Laboratory security is an integral part of an effective biosafety program. Biosecurity goals include the following:

- Prevent loss or contamination of valuable teaching and research materials and/or related sensitive information;
- Prevent release of potentially harmful organisms into the environment;
- Prevent accidental exposure to faculty, staff, students, and visitors; and
- Reduce the risk of theft of biohazardous material for the purposes of hurting or threatening others.

**Scope**

Security policies, practices, and procedures in this SOP apply to UALR laboratories engaged in the following types of projects:

- Recombinant DNA projects at Biosafety Level 2
- Projects involving Risk Group 2 (RG2) infectious agents and toxins

*Note:* Where applicable and possible, security measures should also be followed during analogous field research projects.

**General Security Measures**

Employees, as day-to-day occupants of laboratories, provide the first line of laboratory security.

Laboratory access should be restricted to those with a need; the PI is responsible to determine who will be granted access rights.
Keep laboratory doors closed. This protects experiments from contamination and discourages individuals from wandering into the room. Lock the doors when the room is unoccupied.

Keep stocks of organisms locked during off hours and when not attended by laboratory personnel. Freezers and refrigerators in corridors are particularly susceptible to access, so they need to be locked at all times.

Do not leave keys or access cards in open or accessible areas. Do not disclose access codes or loan keys to other personnel. Limit the number of persons with access rights to the minimum required to conduct the work in an efficient manner.

Ask strangers (someone you do not recognize as a co-worker or support staff person) to exit the room if they are not authorized to be there. Laboratories are off limits to non-authorized persons when research is being conducted at BSL II.

Strangers should always be able to account for their presence. If you do not feel comfortable with their answer, be prepared to take appropriate action. Your approach should be: a) ask them if they need assistance; b) politely ask them to leave the area; c) ask them to follow you to the department office to seek information (but do not leave the area unsecured while you serve as the escort); d) if necessary, call the UALR Police for assistance. Report such occurrences to the UALR Police Department.

Discuss how to handle strangers beforehand so that your response is proper and effective. The UALR Police can provide training and additional information upon request.

Know the building schedule for locking doors. If strangers are present in the building after it has been secured, call the UALR Police.

Visually inspect all packages of biohazardous materials arriving at the work area and open them within a biological safety cabinet. If stains are present on the package, the package is unexpected, or the package is damaged, isolate and secure the package, do not open it, and call the EHS. Out-going packages must be prepared in accordance with transport regulations and offered only by personnel who have completed shipping training within the past two years (Designated Shippers).

Keep an accurate record of RG 2 stocks and cultures, project materials, growth media, and those equipment items that support project activities. Track and account for any missing organisms or other items. Discuss any discrepancies with the lab supervisor and other lab employees, including future measures that will be taken to prevent loss of these items. Report losses to the UALR Police and the Biosafety Officer/EHS.
Research waste items related to RG 2 organisms must be autoclaved before disposal. Also, ensure that autoclave areas are monitored. If possible, take autoclave bags to the outside waste container early in the day to ensure same-day pickup. Keeping biological support materials out of the waste containers overnight is a way to prevent access to these items.

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When research is completed for the day, ensure that all biological materials have been properly stored and secured. Lock all laboratory doors.

Additional Considerations
Additional security measures may also be appropriate based on research or organism specific considerations. Applicability and appropriateness of additional security measures should be determined by the Principal Investigator using a risk assessment approach. Submission of a complete protocol for consideration by the IBC includes questions related to dual use considerations, which is relevant to bio-security considerations. In addition, the 5th Ed. of the BMBL describes a risk assessment approach that considers the biological agents in possession relative to potential for misuse and potential consequences; insider and outsider threats, motivation, and opportunity; robustness of existing security measures; and the need for enhanced measures.