### UNIVERSITY OF HONG KONG

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



#### Form RA4

# RISK ASSESSMENT FOR AN ACTIVITY INVOLVING DELIBERATE WORK WITH RECOMBINANT ADENOVIRUSES

The following 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 STAFI	F INVOLVED				
Name	Position and Experience	Faculty	Department	Start date	Finish date (when known)

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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. i centrifugation etc.	include manipulation, g	rowth, storage, disposal,
Activity	Room	Containment Level

BMBL refers to the 5<sup>th</sup> 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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## **PART 2 RISK ASSESSMENT**

1. PROJECT TITLE		
2. OVERVIEW OF PROJECT		
2. OVERVIEW OF PROJECT  This information should provide both the scientific goals of the project and a simple explan		
so that the average member of the public can understand. If presenting the scientific goals in relation to intellectual property rights or commercial sensitivity please discuss further with		
3. HAZARDS ASSOCIATED WITH THE WORK		
If a commercial system is being used please provide a web link to the manual that include:		
details of the system. If obtained from colleagues please provide a reference with details of system.	f the ve	ctor
3.1 Is the system/s to be used based on:- Ad 2 or Ad 5	Yes	No
ii. If No please indicate what serotype is to be used	1	
3.2 Please give a general overview of system being used and the planned work (e.g. meth		
production, if animal work is to be carried out, whether the site of disablement of the virus recombinant gene expression etc). Please note that there is no need to repeat what is in s		
3.3 What is the host range of the adenovirus that will be produced?		
3.4 Is there any potential for the generation of replication competent recombinant virus? i.e common sequences in plasmids or the complementing cells lines that will allow homologous		
to occur?		
, , , , , , , , , , , , , , , , , , , ,	10001 ex	nomation

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Promoter Used		Gene to be	expressed		Activity of ge	ne/ co	onsequence
		Como to so	. одр. осооч	- 6	expression		
3.6 Is there potent co-infecting adence				integrate	d gene/ exp	ressio	n cassette b
	_	•					
Preliminary Classi	fication* (pleas	se tick):-	BSL 1	BSL	2	BSL	.3
		,					
3.7 Identify potent							
	Inhalation Yes/No	Ingestion Yes/No	Splash in eye oi Yes/No	mouth	Animal bite scratch	e or	Needlestick Yes/No
4. SUMMARY OF	THE WORK						
4. OUMINIART OF							
	rification, stora				, ,		•
include growth, pu		f sharps, produ	iction of aerosols	etc)			
include growth, pu		f sharps, produ	iction of aerosols	etc)			
i) Description of tinclude growth, pu additional controls		f sharps, produ	iction of aerosols	etc)			
include growth, pu		f sharps, produ	iction of aerosols	etc)			
include growth, pu additional controls ii) Substances us	e.g. the use o	has details of	specific organism	ŕ	er where ap	propri	iate give deta
include growth, pu	e.g. the use o	has details of	specific organism	ŕ	er where ap	propri	iate give deta
include growth, pu additional controls ii) Substances us	e.g. the use o	has details of	specific organism	ŕ	er where ap	propri	iate give deta
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5. CONTROLLING 1	THE RISKS: (I	Hierarchy of	Controls)	
	region a safe			xample if a recombinant gene wer ene from the E1 region. Please
				microbiological hazards the use c ired - Class 1, Class 2 or Class 3)
5.3 Administrative	controls:			
i. Is the work adequ		d/ segregate	ed?	
a. Is/ are the room(	s) shared wit	h other wor		y in this activity? If so give rrangements.
b. Is access to the	laboratory re	stricted? Pl	ease provide details.	
containment level re referenced. Other co	quired and an	iy other conti clude a string	gent sharps policy, ensurin	on 3.6 please specify the ocal codes of practice may be g sealed rotors are used, limiting ne level of supervision required,
	•			
	waste include	s items such		ght include cultures and culture Waste might include human
,	Detail of typ		Treatment before dispos	sal How disposed
Liquid Waste				
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Solid waste							
Clinical Wast	te						
<b>iv. Emergency Procedures:</b> These should be detailed in the local code of practice, a brief summary is appropriate here.							
appropriate nere.							
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?							
<b>5.4 Personal Protective Equipment (PPE):</b> 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		Other (specify)	,		
Yes/No	Yes/No	Yes/No					

#### 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).

## 7. OCCUPATIONAL HEALTH ISSUES

**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).

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Please indicate whether vaccination is required. All those handling receive hepatitis B virus vaccination with post immunisation monitori effective protection has been achieved.				
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:			
Name of Reviewer:				
Signature:	Date:			
Head of Department:				
Signature:	Date:			