	Safety Dep't' Use Only	Material(s) Classification
	Ref No:	
Loughborough University The Centre for Biological Engineering	CBE Use Only Ref No:BRA 148	Hazard Group 1 🖂 Hazard Group 2 🗆 GMO 🗆 HTA Licensable

FORM CBE-RA-FORM/002. Version 8.0

RISK ASSESSMENT AND PROJECT REGISTRATION FOR WORK INVOLVING BIOLOGICAL MATERIAL

PLEASE READ CAREFULLY

This form acts to register projects involving the use of Biological Agents and / or Genetically Modified Micro-Organisms, or of materials that may be contaminated with these agents. It assesses the hazards and risks associated with the project as well as identifying those at risk and the measures necessary for preventing, or controlling these risks. Please ensure that sufficient detail is provided when completing this form and that the relevant written SOPs are referenced where required. Once completed and approved, all risk assessments must be supplied to all those working within this project. The work described within this form must not commence until this risk assessment has been completed and approved and that all necessary control measures are in place.

Any changes to the work, or the persons involved, must be notified to the departmental Quality Manager (dQM). All changes requested must be recorded within the risk assessment change control form and may also need to be incorporated within an amended version of this form.

A separate risk assessment will be required for assessing risks associated with GMO activities.

Principal Investigator							
Name:	Jeroen Schmidt						
Position	PhD Student						
Department:	Centre for Biological Engineering						
School:	Wolfson school of mechanical, electrical and manufacturing engineering						

Person conducting this risk assessment						
Name:	Jeroen Schmidt					
Position	PhD Student					
Department:	Centre for Biological Engineering					
School:	Wolfson school of mechanical, electrical and manufacturing engineering					

The Pr	oject Activity		
		atial scaffold properties o	
interac	tion between cells	and embedded growth fa	actors
Refere	nce No:		
Start:	01/10/2014	End:	
		SANGTON DANIES OF THE CONTROL OF THE	

CONTRACTOR DE MONTO DE LA CONTRACTOR DE	ent Change History	
Date:	ID & Version No	Review date
30/03/2017	CBE/BRA/148	Click here to enter a date.

The following declaration must be completed and undersigned by the Principal Investigator or Person Responsible for the project

⊠All information contained in this form is accurate and comprehensive

⊠All workers involved will be instructed that their work must remain within the boundaries of this project registration & assessment ⊠All workers have been given, or will be given before they become involved, adequate training and where necessary their competency assessed

⊠All workers have, or will be before their involvement begins, enrolled with Occupational Health for health clearance where necessary ⊠It is understood that this risk assessment shall not be transferred to a third party without the PI/Supervisor/Line Manager named in this form either taking responsibility for the new activities, or ensuring that a new proposal is submitted

☑All changes to the work covered by this form will be reassessed & the changes submitted dQM before those changes are made to the work

	ne: Jeroen Schmidt	Signature:	B	Motor	Date: 10-	11-2017			
urp	le = mandatory White -	for all work		Pink = cells, tis	ssues, body fluids or	Green = non-GM biological agents			
_									
1. INTRODUCTION	This section must be completed 1.1. Background & aim of project		surface effectiv	s used durin	g cell culture have mobilized proteins	er the shape and patterning of an impact on the relative used to induce cell proliferation			
*TION	1.2. Description of experimental	Mesenchymal stem cells will be cultured during a number of environments, with various surface materials, immobilized proteins an other aspects of the cellular environment. The cell culture aspect will involve adherent cell culture lasting up to several weeks, with each experiment involving several flasks and/or well plates. The exact detai will depend on the experiment. The relevant surface materials, cells, and produced proteins or extracellular matrix will be analysed at various points during the cell culture experiments using the standard protocols for the relevant							
-	1.3. Where will this work be carr	experiment. Rooms/areas: Center For Biological Engineering, lab areas							
			Building(s): Garendon Building Campus: Loughborough University						
3	NOTE: A brief background to the pro- encouraged to cover as much of thei laboratory procedures to be used and documentation i.e. protocols).	r activities with a d highlight any no all relevant par	particular n on-standard	naterial or bio laboratory op	ological agent as poss perations (these may	ible within this form. Describe			
מווד ודי	2.1. If human or animal tissues, ce 2.11.	TISSUES, CELLS, BODY FLUIDS OR EXCRETA 2.1. If human or animal tissues, cells, body fluids or excreta will NOT be used then hatch here □ and proceed to section 2.11.							
OF WORK & HAZABD IDENTIF	2.2. List all cells, tissues, body fluid Material type	and all college search of the college	e used. Fo	Species	Where will it be (include country	obtained from			
٥Ì	1. Mesenchymal stem cells 2.	Bone	e marrow	Human		United States of America)			

