

Instructions: For each item on the list, indicate what form type the material is kept in (e.g., hardcopy, local electronic, or VM) and the room # where the material is kept if hardcopy or local electronic/digital copy. If the material is found in the Virtual Manual, indicate "VM". If the topic does not apply indicate "N/A" as the Type. Please also provide the email address under which your Virtual Manual profile is stored.

UNL Environmental Health and Safety · (402) 472-4925 · <http://ehs.unl.edu>

PI Name:

Lab Location
(Building & Rooms):

Virtual Manual profile
login email address:

You can access your virtual manual at: <https://scsapps.unl.edu/VirtualManual/AccessYourProfile.aspx>

Content Type & Location	Topic	Content and/or Source/Reference ⁽¹⁾
Type	Room #	
	Risk Assessment and Research Description	1) Current IBC Protocol Form 2) Other research project forms as applicable (e.g., IACUC, IRB, Radiation Safety, etc.) 3) EHS SOP: Biosafety Containment Levels (<i>containment level is set by the IBC; lab members should understand what that means</i>)
	Agent Hazard Summary (This describes the hazards associated with handling and use of a biological agent. e.g., transmission, symptoms, containment, etc.)	The information required for this topic may be covered in one or more of the following: 1) Risk assessment (as described above). 2) Hazard information provided by commercial supplier. 3) Human Pathogens a. Public Health Agency of Canada Pathogen Safety Data Sheets http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/index-eng.php 4) Animal Pathogens a. Center for Food Security & Public Health http://www.cfsph.iastate.edu/DiseaseInfo/index.php b. World Organization for Animal Health (OIE) http://www.oie.int/en/animal-health-in-the-world/information-on-aquatic-and-terrestrial-animal-diseases/ 5) Plant Pathogens/Pests a. European and Mediterranean Plant Protection Organization (EPPO) https://www.eppo.int/ACTIVITIES/plant_quarantine/alert_list a. USDA-ARS Fungal Database http://nt.ars-grin.gov/fungalatabases/index.cfm
	Medical qualification and/or surveillance requirements	A description of any medical surveillance required for personnel in the lab. This is based on the risk assessment and is described in the IBC protocol and lab specific procedures.
	Laboratory access restrictions and entry/exit procedures	1) Lab-specific; developed by PI or designee, and; 2) EHS SOP: Security Advice for Research Facilities.
	General Laboratory Precautions and Procedures	EHS SOPs: <ul style="list-style-type: none"> • Avoiding the Production of Biological Aerosols • Biosafety Cabinets • Mammalian Cell and Tissue Culture Biosafety • Sharps – Handling and Disposal • Transport of Biohazardous Materials • Lentiviral Vectors (if applicable)
	Proper use, limitations, care, and maintenance of PPE specific to lab and/or operations.	Lab-specific; developed by PI or designee.
	Standard and Special Microbiological Practices	You may reference the NIH Guidelines, and/or BMBL, or; use the EHS SOP: Microbiological Laboratory Practices.
	Laboratory Specific Practices and Techniques for high risk operations	Lab-specific; developed by PI or designee. <ul style="list-style-type: none"> • Special emphasis on procedures and/or equipment that increases risk of occupational exposure (e.g., use of sharps or aerosol production)
	Disinfection/ Decontamination/ Waste Disposal Considerations	1) Laboratory specific autoclave operations and cycle settings; 2) Disinfection and decontamination agents, methods, and frequencies (see the content guidance for this item in the main SOP for specific procedures that should be described); 3) Material Safety Data Sheets for chemical disinfectants; 4) The following EHS SOPs: <ul style="list-style-type: none"> • Autoclave Operation and Performance Testing • Biological Decontamination of Laboratory Equipment • Chemical Disinfectants for Biohazardous Materials • Disposing of Biohazardous Materials including Recombinant Nucleic Acids.

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		Emergency Procedures	<p>1) Emergency telephone numbers- 911, UNLPD, EHS, and lab contacts (advisable to post next to telephone as well); 2) Location of building specific alarms, evacuation routes, and gathering locations; 3) Location, content, and limitations of laboratory spill supplies; 4) the following EHS SOPs:</p> <ul style="list-style-type: none"> • On-the-Job & Student Injuries • Incident Reporting- National Institutes of Health (NIH) Guidance • Spill and Exposure Response for Biohazardous Materials.
		Bloodborne Pathogens Program Materials	<p>Select "Bloodborne Pathogens" in your VM.</p> <ul style="list-style-type: none"> • Copies of immunization records or declination statements for each employee. • Local copies of the Enrollment Checklist, Lab-specific Training Verification Form and BBP Exposure Care Kit (downloaded through VM) <p>EHS SOPs:</p> <ul style="list-style-type: none"> • Cleaning up Spills of Biohazardous Materials • Cleaning up Spills of Bloodborne Pathogens • Handling Laundry Potentially Contaminated with Bloodborne Pathogens • Guidance for Collection and Storage of Human Samples • HIV and HBV Research Laboratories
		CDC or USDA/APHIS for Import, Possession, or Movement of regulated materials	<p>A copy of these permits should be attached to your IBC protocol, but it is recommended to keep a copy in your biosafety manual as well.</p>
		Training records (EHS and lab-specific)	<ul style="list-style-type: none"> • EHS SOP: Biosafety Training • Training records should be maintained for the lab. EHS can provide a copy of personnel training history for online training courses, but lab-specific and biosafety refresher training must be documented by the lab.

Additional Manual Content not covered by the above topics

(1) All EHS SOPs referenced above are accessible from the Virtual Manual when you add "Biological Agents" and "Bloodborne Pathogens" to your profile.

Contact the UNL Biosafety Officer with any questions about this form at 402-472-4925.