

Case Western Reserve University Department of Environmental Health & Safety

Laboratory Specific ECP:

CWRU Exposure Control Plan for Biohazards (including Bloodborne Pathogens)

All laboratories at CWRU that handle any biohazardous materials including bloodborne pathogens and other potentially infectious materials, as defined by OSHA, must complete a supplement to the University's exposure control plan. This supplement is to be updated by the laboratory's exposure control officer on an annual basis or as there are changes to procedures, pathogens or laboratory personnel.

The exposure control plan serves as laboratory training tool as well a means to communicate laboratory hazards to non-laboratory personnel such as security, maintenance, EH&S and first responders. It is for this reason that this ECP supplement should be located in the lab and easy to find.

This supplement needs to address the following:

- PI and laboratory staff information and training
- Biohazard(s) information
- Possible exposure risk (risk analysis)
- Risk mitigation including engineering and administrative controls, along with required PPE
- Decontamination procedures

Principal Investigator:	Date:
PI Department:	
PI office location:	
PI office phone:	
PI emergency phone:	
PI email:	
Laboratory Exposure Control Officer (if not PI):	
Exposure Control Officer phone (office & emergency):	
Exposure Control Officer email:	

Laboratory Personnel: (include all personnel who have access to the laboratory)

Name	Position (and OSHA employee category if working with BBP)	Dates Training Completed (laboratory specific training)	Email	Phone number

Biohazard Locations: (list all laboratory locations where biohazards are used or stored)

Building	Room Number	BSL/ABSL containment level	Please list storage and containment equipment in each room (ex80 freezer, incubator, etc.) For biosafety cabinets, list the Class and Type (ex. Class II A2)
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Inventory of Biological Materials: (materials of human or non-human primate origin are captured in the following question)

Nature of Materials (animal, virus, bacteria, toxin, parasite, recombinant or synthetic nucleic acids, etc.)	Species/ Name	Risk Group (can be found here)	Medical monitoring required or recommended (including HepB vaccine) (if yes, what?)	Additional concerns for immuno-compromised individuals?
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Materials of Human or Non-Human Primate Origin: (Only one line needs to be addressed for similar materials)

Material (cells, tissue, organ)	Obtained from a primary donor or vendor? (If obtained from a vendor, which one?)	Do these materials have a product specification sheet?	If obtained from a primary donor, is your study population known or expected to be infected with a pathogen? If so, what.	Are you using known oncogenic, tumorogenic or cancerous materials?

Potential Exposure Information:

What are the potential transmission routes for any pathogens you are using? Airborne Bloodborne Ingestion Mucus Membranes Opportunistic Zoonotic
Briefly describe symptoms of exposure:
Do you have post-exposure procedures in place? Yes No (If yes, please send a copy along with your ECP submission)
If Yes, does University Health Services have a copy of these procedures? Yes \(\bigcap \) No \(\bigcap \)
General Regulatory Information:
Do your experiments include the use of recombinant or synthetic nucleic acids (including but not limited to RNAi in animals, viral vectors, GFP/luciferase integration or nanoparticles but not including , PCR primers, PolyI:C or cDNAs)? Yes No
Do your experiments utilize gene editing technologies such as CRISPR, TALENS or zinc fingers? Yes No
Do your experiments include the use of transgenic animals or plants (including D. <i>melanogaster</i> , <i>C. elegans, E. coli</i> or yeast)?
Are you using a select agent (Find a list of Select Agents here)? Yes Yes, exempt quantities No (If either Yes box is marked, please ensure the agent is listed in the biological inventory.)
Will you be using hazardous chemicals simultaneous with biohazards? Yes 🔲 No 🔲
Will you be using radioactive materials simultaneous with biohazards? Yes 🔲 No 🔲
Will you be sending or receiving samples? Yes (intrastate) ☐ Yes (interstate) ☐ Yes (international) ☐ No ☐
Do your materials require a permit from the USDA or CDC? Ves No D Unsure

Aerosols:

Will you be performing any aerosol Centrifugation Pipetting Flow cytometry /sorting	Blending Mixing	☐ Vortexing	Sonicating Necropsy	
What types of engineering controls Biosafety cabinet HEPA filter		itigate the aerosol risks? Tube opener	Sealed vials	
Sharps:				
Do any of your procedures include Needles and syringes Pasture pipettes	Scalpels	Glassware	Razors	
Will any of your procedures utilizing sharps involve: Human subjects Non-anesthetized, living animals				
What types of engineering controls will be employed to mitigate the sharps risks? Sharps container Broken glass box Broom & dustpan Tongs Recapping stand Engineered (safe) sharps Other				
Disinfection/Decontamination:				
Which of the following primary disi 10% Bleach Quaternary ammonia	1-5-1 Clidox	Phenolytics	pill clean-up?	

Personal Protective Equipment:

Indicate all PPE to be used	while working with th	e biohazards listed in this	document:		
Gloves:	Nitrile	Latex	Other		
Eye Protection:	☐ Safety glasses	☐ Safety goggles	Face shield		
Lab coat:	Reuseable	Disposable	_		
Respirator:	□ N95	Cartridge	PAPR		
Additional PPE:	Tyvek Suit	Shoe covers	Hair bonnet		
	Apron	Ear plugs			
Other					
Righazardous	/Medical Waste:				
Dioliazai dous,	, ivicultai vvaste.				
Waste containment:					
Rigid sharps conta	iner 🔲 Cardboa	ard burn box	Red bags		
Broken glass box	Broken glass box Other				
Hazard neutralization:					
Autoclave	ा Mixed w	vaste, EH&S to dispose	☐ Chemical disinfection		
Other					
Work Practices (Plea	ase attach relevan	nt SOPs or fill out th	e section below):		
Please describe any specif	ic work practices that v	will be employed while ut	ilizing the biohazards listed in		
this document which have not previously been described in University's ECP or this supplement:					

Assurances:

As the Principal Investigator of the research described within this document, I understand the safety of all persons who enter my laboratory is ultimately my responsibility. Furthermore, I understand it is my duty to:

- Ensure all new staff and students have undergone EH&S Laboratory Standard and Biosafety training.
- Provide laboratory specific training to all new personnel. This will include a review of this document as well as a review of CWRU's Exposure Control Plan and Laboratory Safety Manual.
- Ensure annual laboratory and EH&S Biosafety retraining for all staff members.
- Provide all necessary Personal Protective Equipment to all laboratory members.
- Update and re-submit this document annually or whenever there is a change in procedure, pathogen or staff.
- Ensure each member of the laboratory has been adequately informed of the risks associated with the biohazards in use and is aware of the symptoms of exposure.
- Properly train each laboratory member on each procedure to be performed and all equipment.

Signed	Date	Signed	Date
Exposure Cor	ntrol Officer	Princi	pal Investigator

Electronic signatures are acceptable. The signature of the ECO and/or the PI also represents that all laboratory staff have reviewed and understand this document.

Send/Deliver this form to:
EHS
Service Building, First Floor
Location Code: 7227
Attention: Safety Services

OR email to cwruehs@case.edu