

Case Western Reserve University Department of Environmental Health & Safety

Laboratory Specific Supplement:

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

Principle Investigator: ______
PI office location: ______

PI phone and email: ______

Laboratory Exposure Control Officer (if not PI):_____

Exposure Control Officer phone & email: _____

Note: Additional space for the next 4 charts is available at the end of this document

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

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

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)

Biohazard Inventory: (if only utilizing materials of human or non-human primate origin, please

proceed to the next question)

Type of hazard (virus, bacteria, toxin, parasite, recombinant or synthetic oligoniucleotides, etc.)	Species/ Name	Risk Group	Medical monitoring required or recommended (including HepB vaccine) (if yes, what?)	Additional concerns for immunocompromised individuals?

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?	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 transmissio	n routes for any pathogen Bloodborne Opportunistic	s you are using? Ingestion Zoonotic			
Briefly describe symptoms of expo	Briefly describe symptoms of exposure:				
Do you have post-exposure procedures in place? Yes 🔲 No 🔲					
If Yes, does University Health Services have a copy of these procedures? Yes 🔲 No 🗐					

General Regulatory Information:

Do your experiments include the use of recombinant or synthetic oligonucleotides (include the GPF, luciferace, nanoparticles, RNAi in animals)? Yes I No I	uding but not
Do your experiments include the use of transgenic animals or plants (including D. <i>melar elegans</i> or yeast)? Yes A No	oogaster , C.
Are you using a select agent? Yes 🔲 Yes, exempt quantities 🔲 No 🗍	
Will you be using hazardous chemicals simultaneous with biohazards? Yes 🔲	No 🔲
Will you be using radioactive materials simultaneous with biohazards? Yes 🔲	No 🔲

Aerosols:

ol producing procedure	s, such as:	
🔲 Blending	Vortexing	Sonicating
🔲 Mixing	🔲 Grinding	Necropsy
🔲 Other		
s will be employed to r	nitigate the aerosol risks?	
Sealed rotors	🔲 Tube opener	Sealed vials
Other		
	ol producing procedure Blending Mixing Other s will be employed to r Sealed rotors Other	ol producing procedures, such as: Blending Vortexing Mixing Grinding Other s will be employed to mitigate the aerosol risks? Sealed rotors Tube opener Other

Sharps:

Do any of your procedures include	the use of sharps, such as:	
Needles and syringes	🔲 Scalpels 🛛 🔲 Glassware	Razors
Pasture pipettes	🔲 Other	
Will any of your procedures utilizing	g sharps involve:	
🔲 Human subjects	oxdown 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 dis	infectants will be emp	bloyed for work space and spill clean-up?
🔲 10% Bleach	🔲 1-5-1 Clidox	Phenolytics
🔲 Quaternary ammonia	🔲 Other	

Personal Protective Equipment:

Indicate all PPE to be used while working with the biohazards listed in this document:			
Gloves:	🔲 Nitrile	🔲 Latex	🔲 Other
Eye Protection:	🔲 Safety glasses	Safety goggles	🔲 Face shield
Lab coat:	🔲 Reuseable	Disposable	
Respirator:	🔲 N95	🔲 Cartridge	D PAPR
Additional PPE:	🔲 Tyvek Suit	Shoe covers	🔲 Hair bonnet
	🔲 Apron	🔲 Ear plugs	
Other			

Biohazardous/Medical Waste:

Waste containment: Rigid sharps container Broken glass box	Cardboard burn box Other	Red bags
Hazard neutralization: Autoclave Other	Mixed waste, EH&S to dispose	Chemical disinfection

Work Practices:

Please describe any specific work practices that will be employed while utilizing the biohazards listed in this document which have not previously been described in University's ECP or this supplement:

Assurances:

As the Principle 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		Principle 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.

Continued from pages 2 & 3:

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

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