2004?* If No, proceed to section 2.4 2.3.1. List all HTA relevant material and indicate the source/provider (please tick all appropriate boxes) Source/Provider A=Commercial supplier; B=HTA licensed Biobank with REC approval for generic research use; C=Other **Relevant Material type** HTA licensed organisation; D=Organisation with REC approval for research use; E=Imported 1. \square A \square B \square C \square D \square E 2. \square A \square B \square C \square D \square E 3. \square A \square B \square C \square D \square E \square A \square B \square C \square D \square E Page 2 of 10

CATION

			A STATE OF THE PARTY OF THE PAR	TO A STATE OF THE PARTY OF THE	The second second second	THE RESERVE		
:	5. □ A □ B □ C □ D □ * See https://www.hta.gov.uk/policies/list-materials-considered-be-%E2%80%98rele		matorial% E20	/ 909/00 uv	ador hum	n ticcuo	act	
	2004#sthash.EliTXrB3.dpuf	vaiit	illaterial/ocz/	/080/033-u1	iuer-num	iii-tissue-	act	
				P				
	2.4. Has any material listed in section 2.2 been genetically modified	in	□Yes					
	any way?		⊠No	Ref No	:			
	If Yes, complete GMO Risk Assessment Form & provide Reference		2110					
	2.5 Has any of the material listed in section 2.2 been identified in the							
	list of cross-contaminated/ misidentified cell lines? Check HPA webs							
	(http://www.hpacultures.org.uk/media/E50/3B/Cell Line Cross Co	□Yes	[12] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4					
	aminations v6 0.pdf	tor	⊠No					
	If Yes, provide details of the route of provenance back to the origina of the cell line, together with a Certificate of Analysis; identifying the		□N/R					
	methods used to qualify the cell type.			19 7 5			and the second	
	2.6. Has any of the material listed in section 2.2 been screened for			The sur	oplier in	cludes s	safety checks and	
	infectious/communicable disease agents eg HIV, HBV, HCV, TSEs, HT	LV	⊠Yes	THE RESERVE THE PARTY OF THE PA			s when providing	
	etc. If Yes, provide details.		□No				d cells are not	
^				offered	for sale	9.		
	2.7. Will any clinical history or veterinary screening be provided?		□Yes ⊠	No □N	/R			
	2.7.1. If Yes, detail what this will include:							
	2.7.2. If Yes, will a policy of rejection of samples from diseased							
	donors be adopted? Explain:							
	2.7.3. If Yes, and for human material, how will the information be disseminated in the course of the project?					⊠N/I		
	2.7.4. If Yes and for human material, will this information be							
	anonymised?		□Yes □	No		⊠N/R		
	2.8. What is the likelihood of infection of any of this material? Consider	der	er			⊠Low Risk		
	the worst case if multiple materials are to be used.		☐High R		□No			
		Go to Q2	1	Go to	Q3.1			
	2.9. If medium or high risk of infection - name and classify the	Material	N/R					
	biological agents this material could be infected with	Agent: ACDP/Defra		N/R N/R				
					14/11			
	2.10. Describe the type and severity of the disease that can be cause	ed	Classifica N/R					
9 9	to humans or animals by each of the agents that could be present.							
	BIOLOGICAL AGENTS (i.e. micro-organisms such as bacteria, viruses	s, fui	ngi, micros	copic en	doparas	sites)		
	2.11. If non-Genetically Modified biological agent will NOT be used t	hen	hatch here	⊠ and	proceed	to sect	ion 3.1	
	2.12. List the biological agents to be used	Na	me of ager	nt S	Strain(s)		ACDP/Defra	
							classification	
	2.42 Decided to the transfer of the discount had one by							
	2.13. Describe the type & severity of the disease that can be caused to humans, animals or plants by each of the agents and if							
	relevant, the particular strains in use <i>e.g. colonisation, infection,</i>				,			
	allergy, toxin-mediated disease							
	2.14. Has any strain listed in section 2.12 been genetically							
	modified in any way?		∕es □No		Ref No:			
ř.	If Yes, complete the GMO Risk Assessment form					Y		
	with a second control of the second control			2018, 2716				
·ω	This section must be completed in all cases							
DECLARATION	CLASSIFICATION OF HAZARD GROUP							
ΙĄ	3.1. Are you confident that any non-GM organism, tissue, cell, body		His Property of the Control		Yes* - C	lassify as HG1		
Ã	component thereof covered by this assessment cannot potentially p	a threat to	humans					
ō	or cause human diseases?							
_	3.1.1. If No, can any non-GM organism, tissue, cell, body fluid, ex				t 🗆 '	Yes - Cla	nssify as HG2	
	thereof cause human disease and potentially be a hazard to hum spread to the community and for which there is usually effective			ely to				
14	treatment available?	hiol	oriyiaxis Ul			10		
	3.1.2. If No, can any non-GM organism, tissue, cell, body fluid, ex	creta	a or any co	mponen	t 📗 🕆	Yes – D O	O NOT USE	
	thoroof cause severe human disease and notentially be a serious	haz	ard to hum	anc and	Can	cult the	DCO	

