



MOUNT SINAI  
SCHOOL OF  
MEDICINE

## MOUNT SINAI SCHOOL OF MEDICINE BIOSAFETY PRACTICES SELF - AUDIT FORM

DATE \_\_\_\_\_ LAB ROOM NUMBERS: \_\_\_\_\_ PRINCIPAL INVESTIGATOR: \_\_\_\_\_

Atran  Annenberg  Icahn Medical Inst.(East Bldg)  Other Bldg.  \_\_\_\_\_ Number of employees in lab: \_\_\_\_\_

HIGHEST BioSafety Level :      BSL-1       BSL-2       (cannot self-audit BSL-3 labs)

TYPE OF HAZARDS PRESENT: r-DNA     HIV     RG-2 PATHOGENS     RG-3 PATHOGENS     HUMAN SOURCE Fluids and Tissues     VECTORS

Select Agents  \_\_\_\_\_ (specify)      Other Biohazard : \_\_\_\_\_

Requirement	Yes	No	NA	COMMENTS
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>A. Standard Microbiological Practices (BSLs 1 &amp; 2)</b>				
1. Access to the laboratory is limited or restricted by the Principal Investigator when work with microorganisms or organisms containing recombinant DNA molecules is in progress to those working in that lab.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. All doors to the laboratory are closed when work with microorganisms or organisms containing recombinant DNA molecules is in progress.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Work surfaces are decontaminated at least once a day and after any spill of viable material.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. All culture stocks, slants, contaminated liquid or solid wastes are decontaminated before disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

If you are *unsure* about any question, go to [www.mssm.edu/biosafety](http://www.mssm.edu/biosafety) for guidance materials. Additionally, several agency documents are of help:

The CDC's *Biosafety in Microbiological and Biomedical Laboratory* book at: <http://www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.htm> ;

The *NIH Guidelines* also provides information on vector systems, Risk Groups (RGs) and physical containment for rDNA activities at:

<http://www4.od.nih.gov/oba/rac/guidelines/guidelines.html> .

If you have further questions, contact the Biosafety Officer at 241-5169

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<b>Requirement</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>COMMENTS</b>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>A. Standard Microbiological Practices (BSLs 1 &amp; 2) continued</b>				
5. Mechanical pipetting devices are used; mouth pipetting is prohibited.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Eating, drinking, smoking, and applying cosmetics are not permitted in the laboratory work area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Persons wash their hands: (i) after handling materials involving microorganisms or organisms containing recombinant DNA molecules and animals, and (ii) when exiting the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. All procedures are performed carefully to minimize the creation of aerosols.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Are all reusable lab glassware and accessories decontaminated after each use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>B. Special Practices (BSLs 1 &amp; 2)</b>				
1. Contaminated materials that are to be decontaminated at a site away from the laboratory are placed in a durable leak-proof container which is closed before being removed from the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. The Principal Investigator limits access to the laboratory. The Principal Investigator has the final responsibility for assessing each circumstance and determining who may enter or work in the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. The Principal Investigator establishes policies and procedures whereby only persons who have been advised of the potential hazard and meet any specific entry requirements (e.g., immunization) may enter the laboratory or animal rooms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. When the microorganisms or organisms containing recombinant DNA molecules in use in the laboratory require special provisions for entry (e.g., vaccination), a hazard warning sign incorporating the universal biosafety symbol is posted on the access door to the laboratory work area.  The hazard warning sign identifies the agent, lists the name and telephone number of the Principal Investigator or other responsible person(s), and indicates the special requirement(s) for entering the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. An approved disinfectant known to be effective against the organisms in use is present in the laboratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Laboratory coats, gowns, smocks, or uniforms are worn while in the laboratory. Before exiting the laboratory for non-laboratory areas (e.g., cafeteria, library, administrative offices), this protective clothing is removed and left in the laboratory or covered with a clean coat not used in the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Animals not involved in the work being performed are not permitted in the laboratory.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Special care is taken to avoid skin contamination with organisms containing recombinant DNA molecules; gloves should be worn when handling experimental animals and when skin contact with the agent is unavoidable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. All wastes from laboratories and animal rooms are appropriately decontaminated before disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>B. Special Practices (BSLs 1 &amp; 2) continued</b>				
10. Only needle-locking syringes or disposable syringe-needle units (i.e., needle is integral to the syringe) are used for the injection or aspiration of fluids containing contain biological agents or organisms that contain recombinant DNA molecules. Hypodermic needles and syringes are used only for parenteral injection and aspiration of fluids from laboratory animals and diaphragm bottles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Needles should not be bent, sheared, replaced in the needle sheath or guard, or removed from the syringe following use. Extreme caution should be used when handling needles and syringes to avoid autoinoculation and the generation of aerosols during use and disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. The needle and syringe should be promptly placed in a puncture-resistant container and decontaminated, preferably autoclaved, before discard to <b>Biosystems</b> container or reuse.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Baseline serum samples for laboratory and other at-risk personnel are collected and stored immediately after an incident. Additional serum specimens may be collected periodically depending on the agents handled or the function of the facility and as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. Spills and accidents which result in overt / or suspected exposures to material containing biological agents are immediately reported to the Institutional Biosafety Officer and the Committee; if recombinant DNA molecules are involved,notification is made to the Institutional Biosafety Officer , the IBC, and to NIH/OBA.**	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. A biosafety manual is prepared or adopted. Personnel are advised of special hazards through written SOPs and are required to read and follow instructions on practices and procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*\*Reports to NIH/OBA shall be sent to the Office of Biotechnology Activities, National Institutes of Health, 6705 Rockledge Drive, Suite 750, MSC 7985, Bethesda, MD 20892-7985 (20817 for non-USPS mail), 301-496-9838, 301-496-9839 (fax). All Medical evaluations, surveillance, and treatments are provided as appropriate and written records are maintained as required by OSHA and other agencies.

