Biological Risk Assessment Form

Permit Holder:	Date submitted:
Link to Personnel Google Sheet:	Location(s) for this work:
Romeo File Number:	

1.0 Hazardous Characteristics of a Biological Agent

List all organisms below that will be manipulated during the work at the same Risk Group Level in the same location. Organisms that form a collection and are not manipulated should be appended as a separate list. If you are not isolating/culturing pathogens from environmental, human or animal clinical samples, under organism, describe sample type. If your lab has more than 5 biohazards, please use this form to add them to your BRAF.

Organism or	# Organism required to initiate	Treatment	Splash Potential	Origin	
Tissue	infection	available?	Canadanatian		
Type/Animal			Concentration		
Source					
	Infectious Dose Healthy individuals susceptible Immunocompromised individuals susceptible Not applicable (cell lines/tissues) Documented Lab Acquired Infections (LAI)	Vaccination Prophylaxis Other	Liquid culture Culturing Stock Solid Culture Sampling only Volumes >1L Working concentration	Pure culture ordered from supplier Exotic pathogen (not normally found in North America) Endemic pathogen (can be cultured from environment in N.A.) Human Clinical Sample Environmental Sample Isolates Animal Sample	
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Tissue	infection	available?			
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	Infectious Dose	Vaccination	Liquid culture	Pure culture ordered from supplier	
	Healthy individuals susceptible	Prophylaxis	Culturing	Exotic pathogen (not normally found in	
	Immunocompromised	U Other	Stock	North America)	
	individuals susceptible		Solid Culture	Endemic pathogen (can be cultured from	
	Not applicable (cell lines/tissues)		Sampling only	environment in N.A.)	
	Documented Lab Acquired		☐ Volumes >1L	Human Clinical Sample Isolates	
	Infections (LAI)		Working concentration	Environmental Sample Isolates	
		<u> </u>	<u> </u>	Animal Sample Isolates	
	Infectious Dose	Vaccination	Liquid culture	Pure culture ordered from supplier	
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	Not applicable (cell lines/tissues)		Sampling only	environment in N.A.)	
	Documented Lab Acquired		Volumes >1L	Human Clinical Sample Isolates	
	Infections (LAI)		Working concentration	Environmental Sample Isolates	
			-	Animal Sample Isolates	

Organism	List Risk Group confirmed on	Mode of	Vector Use?	Toxin Production	Viral Replication
	ePathogen and PSDS(Provide	Transmission or		under experimental	Competency
	hyperlink if available)	Route of Exposure		conditions?	
	RG:	Inhalation	None	None	Low Medium
	2020	Ingestion	Yes, list vector(s)	Yes, list toxin(s)	High N/A
	PSDS:	Injection Direct Skin, Eye or			
		mucosal membrane			
		exposure			
	RG:	Inhalation	None	None	Low Medium
	NG.	Ingestion	Yes, list vector(s)	Yes, list toxin(s)	High N/A
	PSDS:	Injection			
		Direct Skin, Eye or			
		mucosal membrane			
		exposure			
	RG:	Inhalation	None	None	Low Medium
		Ingestion	Yes, list vector(s)	Yes, list toxin(s)	☐ High ☐ N/A
	PSDS:	Injection			
		Direct Skin, Eye or mucosal membrane			
		exposure			
	DC.	Inhalation	None	None	Low Medium
	RG:	Ingestion	Yes, list vector(s)	Yes, list toxin(s)	High N/A
	PSDS:	Injection			
	1 353.	Direct Skin, Eye or			
		mucosal membrane			
		exposure			
	RG:	Inhalation	None	None	Low Medium
		Ingestion	Yes, list vector(s)	Yes, list toxin(s)	High N/A
	PSDS:	Injection			
		Direct Skin, Eye or			
		mucosal membrane			
		exposure			

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Biosafety Protocols that addresses safe work
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Lyophilizing	
Cell sorting	
Blenders	
Centrifuge	
Sonicator	
Vortex	
Grinding	
☐ Vigorous Shaking	
Homogenizing	
Flaming inoculating loops	
Large volume of biohazardous material in use,	
greater than 1 L	
Toxin production	
Cryogenic techniques	
Collection of Environmental Samples	
Culturing Environmental Samples	
Collection of Human tissues, bodily fluids	
Manipulation of Human tissues, bodily fluids	
Opening containers of infectious materials whose	
internal pressures may be different from ambient (e.g.	
heated samples)	
Biohazardous materials in powdery form	
Transport biohazardous materials outside of the lab	
Ship/Receive/Transport biohazardous materials	
outside of the lab building	
Vacuum filtration of biohazardous materials	
Non-standard manipulation (not listed above)	

5.0 Dual Use Potential

Dual Use Research is biological research with legitimate scientific purpose, the results of which may be misused to pose a biologic threat to public health and/or national security.

Does this research (check all that apply):	Υ	N
Allow for increased pathogencity?		
Widens pathogen's host range?		
Renders vaccination or standard treatment ineffective?		
Allow for non-standard contamination or increased transmissibility?		
Allow for increased ability of the pathogen to survive in conditions such as		
public food/water supply or animal feed supply?		
Allow for concealment of a RG 2, 3 or 4 pathogen from detection		
Increase the potential that the knowledge gained (data, methodology,		
results, technology, intermediate or final products be misused?		

6.0 Hazards Associated with Work Practices, Safety Equipment and Facility Safeguards

Mandatory PPE

Gloves When?

Labcoats When?

Safety Glasses When?

Face Shields When?

☐ Two pairs of gloves
Spill warning signs (minimum two signs)
☐ Tape
☐ Tongs
Absorbent materials (can be paper toweling)
Disinfectant, list
☐ Disposal bags or containers
Biosafety cabinet ?
Biosafety Protocols for safe use of Biosafety Cabinet in Section of Biosafety Manual.
Centrifuge Safety Cups
Sealed Centrifuge Rotors
O-rings inspected <12 months
Centrifuge Maintenance SOP Link:
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Medical Surveillance (Choose one) Users are advised of symptoms of infection, and reporting of all known exposures or potential Laboratory Acquired illnesses to Supervisor AND Biosafety Officer \ k
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For Biosafety Committee Use Only - Local Risk Assessment

Sec	tion 1 - Risk Assessment:
10. 11. 12.	Risk group of agent(s): 1
Sec	tion 2 – Controls in Place:
 2. 3. 4. 5. 6. 7. 8. 	Facility meets or exceeds CL applied for: Y N N N Not Applicable BSC available for aerosol generating procedures? Y N N Not Applicable Procedures listed on BRAF are appropriate to control exposure? Y N N PPE in use is adequate to prevent transmission of agent? Y N N Self-monitoring for LAI sufficient? Y N N Self-monitoring for LAI sufficient? Y N N N Self-monitoring sufficient Traffic flow patterns from clean to dirty areas are established and followed? Y N N N N N N N N N N N N N N N N N N
Cor	nmittee has recommendations/restrictions (to be listed on permit): Y \[\] N \[\] (list)

Date BSC Review:	BSO's Signature:	Chair's Signature:	
yy/mm	/dd		