	that may spread to the community, where effective prophyla not be available?	ixis or treat	ment may or may	, /						
	3.2. Do any of the materials contain pathogens or toxins covered and Security Act?	e ⊠No □Yes – DO NOT U Consult the DSO	SE							
		*NOTE: PLEASE READ CAREFULLY You must only answer 'YES' to question 3.1 if you believe that you have sufficient information to be confident that the material(s) covered by this risk assessment would be of no or of negligible risk to human health even in the event of a total breach of containment all the								
	ASSIGNMENT OF CONTAINMENT LEVEL			CL2						
	PLEASE READ CAREFULLY									
	The laboratory Containment Level is directly related to each of the hazard rating) should normally be handled in CL1 facilities (mining facilities. All projects using HG1 and/or HG2 biological material within the CL2 CBE Tissue Engineering Laboratory Unit or within supplementary to worker protection; this includes the need to en Class II safety cabinet) and to impose a quality assurance discipling	num level o (s) will be o the CL2 CBI sure resear	of containment), a carried out under E Laboratory Unit	nd likewise HG2 in CL2 Containment level 2 (a at Holywell for reasons	CL2) s					
4.	All relevant parts of this section must be completed									
NA.	TISSUES, CELLS, BODY FLUIDS OR EXCRETA									
NATURE OF THE WORK	4.1. If human or animal tissues, cells, body fluids or excreta will 4.2. Will any culturing of the material described in section 2 take place? If Yes, describe which cell(s) will be cultured and under what conditions.	NOT be use ⊠Yes □No	Mesenchymal s	e and proceed to Qestem cells will be cultuulture conditions (asepnoubator with atmospl	red using tic work					
	4.3. If culturing, could HIV permissive cells be present*? If Yes, describe the cells and for how long these cultures will be allowed to grow.	□Yes □No								
	4.4. If culturing, what is the maximum volume of culture grown?	Per vessel: Cells are seeded at 5000 cells/cm2, and allowed to grow up to 80% confluence. Flasks will be either 75 or 175 cm2, well plates will be 24 or 96 wells per plate. Number of vessels The number of vessels will depend on the experiments will involve one or two flasks, or less than a dozen well plates at a time.			□ N/R					
	4.5. Will the tissues, cells, body fluids or excreta be manipulated in any way that could result in the concentration of adventitious biological agent present? <i>If Yes, explain</i> .	⊠Yes □No		ts such as bacterial info ly multiply during cell o						
	4.6. Will any of the tissues, cells or fluids be donated by you or your colleagues working in or with access to the labs?	Yes□ N	0 🗵							
	4.6.1. If Yes, detail who will provide these				□ N/R					
	4.6.2. If Yes, detail how the materials will be used and the special risks involved*		18 7 E		□ N/R					
**	4.6.3. If Yes, provide justification for not using material from another safer source e.g. National Blood Service	4. 2			□ N/R					
	4.6.4. If Yes, how will confidentiality be assured?				□ N/R					
ż	4.6.5. If Yes, has written consent been obtained from the donor?									
	4.6.6. If Yes, has Ethics Committee approval been obtained?	Yes□ No								
	*NOTE 1: If unsure seek advice. Refer to CBE Code of Practice for details **NOTE 2: Workers MUST NEVER culture, deliberately transform or mode otherwise associated with the experimental work. This presents a particle serious consequences as cells would essentially circumvent the normal particle.	dify their ow ular hazard s	n cells or cells from since any self-inocul	ation injury could have p						
	BIOLOGICAL AGENTS (i.e. micro-organisms such as bacteria, vire	uses, fungi	, microscopic end	oparasites)						

