

ENVIRONMENTAL HEALTH AND SAFETY

RESEARCH SAFETY

BIO SAFETY



Biosafety Level 2 (BSL-2) Laboratory Practices

The following are basic rules for operating a laboratory at BSL-2. The Principal Investigator (PI) is responsible for the enforcement of these practices:

▪ **Training**

- PIs and lab staff must complete *CITI Training* every three years.
- PIs must document lab-specific biosafety training and demonstrated proficiency for lab personnel.
- The **Bloodborn Pathogens** training is required if working with human source material or BBP (e.g. Hepatitis C virus, HIV).

▪ **Access**

- Keep labs closed and post a BSL-2 **biohazard warning sign** while infectious agents are in use.
- Store infectious agents in a lockable freezer or lab room.

▪ **Facilities**

- Furniture must be covered in a non-fabric, non-porous material that cannot easily be contaminated.
- No carpet or rugs
- Must have an eyewash and a sink

▪ **PPE**

- Wear appropriate PPE
- Standard BSL-2 PPE includes a lab coat, gloves and eye protection. Other PPE may be required (see **Purdue PPE Guideline**).

▪ **Engineering controls**

- All procedures involving infectious materials that may generate an aerosol should be performed in a bio-contained environment using a certified Class II Biosafety Cabinet.

▪ **Decontamination**

- Decontaminate all cultures, stocks and biohazardous waste prior to disposal using an autoclave or chemical disinfection.
- Decontaminate work surfaces and lab equipment after work, spills or splashes.

▪ **Waste**

- Place *biohazardous waste* in a leak-proof secondary container labeled with a biohazard symbol.
- Collect *sharps* in a red plastic container, and decontaminate the outside of container prior to transport.

▪ **References - Biological Safety Manual Purdue**



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