

## Minimum Biosafety Level 2 Laboratory Requirements for COMS-Approved Projects

*Additional stipulations may be listed in your approval letter.*

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***Biosafety Level 2 (BL2) builds upon Biosafety Level 1 (BL1). All requirements of BL1 are also required for BL2, with the addition of the following:***

### ***Work Practices***

- The Principal Investigator (PI) limits access to the laboratory and has final responsibility for determining who may enter or work in the laboratory.
- The PI must ensure that the laboratory members demonstrate proficiency in procedures performed.
- A sign incorporating the universal biohazard symbol must be posted at all entrances to the laboratory.
- All persons entering the laboratory must be advised of the potential hazards and meet established entry/exit requirements.
- This COMS approval letter must be available and accessible to all working in the laboratory.
- Laboratory equipment should be routinely decontaminated (in addition to after spills and at the completion of work). Equipment must be decontaminated before repair or maintenance.
- Animals not associated with the work being performed are not permitted in the laboratory.
- Infectious material used in procedures with a potential for creating aerosols or splashes, or used in high concentrations or large volumes, must be handled in an annually certified biosafety cabinet.
- Laboratory doors must be self-closing and remain unblocked.

### ***OSHA Blood Borne Pathogens (human materials and blood borne pathogens)***

- The Occupational Safety and Health Administration (OSHA) Bloodborne Pathogens standard (29 CFR 1910.1030) requires maintenance of a laboratory specific Exposure Control Plan (ECP) for work with human materials, annual training on blood borne pathogens, and documentation of hepatitis B vaccination offer and any voluntary declination of vaccination for potentially exposed personnel.

### ***Personal Protective Equipment (PPE)***

- Laboratory coats or gowns must be worn while working in the laboratory.

### ***References***

NIH guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH

Adopted by COMS: 6/22/2018

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Guidelines). <https://osp.od.nih.gov/biotechnology/nih-guidelines/>

Biosafety in Microbiological and Biomedical Laboratories, 5th ed.  
<https://www.cdc.gov/biosafety/publications/bmbl5/index.htm>