Log). Enter the following information:

2.1 The date
2.2 Your name
2.3 Your Principle Investigator (PI)
2.4 The destination barrier
2.5 The “time in”

3. Enter the vivarium.

Proceed to and enter the desired biocontainment barrier (see LAR SOP #LGP 005 Painter Center Entry/Exit—ABSL-3 Biocontainment Barriers).

4. Perform assigned or scheduled duties.
5. Exit the biocontainment barrier.

6. Exit the vivarium.

7. Sign out of the Painter Center Biocontainment Entry/Exit Log Book by entering the “time out” on the same line that entry information was recorded.

8. Exit the Painter Center.

Appendix:
- Painter Center Biocontainment Entry/Exit Log

<table>
<thead>
<tr>
<th>Author:</th>
<th>Date: 12/11/2013</th>
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</thead>
<tbody>
<tr>
<td>Steven K. Cary BS, LATg—Animal Care Specialist—LAR</td>
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<tr>
<td>Reviewed by: Jessica Ayers DVM, DACLAM—Associate Director—LAR</td>
<td>Date: 6/9/2014</td>
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<tr>
<td>Revision #1 by: Name—Title—Department</td>
<td>Date:</td>
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<tr>
<td>Reviewed by: Name—Title—Department</td>
<td>Date:</td>
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Additional lines for each subsequent Review/Revision
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<thead>
<tr>
<th>Date</th>
<th>Full Name (print legibly)</th>
<th>Principal Investigator</th>
<th>Barrier</th>
<th>Time In</th>
<th>Time Out</th>
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STANDARD OPERATING PROCEDURES
LABORATORY ANIMAL RESOURCES (LAR)
COLORADO STATE UNIVERSITY

LAR SOP #LGP 005

Category: LAR—General Procedures

Title: Painter Center Entry/Exit—ABSL-3 Biocontainment Barriers

Approved by: Lon Kendall DVM, PhD—Director—LAR

Signature: [Signature]

Effective Date: 3/28/2012
Revision Date: 6/18/2014

Revision Date: 1/14/2015

Persons Responsible
All Painter Center Biocontainment Barrier Users

Purpose
To standardize the entry and exit of personnel to and from the ABSL-3 biocontainment barriers of the Painter Center for Laboratory Animal Care in order to maintain biosafety and biosecurity as recommended by the Biosafety in Microbiological and Biomedical Laboratories (BMBL) manual. See LAR SOP #LGP 007 Painter Center Entry/Exit—ABSL-3 Material Transfer for procedures regarding the entry and exit of equipment and supplies to and from Painter Center ABSL-3 biocontainment barriers.

Safety Considerations
NOTE: THE PI IS RESPONSIBLE FOR THE SAFETY AND TRAINING OF THEIR LABORATORY PERSONNEL.

Procedure
The Painter Center has two ABSL-3 biocontainment barriers, including the entire B-wing animal holding area and the D102 suite. All personnel entering either barrier must:

- Be advised of the potential biohazard.
- Have had a negative PPD skin test (for tuberculosis exposure) within the last year.
- Be prepared to shower out of the barrier facility. A full body shower is generally optional at individual discretion, however, it is required following:
  - A biological spill outside a biosafety cabinet.
  - Routine cage changes.

- Don facility specific clothing and footwear including required Personal Protective Equipment (PPE).
  - Personal outerwear, jewelry and accessories are not allowed, except for:
    - Prescription eyewear, as needed. Hand wash on barrier exit.
    - Magnetic key cards without lanyards or pouches, as needed. Hand wash on barrier exit.
  - Personal undergarments are not allowed if/when a full body shower is planned or required. Options include:
    - No undergarments.
- Barrier dedicated, reusable personal undergarment(s) made from semi-hydrophobic material, e.g., swimsuit material, etc.
  - Hand washed when showering out on barrier exit.
  - Hang/dry/store in the barrier locker room.
- Personal “street” undergarments are allowed if/when a full body shower is not planned or required. If/when an unexpected event occurs and a full body shower becomes necessary while already in the barrier and wearing personal “street” undergarments, the following options exist.
  - Discard the undergarments with barrier trash to be autoclaved on barrier exit.
  - Hand wash the undergarments during the required shower. Hang/dry in the barrier locker room for later retrieval.
  - Autoclave the undergarments for later retrieval.
- Receive biocontainment barrier entry/exit training from:
  - Experienced co-workers (Investigator staffs).
  - The LAR Training Coordinator (Investigator staffs, as needed, and all LAR staff).