If non-Genetically Modified biological age	The second secon				
4.8. Describe ALL route(s) of infection (rel to the laboratory setting) and the minimu		Name of agent	Route(s)	iviinimum	infectious dose
infectious dose(s), if known					
4.9. What is the highest concentration an	d I	Per experiment:	Total stored	:	
volume of agent(s) to be worked with?					2 4x 62 700 ¥ 750 3
4.10. Are there any known drug resistance amongst the strains to be used? If Yes, ex					
what these are and the consequences	pidiii				
4.11. What forms of agent will be used e.	The state of the s			`\	
spores, vegetative forms and are there ar					
issues over the robustness of these partic forms e.g. resistance to disinfectants or	ular				
increased stability on dry surfaces?					
4.12. What will be the most hazardous					
procedure involving the use of this mater	ial?				
All questions in this section must be anso	wered and	d further details supp	lied when indicat	red	
Risk		If Yes, how will t	his be controlled	?	Reference to SOPs/ other
		All more will tal-	place in Piological C	afatu cahinata	documentation SOP009
5.1. Might infectious droplets, aerosols or splashes be created, either deliberately or by accident?	, either to protect the user and other lab occupants.				SOPOO9
5.2. Will this material be transported			olates that are move		
within the laboratory e.g. between BSC	⊠ Yes		d when closed. Othe ving to prevent acci		
& incubator?		accidents.	ving to prevent ucci	acritar trips or	
5.3. Will this material (including waste)	V Vos		otentially contamina		SOP003 SOP024
be transported locally between sites on campus but outside the laboratory?			biological material is sterilized by autoclaving before removal from the lab. Living materials will not leave		
		the labs.		* *	SOP025
5.4. Will material(s) listed in sections 2.2		N/R			*Provide
or section 2.3 be shipped to organisations elsewhere in the UK or					reference to
abroad?					relevant Packir
	☐ Yes ☐ No		*		Instruction
*Refer to WHO guidance for transport of infectious substances:					
http://apps.who.int/iris/bitstream/10665/149288					
/1/WHO HSE GCR 2015.2 eng.pdf?ua=1					2 N 2
5.5. Will this material be received from			will be used for the		
organisations elsewhere in the UK or	⊠ Yes		it in the CBE. Both th Irchases are provide		
abroad?	□ No		Quality is checked o		
		19112455	age to the packagin	g or other	8 8
5.6. Will this material be stored?	N V	details that might These cells will be	warrant suspicion. kept in the vapour p	hase of liquid	
	☐ No	Nitrogen. Cells are	stored in Synth-A-F	reeze to	
5.7. Will infectious material be			ge during Nitrogen s ealed rotors and bu		
centrifuged?		always be used		CACLO WIII	
	☐ Yes ☐ No		e rotors/buckets wil		
	EJ INO	509955.570	dures in place to de	al with leaks	
5.8. Are biological samples to be		or spillages in the c	centrifuge or rotor ultured in static incu	ıbators.	
cultured in an incubator?	✓ Yes✓ No	During incubation,	all flasks/plates are		,
F.O. And alcoholic beautiful beautif	∐ No	to prevent spills.	ed to add or remove	various	*,
5.9. Are sharps to be used at any stage during this activity?	⊠ Yes		ea to aaa or remove culture media. Spe		w v
anning tine detivity;	□ No		vent exposed ninett		,

the user.