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>C. Containment Equipment (BSL2)</b>				
1. Biological safety cabinets (Class I or II) or other appropriate personal protective or physical containment devices are used whenever procedures with a high potential for creating aerosols are conducted (see <a href="#">Appendix G-III-L</a> and <a href="#">Appendix G-III-O</a> , <i>Footnotes and References of Appendix G-NIH Guidelines</i> ).  These may include centrifuging, grinding, blending, vigorous shaking or mixing, sonic disruption, opening containers of materials whose internal pressures may be different from ambient pressures, intranasal inoculation of animals, and harvesting infected tissues from animals or eggs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Biological safety cabinets (Class I or II) or other appropriate personal protective or physical containment devices are used whenever high concentrations or large volumes (10L) of microorganisms or organisms containing recombinant DNA molecules are used. (see <a href="#">Appendix G-III-L</a> , <i>Footnotes and References of Appendix G</i> ).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are Biological Safety Cabinets in use certified annually?(Required for HIV and other BBP production labs -document needed-photocopy and attach)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Last Date Certified: _____ Certifier: _____
4. All Specimens / Cultures are <u>secured</u> from general access by non-laboratory associated individuals in freezers and / or incubators? (Lock and key access?)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Are signs with Biohazard symbols posted on all stock culture containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Are all biomedical wastes, including gloves and disposable Personal Protection Equipment items, disposed of <b>only</b> in red bags? (Not in clear bags)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Laboratory Facilities (BSLs1&amp;2)</b>				
1. The laboratory is designed so that it can be easily cleaned.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Bench tops are impervious to water and resistant to acids, alkalis, organic solvents, and moderate heat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Laboratory furniture is sturdy and spaces between benches, cabinets, and equipment are accessible for cleaning.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Each laboratory contains a sink for hand washing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. An autoclave for decontaminating laboratory wastes is available on the same floor or within the same building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Are durable, leak proof containers used for transporting contaminated materials to a decontamination site away from the generating laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Are the containers in sound condition? (Leak proof, not damaged from heat)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Are there eye-wash stations available in your lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Lab Personnel training (BSLs1&amp;2)</b>				
1. Have personnel been trained in the hazards associated with and instructed in safe-handling methods for the biological agent(s) used in the lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Do all lab Personnel possess adequate experience and training for BSL-2 related research?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are the MSSM <i>BioSafety and Exposure Control Plan / Bloodborne Pathogens</i> booklets available to all personnel at all times? (on the biosafety website)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Are Standard Operating Procedures for microorganisms or organisms containing recombinant DNA molecules, obtainable from the MSSM BSO, immediately available to all personnel in your lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. All Personnel have access to and have read appropriate sections of the CDC-NIH's " <i>Biosafety in Microbiological and Biomedical Laboratories</i> , 4 <sup>th</sup> or 5 <sup>th</sup> editions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. For laboratories working with organisms containing recombinant DNA molecules, have all personnel read and become familiar with the requirements of the <i>NIH Guidelines</i> , specifically the Section III reporting requirements for recombinant DNA activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**SIGNED:** \_\_\_\_\_  
Principal Investigator

**APPROVAL:** \_\_\_\_\_  
BIOSAFETY OFFICER

Date: \_\_\_\_\_

Date: \_\_\_\_\_

BSO Form-3 (rev)

Please forward completed forms to: Biosafety Officer, Box 1155  
or electronically to: [philip.hauck@mssm.edu](mailto:philip.hauck@mssm.edu)