Personnel Entry:

1. Enter the facility (see LAR SOP #LGP 001 Painter Center Entry/Exit—Personnel).

2. Sign into the Painter Center Biocontainment Entry/Exit Log if a biocontainment barrier (B-wing and/or D102) is the intended destination (see LAR SOP #LGP 002 Painter Center Biocontainment Entry/Exit Log).

3. Enter the appropriate, gender specific locker room.

   3.1 Don facility attire (see LAR SOP #LGP 001 Painter Center Entry/Exit—Personnel).

      - Street clothing option.

      OR

      - Facility attire option.

   3.2 Obtain a towel, as needed, and a clean set of facility scrubs and socks.

Personnel Entry with the Street Clothing Option:

4. Proceed to and enter the desired, gender specific, barrier locker room (key card access required).

5. Place the towel, as needed, in close proximity to the shower exit.

6. Remove and store the lab coat on/in provided coat hooks or lockers.

7. Remove and store facility footwear neatly on the floor (retain the facility socks for barrier entry).

8. Remove and store all remaining street clothing, jewelry and accessories (including magnetic key card lanyards and pouches) except prescription eyewear and magnetic key cards, as needed, in the provided lockers. See bullet points 3 and 4 under Procedure, above, for undergarment options.
9. Don facility scrubs.

10. Don ABSL-3 Personal Protective Equipment (PPE), including, but not necessarily limited to, a
    helmet, an N-95 respirator and two pairs of disposable gloves.
    
    10.1 B-wing PPE is located in the B-wing barrier Personnel Entry hallway.
    10.2 D102 PPE is located in the D102 locker rooms.

    THEN

11. Enter the B-wing ABSL-3 biocontainment barrier.
    
    11.1 Via the B-wing barrier personnel entry airlock or, alternatively,
    11.2 Via the B-wing Material Transfer Airlock.
    
    • Assure that the barrier doorway is closed prior to entry.
    • Enter the airlock and allow the non-barrier doors to close.
    • Open the barrier doors (keycard access required) and cross the barrier threshold.

    OR

12. Enter the D102 ABSL-3 biocontainment barrier via the appropriate, gender specific, D102 barrier
    locker room.

    THEN

13. Don barrier specific footwear.

14. Don any additional, barrier, room or situation specific PPE, as needed.

    Personnel Entry with the Facility Attire Option:

15. Proceed to and enter the desired, gender specific, barrier locker room (key card access required).

16. Place the towel, as needed, in close proximity to the shower exit.

17. Remove and store facility footwear neatly on the floor (retain the facility socks for barrier entry).

18. Remove and store all jewelry and accessories (including magnetic key card lanyards and pouches)
    except prescription eyewear and magnetic key cards, as needed, in the provided lockers. See
    bullet points 3 and 4 under Procedure, above, for undergarment options.

19. Store the clean set of facility scrubs/socks in the provided lockers for use on barrier exit.

20. Don ABSL-3 Personal Protective Equipment (PPE), including, but not necessarily limited to, a
    helmet, an N-95 respirator and two pairs of disposable gloves.
    
    20.1 B-wing PPE is located in the B-wing barrier Personnel Entry hallway.
    20.2 D102 PPE is located in the D102 locker rooms.

    THEN

21. Enter the B-wing ABSL-3 biocontainment barrier.
    
    21.1 Via the B-wing barrier personnel entry airlock or, alternatively,
21.2 Via the B-wing Material Transfer Airlock.

- Assure that the barrier doorway is closed prior to entry.
- Enter the airlock and allow the non-barrier doors to close.
- Open the barrier doors (keycard access required) and cross the barrier threshold.

OR

22. Enter the D102 ABSL-3 biocontainment barrier via the appropriate, gender specific, D102 barrier locker room.

THEN

23. Don barrier specific footwear.

24. Don any additional, barrier, room or situation specific PPE, as needed.

Personnel Exit:

25. Remove, and return to storage, any additional, barrier, room or situation specific PPE. This does not include basic ABSL-3 PPE (hairnet, N-95 respirator and disposable gloves).