× **	5.10. Are animals to be used in this project?		N/R		
8	(If Yes, describe procedures involved, if shedding is possible and additional precautions or training required)	□ Yes ⊠ No	N/R		
	5.11. Will a fermenter/bioreactor be used to culture a biological agent or material?	☐ Yes ⊠ No	N/R		
2 2	5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)?	☐ Yes ⊠ No	N/R	. 1	
5	5.13. Is there any of the following to be used in conjunction with this project? If Yes, provide details	⊠ Yes □ No	 ☑Liquid nitrogen: for storage of ☐lonising radiation: ☐Carcinogens/mutagens ☒Toxins: various chemicals are usulture surfaces. No toxins are usulture as the cell culture. ☐Lone working 	sed to create cell	
a.	5.1.4. Are there any conditions associated with the hazards described in section 5.13 that require additional control measures?	⊠ Yes □ No	All hazardous chemicals used dur must be covered by a risk assessn evaluation.		
6.	All questions in this section must be answ	vered			
	Control measure		Reference to SOPs/ other documentation		
PPE AND HYGEINE	6.1 When will gloves be worn?6.2 What type and where will they be stored?6.3 When will laboratory coats be worn and what type are these?6.4 Where will lab coats be stored and	Standard locations in Lab coats All lab coats Lab coats	Il be worn at all times during won itrile gloves, which are available in the CBE labs. will be worn at all times during wats are designated for one individual are stored in the first change for	e at multiple work in the lab. dual. r the CBE labs,	SOP037
	what are the arrangements for cleaning or disposal? 6.5 Is any other type of PPE to be used? If Yes, provide details	arranged I During cer required.	eaned in bulk by lab manageme by lab management, if necessary tain parts of the experiment, sa	fety glasses are	
	6.6 Describe the lab hygiene facilities available and where they are located	The CBE la	sh stations	n e e	
7.	All questions in this section must be answ	vered		对于包含 类较	
	7.1. How will waste be treated prior to d	isposal			
WASTE	(Note that all differently treated wastes must be included e.g. if some liquid is autoclaved, but others not, then describe both)	Treatmen	t prior to disposal	Is the treatment validated?	Reference to SOPs/ other documentation
Υ,	Liquid waste	Autoclavir	ng	⊠Yes □No	SOP003 SOP024 SOP025
	Solid waste	Autoclavir	ng	⊠Yes □No	SOP023 SOP023 SOP024 SOP025
	Other (specify)		emical waste is not treated sposal, but this waste does not	□Yes ⊠No	

7.2. If waste is	to be autocl	aved confirm the follo	wing:					
All cycles have I load types used		d for the actual	Yes ⊠ No □	If Yes, documentary evident of the validation must be available	ce SOP024 SOP025			
The successful of checked prior to		f every load is	Yes ⊠ No □		SOP024 SOP025	21		
7.3. How will I	iquid waste b	e disposed of?						
To drain?			Yes □ No ⊠					
As solid waste?			Yes □ No ⊠					
Other (specify)?	}		Yes ⊠ No □		Following autoclaving, waste is disport of in the Ora Waste disport oute.	oosed inge		
7.4. How will s	solid waste be	e disposed of?			16 17 18 18 18 18 18 18 18 18 18 18 18 18 18 1			
Categorisation			Waste stream: Colour Code	Disposal method				
Sharps Sh			Orange	Yellow/Orange lidded sharps bin > autoclave sterilisation if known or potentially infected > clinical waste disposal (incineration)				
☐ Sharps contact Cytostatic mate		n cytotoxic or	Purple	Yellow/Purple lidded Sh disposal (incineration @				
☐ Human body	parts, organ	s, including blood bags reta that have been ne site	Orange	Disinfection or sterilisat Yellow/Orange lidded ri tissue bins > clinical was #Human tissue waste n separate containers fro and labelled 'HTA waste	ion in the lab site > gid one way sealed te disposal (incine nust be placed in m non-human was	d ration)		
PROPERTY AND ADDRESS OF THE PROPERTY OF THE PR		recognisable parts before leaving the site	Orange	Disinfection or sterilisat Yellow/Orange lidded ri tissue bins > clinical was	gid one way sealed	d ,		
☐ Potentially or known infected lab wastes contaminated or potentially contaminated with cytotoxic or cytostatic material that have NOT been pre-treated before leaving the site			Purple	Yellow/Purple clinical waste bags > clinical disposal (incineration)				
		cted lab wastes that before leaving the site	Yellow	Yellow clinical waste bad disposal (incineration)	gs > clinical waste			
		ected lab wastes that e leaving site	Orange	Disinfection or sterilisat orange clinical waste ba disposal (incineration)				
All questions in	this section	must be answered						
			g regimes in place fo	or the following laboratory e	quipment?			
If Yes, det	tail frequency	Inspection, servicing	Cleaning/ disinfection	Monitoring/ R	eference to SOPs	N/R		
Centrifuges	⊠Yes □No	Weekly	Weekly	CONTRACTOR OF THE PROPERTY OF STREET CONTRACTOR OF THE STREET CONTRACTOR OF THE STREET	OP134	· .		
BSCs	⊠Yes □No	Weekly	Weekly	Weekly	OP155			
Autoclaves	⊠Yes □No	Monthly, annually	Daily, weekly, as needed	1 When used	OP024 OP025			
Incubators	⊠Yes □No	Weekly	Weekly	Weekly	OP079			

	LN2 Stores	⊠Yes □No	Twice wee	kly	Twice v	veekly	Twice weekly	SO	P013	
	Freezers	⊠Yes □No	Weekly	· .	Weekly		Weekly	SO	P016	
	Fridges	⊠Yes □No	Weekly	В	Weekly		Weekly	SO	P016	
	Others (specify)	□Yes □No		8			* ************************************	×		
9.	All questions in th	nis section	must be ansv	vered						
180	9.1. Have all project research workers under taken safety training for working with hazardous or potentially hazardous biological materials and agents at CL2?									
TRAINING	Name of research	THE RESERVE OF THE PARTY OF THE	its at CL2?			raining eted or will apleted	If No ,please sta	ate why		
	Jeroen Schmidt		⊠Ye:	s 🗆 No	10-10-2					
	8		100 GEORGE	s 🗆 No			- Ar	2		
	, T		□Ye	s 🗆 No				2.8		
6.	.e	P E	□Ye	s 🗆 No		i i	8	in .	9	
	9.	2	□Ye:	s 🗆 No		21		28	9	
	9.2. If work involve training	es HTA 'Rel	levant Materi	al', confir	m that all	project res	earch workers have I	undertak	en HTA	⊠N/R
	Name of research			Date HT comple	ted	completed or will be		No ,please	state why	
	USEC STEEL STORE OF THE STORE		□Ye:	s 🗆 No	·		i iii ii			
8	,		20000 90000000	s 🗆 No	9			0	i i	-
	4		Aut of the state of the state of	s 🗆 No			5 N 5			
		*)	□Ye	s 🗆 No			9	- 5	1	
	¥		□Ye	s 🗆 No		2				
101		ACC 18 15 15 15 15 15 15 15 15 15 15 15 15 15							**************************************	
10.	All questions in th	is section	must be ansv	vered						
EN	10.1 Are proce	dures in n	lace for deali	ng with sr	nillage of i	nfectious o	r potentially infectiou	ıs məter	اما	
MER	Equipment	caures in p	lace for acam	is with sp	Jillage of t			as mater		N/R
/IERGENCY PROCEDURES	Within the BSC			Reference to SOPs ⊠Yes□No SOP038						
NCY	Within the centrifu	uge		The second secon	es 🗆 No	SOP038			1)	
PR	Within the laborat		tside any	ATTEMPT TO STATE OF THE PARTY O	es 🗆 No	SOP038			2	
OCI	primary control m	easure e.g.	. BSC				ş			
DU	Outside the labora	atory		□Ye	□Yes□No					
RES	10.2. Describe	the proced	lures in place	for an ac	r an accidental exposure				Reference to SOPs	
	Immediate action			wate met Ence	For direct contact, wash the affected area using water/soap, eye-wash equipment, or other methods as relevant. Encourage bleeding in case of a sharps injury. Seek medical attention.					
	When and whom to report the incident tl			the The	Lab manager, first aider, occupational health unit if the accident occurs during normal working hours. The hospital emergency department in case first aid is not available, such as out-of-hours.				SOP038	
11.	All questions in th	is section	must be ansv	vered		2				
									Reference/S	SOP
ACCESS	11.1. Is the lab(s) adequately separated from other areas (e.g. offices)? If No, explain			⊠Ye	es 🗆 No					

3						9		
	11.2. Is the lab(s) or other work areas shared with other users not involved in the project? If Yes, explain who and what procedures are in place to control any risk to them.	⊠Yes □No						
e.	11.3. Describe the measures in place to ensure that hazardous biological agents or material is secure	required only be e	training. T ntered usi	ted to those who complete the he labs and nearby offices can ng access cards or when ose with access.				
н.	All questions in this section must be answere	d						
	12.1. All workers involved with handling unscreened blood, blood products and other tissues are recommended to have Hepatitis B immunisation. Have all workers involved in this project been immunized? ☑ Yes ☐ No							
Ā	12.2. Is health surveillance required?					□Yes ⊠No		
					ACCEPT TACK TO CHARTMENT AND			
12. OCCUPATIONAL 13. NOTIFICATIONS	All questions in this section must be answered							
	13.1. Are any of the cells, tissues or fluids covered by the Human Tissue Act (HTA) under the University HTA Licence?		□Yes ⊠No	If Yes, provide Licence No.				
SNOITA	13.2. Are any of the cells, tissues or fluids obtained a HTA licensed biobank with REC approvageneric research use?		□Yes ⊠No	If Yes, provide details (including a evidence of approval.	dates) and	l reference to		
	13.3. Does this work have ethical approval from a recognised NHS Research Ethics Committee?		□Yes ⊠No	If Yes, provide details (including dates) and reference to evidence of approval				
	13.4. Does any of the work require approval from the University Ethical Committee?		□Yes ⊠No	If Yes, provide details (including dates) and reference to evidence of approval.				
	13.5. Do any of the materials require approval for use from the UK Stem Cell Bank Steering Committee (MRC)? (e.g. embryonic stem cells sourced from UK sources but not available through the UK Stem Cell Bank)		□Yes ⊠ No	If Yes, provide details (including dates) and reference to evidence of approval.				
	13.6. Do any of the materials or biological agents listed require any other licenses? (e.g. HSE notification under COSSH; Home Office notification under anti-terrorism, crime and security act; Defra/SAPO license for import of animal products and pathogens etc.		□Yes ⊠No	If Yes, provide details (including of evidence of approval.	dates) an	d reference to		
1			· ·	1				
12	All relevant approvals must be completed be	fore work	is started					

For work involving HG1 biological agents or materials: Review and approval is required by the departmental Quality Manager or an authorised, designated member of CBE staff before the work begins. A signed copy of this form must be sent to the University Safety Office. NOTE: Explicit approval will also be required from the Departmental Biological Safety Advisor and the University Biological Safety Officer before work begins, if you answered 'Yes' to Q13.5.

For work with HG2 biological agents or materials: Explicit approval is required from the Departmental Biological Safety Advisor and the University Biological Safety Officer (or deputy) before work begins.

For all work involving HTA 'Relevant Material': If you answered 'Yes' to Q13.1, explicit approval will also be required from the departmental Person Designate.

APPROVALS

If the biological agent has been Genetically Modified this form, (approved by the relevant authority, as above) should be submitted with the GMO risk assessment to the Departmental Biological Safety Advisor and both forms forwarded to the LU GM Safety Committee for final approval.

NAME:	SIGNATURE:	DATE:
 Departmental Quality Manager or other authorised personnel (please indicate position): 		
2. Departmental Person Designate (as applicable):		
3. Departmental Biological Safety Advisor:	RITupl	24/11/2017
R I Temple		g e
4. University Biological Safety Officer (or Deputy):		
	2	