UNIVERSITY OF HONG KONG

For use by the Biosafety Committee **Application Number:**



Form RA1

RISK ASSESSMENT FOR AN ACTIVITY INVOLVING WORK WITH BIOLOGICAL AGENTS (includes viruses, bacteria, parasites or fungi, and materials where these agents may be present eg. clinical samples)

The following is a pilot version of a risk assessment form for work with pathogens including viruses, bacteria, parasites or fungi. The form is intended to help identify appropriate safe working practices. Please expand boxes and add lines etc as required.

The risk assessment form is divided into two parts an administrative section and the assessment part.

The aim is to take the scientist proposing the work through the process in a logical and systematic way. It is hoped that the structure provided within the format itself will assist researchers in organising their thought processes and that it will indicate to them those aspects of specific types of work which need to be given particular attention.

As it stands the form is primarily aimed at risk assessments where human health and the prevention of unintentional infection is the main concern. The form may need modification or expansion before it would be totally suitable for infectious work in animals or for use in laboratories where environmental issues are the primary concern or where a large proportion of the work involved say gene therapy or the use of transgenic animals/plants.

PART 1 ADMINISTRATIVE DETAIL

1. PERSON/S RESPONSIBLE FOR THIS WORK (PRINCIPAL INVESTIGATOR)			
Name:	Position:		
Faculty: Department:			

2. OTHER STAFF INVOLVED					
Name	Position and Experience	Faculty	Department	Start date	Finish date (when known)

Review History			
	Review 1	Review 2	Review 3
Due Date of Review			
Date Carried out			
Carried out by (initials)			

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3. PERSON CARRYING OUT THE RISK ASSESSMENT			
Name:	Position:	Faculty:	Department:
Proposed start date for this work:-		Proposed finish date (if k	nown):-
Date risk assessment undertaken:-			

4. LOCATION OF ACTIVITIES			
Give details of where different activities will take place e.g. include manipulation, growth, storage, disposal, centrifugation etc.			
Room	Containment Level		

BMBL in the following section refers to the 5th Edition of *Biosafety in Microbiological and Biomedical Laboratories*. The full version or individual parts of the text in pdf downloadable format can be found at:-http://www.cdc.gov/OD/ohs/biosfty/bmbl5/bmbl5toc.htm. The whole text is also available on the university safety office website under the safety manual heading and the subheading of biosafety. The University Biosafety committee will accept the classification of microorganisms detailed in this publication.

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4 000 1007 7171 5		
1. PROJECT TITLE		
2 SUMMARY OF THE ACTIVITY	INCLUDING AN OVERVIEW OF T	HE PROJECT
		hat the average member of the public elation to intellectual property rights or
	cuss the issues with the Biological S	
i. Overview of the work:		
ii) Description of the procedure	s: (Please describe the types of pro	cedures to be carried out. This might
	ge and administration to animals. Ide	
require additional controls e.g. the	use of sharps, production of aeroso	ois etc)
		owever where appropriate give details
of materials used such as clinical and environmental samples)		
: \ O	- I /Ti's 's 'Gal'f a dead'al a san a	
	ed: (This is vital if potential exposure of the work in terms of the maximu	
number of times the procedures w	rill be carried out.)	•
3. HAZARDS ASSOCIATED WITH	H THE WORK	
3.1a Biological agents to be cultured deliberately (please insert rows if necessary).		
Name	Strains	Classification (BMBL)
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		<u> </u>			
3.1b Biological	agents which ma	y be incider	ntally present (please in	sert rows if neces	sary).
3 2 Are any of th	nese strains kno	wn or suspe	cted of being resistant	to standard drugs	or antibiotics?
			ted or have increased viru		or antibiotics:
			ent present in, for examp iruses polyhedron protein		
			sistance to disinfectants?	is fullclion similarly.	Are there arry
	<u> </u>				
3.4 Give a brief	overview of the	natural histo	ry of the agent/s includi	ng, associated dise	ase/s, dose and
			ries may help in formulati		,
i) Identify poten	tial routes of info	ection in the	laboratory:-		
Percutaneous		Ingestion	Splash in eye or mouth	Animal bite/scratch	Needlestick
Yes No		Yes No	Yes No	Yes No	Yes No
ii) Describe any etc)	disease that ma	y be caused	: (including symptoms,	severity, routes o	transmission
iii) Identify any particular group of people who may be at increased risk: (for example, pregnant					
			disease that increases		
	_				

4. CONTROLLING THE RISKS: (Hierarchy of Controls)

4.1. Substitution: Is substitution with a safer alternative practical? For example can a vaccine strain or laboratory adapted strain be used in the place of a pathogenic clinical sample? Please explain your conclusions.

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				gical hazards the use of s 1, Class 2 or Class 3)	
4.3 Administrative	controls:				
-	uately isolated/ segre	<u> </u>			
	s) shared with other arrangements for ma				
b. Is access to the	laboratory restricted	? Please provide deta	ils.		
measures necessary	 Local codes of pract g the quantity of agent 	ice may be referenced	d. Other controls ma		
	procedures: Add line waste includes items stasses, sharps etc				
	Detail of type of waste	Treatment before disposal	Validation of inactivation	How disposed	
Liquid Waste					
Solid waste					
Clinical Waste					
L	1	1	1	1	

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iv. Emergency Procedures: These should be detailed in the local code of practice, a brief summary is appropriate here.				
арриориям пост				
v. Transport: Transport within the laboratory and between laboratories (including between campuses)				
should be documented in the local code of practice, a brief summary is appropriate here. How will these agents be transported within the laboratory to avoid splashes and spills e.g. between the incubator and				
safety cabinet?				
4.4 Personal Protective Equipment (PPE): Please indicate what is required. Laboratory Coats must always be worn but the need for gloves, aprons, eye and respiratory protection etc will vary.				
Lab Coat Gloves Eye or face (specify if yes) Yes No Yes No	Other (specify)			
5. ENSURING CONTROL MEASURES ARE USED AND MAINTAINED				
Please indicate what, if any, checks on control measures are required e.g. annual maintenance of biological safety cabinets (also note the frequency of inspection needed).				
6. OCCUPATIONAL HEALTH ISSUES	veguined (This is required only in			
Please indicate if environmental or personal monitoring is required. (This is required only in exceptional circumstances where biological agents are concerned. If in doubt discuss the issue with the University BSO)				
Please indicate if Health Surveillance is required. (Advice can be obtained from the University Health				
Service and is only appropriate in a few circumstances).				
Please indicate whether there is a vaccine available for any	of the nathogens handled in this work and			
who will receive it. (All those handling clinical specimens are expected to receive hepatitis B virus vaccination with post immunisation monitoring of antibody levels to ensure effective protection has been				
achieved. For other pathogens advice may be sought from the University Health Service)				

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7. INSTRUCTION INFORMATION AND TRAINING		
Please indicate if there any specific training requirements:		
8. SIGNATURES		
The name and signature of the person making the assessment is required. Heads of department may also wish to sign but this is not necessary, however if the assessment is made by a student (undergraduate or postgraduate) or research assistant then their supervisor or PI should also sign.		
Name of Assessor:		
Signature:	Date:	
Name of Reviewer:		
Signature:	Date:	
Head of Department:		

Date:

Signature: