UNIVERSITY OF HONG KONG

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



Form RA5

RISK ASSESSMENT FOR AN ACTIVITY INVOLVING DELIBERATE WORK WITH RECOMBINANT POXVIRUSES

The following is a pilot version of a risk assessment form for work with recombinant poxviruses. 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. Specific worked examples are also provided on the safety office website.

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 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

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

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)	

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			-
3. PERSON CAR	RYING OUT THE RISK A	SSESSMENT	
Name:	Position:	Faculty:	Department:
Proposed start da	te for this work:-	Proposed finish	date (if known):-
Date risk assessn	nent undertaken:-		
4			
Give details of wh	ere different activities will	take place e.g. include ma	anipulation, growth, storage, dispo
Give details of wh	ere different activities will	take place e.g. include me	Containment Level
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
Give details of wh	ere different activities will		
4. LOCATION OF Give details of who centrifugation eto Activity	ere different activities will		

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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PART 2 RISK ASSESSMENT

1. PROJECT TITL	.E				
so that the averag	hould provide bo e member of the	public can unde	erstand. If presenting	and a simple explan g the scientific goals e discuss further wit	poses problems
				locument on Safety Office	e website)
3.1 Wild type pox	viruses to be ci	Strain	insert rows if nece		DI \
ivame		Strain		Classification (BMI	DL)
3.2 Recombinant	poxvirus strain	s to be culture	d (please insert ro	ws if necessary).	
Name		Parent Strain		Foreign genes exp	ressed
3.3 Hazards asso	ciated with exp	ression of the f	oreign gene	L	
Gene	Expression pro used and expe produced)		Biological Properti	es of Gene	Site of Insertion within virus

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			henotype/pathogenicit		
attenuated or have			ses listed in 3.2 and ind	icate if any of the s	strains are
atteridated of flave	increased vira	icricc.)			
3.5 Give a brief ov	verview of the	natural history	of the agent/s including	n associated dises	ase/s dose and
			s may help in formulating		ase/s, dose and
i) Identify potentia	al routes of inf	ection in the la	boratory:-		
	nhalation		Splash in eye or mouth	Animal bite or	Needlestick
	Yes/No		'es/No	scratch	Yes/No
etc)	isease that ma	ay be caused: (including symptoms, s	severity, routes of	transmission
iii) Identify any pa	articular group	of people who	may be at increased r	isk: (for example	pregnant
			sease that increases s		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4. SUMMARY OF	THE WORK				
i) Description of t	he procedures	: (Please descr	be the nature of the wor	k to be carried out	This might
			ation to animals. Identify		
additional controls				,, p	

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ii) Substances used: (Section 3 has of materials used such as clinical a	as details of specific organisms, howevent of the commental samples)	er where appropriate give details
	. ,	
	d: (This is vital if potential exposure and of the work in terms of the maximum cull be carried out.)	
5. CONTROLLING THE RISKS: (H	lierarchy of Controls)	
	rith a safer alternative practical? For exa n the place of a pathogenic clinical sam	
	fy if they are required e.g. for airborne necessary, if so, identify the type requir	
5.3 Administrative controls:		
i. Is the work adequately isolated		
	n other workers not involved directly s for maintenance staff and cleaning arm	
b. Is access to the laboratory res	stricted? Please provide details.	
ii Assignment of Containment le	evel: please specify the containment lev	vel required and any other control
measures necessary. Local codes	of practice may be referenced. Other cors are used, limiting the quantity of age	ontrols may include a stringent
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medium, whi	iii. Waste disposal procedures: Add lines as required. Liquid waste might include cultures and culture medium, while solid waste includes items such as culture flasks. Clinical Waste might include human samples, blood, carcasses, sharps etc							
samples, blo		I of type of	Treatment before disposal	Validation of inactivation	How disposed			
Liquid Waste)							
Solid waste								
Clinical Was	te							
iv. Emergen	cv Procedure	s: These shoul	d be detailed in the lo	cal code of practice, a	brief summary is			
appropriate h					,			
				ratories (including betw mary is appropriate he				
	insported withi			d spills e.g. between the				
•								
				at is required. Laborat				
Lab Coat Yes	Gloves Yes/No	Eye or face (s Yes/No		tory protection etc will Other (specify)	vary.			
6. ENSURIN	6. 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).

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Please indicate if there any specific training requirements: 9. 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: Head of Department:	Please indicate if environmental or personal more exceptional circumstances where biological agents a University BSO)	
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) 8. INSTRUCTION INFORMATION AND TRAINING Please indicate if there any specific training requirements: 9. 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: Head of Department:		
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Signature: Name of Reviewer: Signature: Date: Head of Department:	wish to sign but this is not necessary, however if the	assessment is made by a student (undergraduate or
Name of Reviewer: Signature: Date: Head of Department:	Name of Assessor:	
Signature: Date: Head of Department:	Signature:	Date:
Head of Department:	Name of Reviewer:	
·	Signature:	Date:
Signature: Date:	Head of Department:	
	Signature:	Date:

7. OCCUPATIONAL HEALTH ISSUES

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