26. Proceed to the barrier exit.

26.1 Exit the B-wing barrier via the gender specific degowning rooms.

- Remove barrier specific footwear and store on the rack at the degowning room entrance.
- Remove and discard the outer pair of disposable gloves in the trash container at the degowning room entrance.
- Enter the appropriate, gender specific, degowning room.
- Remove facility socks and scrubs and place them in the appropriate, marked, collection containers.
- Hold your breath.
- Remove and discard disposable PPE (hairnet, N-95 respirator and gloves).
- Enter the shower stall. Wait for the door to close. Resume breathing.

Following Most Routine Procedures

- Wash prescription eyewear and magnetic key card, as needed.
- Wash and dry your hands.

OR,

Following Biological Spills Outside the BSC and Routine Cage Changes

- Wash prescription eyewear and the magnetic key card, as needed.
- Remove and hand wash barrier dedicated reusable undergarments in the shower, if used.
- Take a full body shower, including hair, using soap and shampoo.
- Retrieve the previously stored towel from the barrier locker room and towel dry both body and hair.

- Enter the barrier locker room.
• Store barrier dedicated, reusable undergarments in the barrier locker room to dry prior to the next use.
• Don clothing. Either:
  
  o Street clothing with facility socks, footwear and white lab coat.

  OR

  o Facility scrubs, socks and footwear.

• Exit the barrier locker room with the used towel.

26.2 Exit the D102 barrier via the D102 unisex shower and the gender specific barrier locker rooms. The unisex shower does not have a degowning area. The shower stall has three doors. When facing the shower head, the door to the rear will access the D102 barrier central area, the door to the left will access the Men's locker room and the door to the right will access the Women's locker room. The shower head height is adjustable to accommodate either hand washing or full body showering, as needed.

• Return barrier specific footwear to its storage location.
• Hold Your Breath.
• Remove disposable PPE (hairnet, N-95 respirator and gloves) and discard in the adjacent trash container.
• Step into the unisex shower stall. Wait for the door to close. Resume breathing.
• Remove the facility socks and scrubs.
• Place the socks and scrubs into the laundry collection bin via the small laundry chute in the shower stall.

Following Most Routine Procedures

  o Adjust the shower head to hand washing height.
  o Wash prescription eyewear.
  o Wash and dry your hands.

OR,

Following Biological Spills Outside the BSC and Routine Cage Changes

  o Adjust the shower head to hand washing height.
  o Wash prescription eyewear.
  o Remove and hand wash barrier dedicated reusable undergarments in the shower, if used.
  o Adjust the shower head to shower height.
  o Take a full body shower, including hair, using soap and shampoo.
  o Retrieve the previously stored towel from the barrier locker room and towel dry both body and hair.

• Assure that the deadbolt lock on the barrier central area door is in the open position for the next user.
• Enter the appropriate, gender specific, barrier locker room.
• Store barrier dedicated, reusable undergarments in the barrier locker room to dry prior to the next use.
• Don clothing. Either:

  o Street clothing with facility socks, footwear and white lab coat.
OR

- Facility scrubs, socks and footwear.
  - Exit the barrier locker room with the used towel.

27. Return to the appropriate, gender specific, Painter Center locker room.

28. Place the used towel in the marked laundry container.

29. Remove and return facility footwear to its storage location.

30. Remove any facility attire and place in the marked laundry container(s).

31. Don street clothing and footwear as needed.

32. Sign out of the Painter Center Biocontainment Entry/Exit Log.

33. Exit the facility (see LAR SOP—Painter Center Entry/Exit—Personnel).

| Author: Steven K. Cary BS, LATg—Animal Care Specialist—LAR | Date: 7/8/2009 |
| Reviewed by: Denise Ostmeyer BS, CVT, LATg—Staff Trainer—LAR | Date: 2/21/2012 |
| Revision #1 by: Steven K. Cary BS, LATg—Animal Care Specialist—LAR | Date: 5/6/2014 |
| Reviewed by: Jessica Ayers DVM, DACLM—Associate Director—LAR | Date: 6/9/2014 |
| Revision #1 by: Steven K. Cary BS, LATg—Animal Care Specialist—LAR | Date: 10/7/2014 |
| Reviewed by: Jessica Ayers DVM, DACLM—Associate Director—LAR | Date: 1/14/2015 |

Add additional lines for each subsequent Review/Revision
PERSONS RESPONSIBLE
All Painter Center Biocontainment Barrier Users

PURPOSE
To standardize the entry and exit of equipment and supplies to and from the ABSL-3 biocontainment barriers of the Painter Center for Laboratory Animal Care in order to maintain biosafety and biosecurity as recommended by the Biosafety in Microbiological and Biomedical Laboratories (BMBL) manual. Please see LAR SOP #LG005 Painter Center Entry/Exit—ABSL-3 Biocontainment Barriers for procedures regarding the entry and exit of personnel to and from Painter Center ABSL-3 biocontainment barriers.

SAFETY CONSIDERATIONS
PRINCIPAL INVESTIGATORS (PI) ARE RESPONSIBLE FOR THE SAFETY AND TRAINING OF THEIR STAFF

The Painter Center has two ABSL-3 biocontainment barriers, including the entire B-wing animal holding area and the D102 suite. All personnel entering either barrier must:

- Be advised of the potential biohazard.
- Have had a negative PPD skin test (for tuberculosis exposure) within the last year.
- Don facility specific clothing and footwear including required personal Protective Equipment (PPE). Personal clothing, jewelry and accessories (excluding prescription eyeglasses) are not allowed.
- Receive biocontainment barrier entry/exit training from experienced co-workers and/or LAR training staff.
- Be prepared to shower out of the barrier facility.

PROCEDURE
Equipment and supplies may be introduced into the Painter Center biocontainment barriers via three different routes; the barrier specific personnel entry route, the barrier specific autoclave or the barrier specific material transfer airlock.

MATERIAL ENTRY VIA THE PERSONNEL ENTRY ROUTE

1. Carry small items, those that can be carried in one hand, via the barrier specific personnel entry route during barrier entry (see IDRC Material Policy).

MATERIAL ENTRY VIA THE AUToclave
Decontamination of equipment and supplies entering the barrier is not generally required but may be desirable and/or required for the performance of some duties, e.g., autoclaved clean mouse caging.
2. Decontaminate equipment and supplies for later retrieval by barrier personnel (see barrier specific LAR SOP Autoclave Operation).

Material Entry via the Material Transfer Airlock

3. Enter and exit the Painter Center ABSL-3 (B-wing and D102) Material Transfer Airlock(s) via the non-barrier doorway for the purpose of staging equipment and supplies for later retrieval by barrier personnel.
   3.1 Additional PPE is not required.
   3.2 Barrier and non-barrier doorways MUST NOT be opened simultaneously.
   3.3 Assure that the barrier doorway is closed prior to entry.
   3.4 Enter the non-barrier doorway.
   3.5 Stage equipment and supplies within arm’s reach of the barrier doorway when possible.
   3.6 Exit the non-barrier airlock doorway.

4. Access the Painter Center ABSL-3 (B-wing and D102) Material Transfer Airlock(s) from inside the barrier for the purpose of retrieving previously staged equipment and supplies.
   4.1 Assure that the non-barrier doorway is closed prior to entry.
   4.2 Open the barrier doorway.
      - Avoid direct contact with the airlock side of the door.
      - Prop open as needed.
      - DO NOT step across the threshold.
   4.3 Retrieve previously staged materials within arm’s reach.
   4.4 Close the barrier doorway.
   4.5 Use a barrier telephone to contact personnel outside the biocontainment barrier to stage or restage additional equipment and supplies within arm’s reach as needed.

Material Exit

5. Decontaminate most equipment and supplies to be removed from the biocontainment barrier in the barrier specific autoclave.

6. Decontaminate non-autoclavable items with a pathogen specific disinfectant product including, but not necessarily limited to:
   6.1 Aerosolized Chlorine Dioxide
   6.2 Vaporized Hydrogen Peroxide
   6.3 5% Hydrogen Peroxide spray.

7. Wash small items, e.g., prescription eyeglasses, key cards, etc., during a full body shower, or in the hand washing sink, as appropriate, during barrier exit.

8. Transfer data electronically.