	Sa	Material(s) Classific	cation	
Loughborough University	Reference Number:		Hazard Group 1	\checkmark
			Hazard Group 2	
Biological Risk Assessment		CBE Use only	GMO	
	Reference Number:	CBE BRA 203	HTA Licensable	

FORM CBE-RA-Form/002 Version 1.0

RISK ASSESSMENT AND PROJECT REGISTRATION FOR WORK INVOLVING BIOLOGICAL MATERIAL

PLEASE READ CAREFULLY	The following declaration must be completed and undersigned by
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.	 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.
Any changes to the work, or the persons involved, must be notified to the authorised person. 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.	 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
A separate risk assessment will be required for assessing risks associated with GMO activities.	changes submitted to the authorised person before those changes are made to the work.

	Principal Investigator		Person conducting this risk assessment
Name	Elizabeth Ratcliffe	Name	Rod Dring
Position	Senior Lecturer	Position	Cell Culture Technician
Department	Chemical Engineering	Department	Chemical Engineering
School	AACME	School	AACME

The Project Activity						Others involved i	n the wc	ork	
Project 1 Investigating quality of C2/C12 cell cultures. Cells will be cultured and quality determined through proliferation, viability, and morphology measurements. Project 2 Investigating the release of volatile organic compounds (VOCs) from C2/C12 muscle cells with or without anabolic steroid treatment. The effects of				Cells igh with fects of ability,	Nar	nes	Nick Crompton Euan Murray Martin Lindley		
Reference No Start Date	Imber En	d Date	May 2022						
Name	R.A. Dring		Signature	M	Eing.	Di Di Da	gitally signed by Rod ring ate: 2022.01.27 11:10:23 Z	Date	27 Jan 2022

1. INTRODUCTION								
1.1 Background & aim of project		Bio Engineering Culture and Mar Project 1: Comp Project 2: Gas ch	io Engineering MSc student project work. Culture and Manipulation of C2/C12 mouse muscle cells, followed by analysis appropriate to the project. Project 1: Comparison to human equivalent cell attributes. Project 2: Gas chromatograph head-space analysis of volatile organic compounds (VOC's) from these cells					
1.2 Description of experimental proced	lures	Project 1 Investigating quality of C2/C12 cell cultures. Cells will be cultured according to literature standards and quality determined through growth measurements; proliferation, viability, and morphology using microscopy and nucleocounter equipment according to standard procedures. Further measurement techniques may be incorporated at an advanced stage of the project and a risk assessment review will be performed for inclusion of additional techniques, in brief the technique will be flow cytometry analysis of cell markers or IHC staining and microscopy according to standard procedures. Project 2 Investigating the release of volatile organic compounds (VOCs) from C2/C12 muscle cells with or without anabolic steroid treatment. Cells will be cultured to literature standards with and without anabolic steroid treatment and effects determined through growth measurements; proliferation, viability, and morphology using microscopy and nucleocounter equipment according to standard procedures. Once cell culture techniques have been established and initial growth effects of steroids analysed, a further measurement technique will be incorporated to enable collection of cell culture headspace samples for analysis of VOCs by mass spectrometry. A risk assessment review will be performed for inclusion of this additional technique, in brief the headspace samples are collected from cell culture flasks in a BSC and the air-samples (not the cells) are transferred to chemistry for analysis.						
1.3 Where will this work be carried out?	?	Rooms/areas	H25					
		Building(s)	CBE					
2.1 Human or animal tiss	ues, ce	lis, body flui	ds or excreta will b	e used in this project				
2.2. List all cells tissues body flu	uids an	d evereta to b	e used Eor cells inc	licate primary continuous or finite				
Material ture			Crossies	Where it will be obtained	l from			
	Skeleta	Il Muscle	Maura	(Include country of ori	gin)			
	(Thigh)				storage			
2.3 Material(s) listed in se	ection	2.2 above are	e considered to be	relevant material' under the Human	Tissue Act 2004.			
2.11 Biological agents wi	ll be us	sed in this pr	oject					
	_	3. 0	LASSIFICATION OF	HAZARD GROUP				
3.1. Are you confident that any non-GM cannot potentially pose a threat to hum	organisi nans or ca	m, tissue, cell, bo ause human dise	dy fluid, excreta or any co ases?	mponent thereof covered by this assessment				
3.1.1. Can any non-GM organism, tissue, cell, body fluid, excreta or any component thereof cause human disease and potentially be a hazard to humans but is unlikely to spread to the community and for which there is usually effective prophylaxis or treatment available? (Ves - Classify as HG2)								
3.1.2. Can any non-GM organism, tissue, cell, body fluid, excreta or any component thereof cause severe human disease and potentially be O Yes a serious hazard to humans and that may spread to the community, where effective prophylaxis or treatment may or may not be available?								
3.2. Do any of the materials contain pat	3.2. Do any of the materials contain pathogens or toxins covered by the Anti-Terrorism Crime and Security Act? Yes Schedule 5							
ASSIGNMENT OF CONTAINMEN	T LEVE	L			HG1			

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.	YesNo	C2C12 myocyte cells will be cultured in sealed T25/75/175 flasks in a HeraSafe 150i incubator at 5% CO2 and 37C
4.3. Could HIV permissive cells be present*? If Yes, describe the cells and for how long these cultures will be allowed to grow. If unsure seek advice. Refer to CBE Code of Practice for details on additional precautions.	○ Yes Ø No	
4.4. What is the maximum volume of culture grown?	Per Vessel	35
	Number of vessels	4
4.5. Will the tissues, cells, body fluids or excreta be manipulated in any way that could result in the	O Yes	
concentration of adventitious biological agent present? If Yes, explain.	🕢 No	
4.6. Will any of the tissues, cells or fluids be donated by you or your colleagues working in or with	O Yes	
access to the labs?		
	•	•

5. RISKS AND CONTROL MEASURES						
Risk		How will this be controlled?	Reference to SOP's / Other documentation			
5.1. Might infectious droplets, aerosols or splashes be created, either deliberately or by accident?	✓ Yes○ No	The most likely event to generate aerosols is during pipetting or aspirating. These actions will only take place in a Class II biological safety cabinet (BSC) (HeraSafe KS)	SOP009 Use and Maintenance of Herasafe KS Class II BSC			
5.2. Will this material be transported within the laboratory e.g. between BSC & incubator?	YesNo	Flasks containing cells will be transferred between the incubator and the BSC for manipulation. This should be conducted using secondary containment. Liquid extracts from these flasks will be transferred between the BSC and the microscope and centrifuge.	SOP005 Storage and Transport of Biological Agents			
5.3. Will this material (including waste) be transported locally between sites on campus but outside the laboratory?	YesNo	headspace samples are collected from cell culture flasks in a BSC and the air- samples (not the cells) are transferred to chemistry for analysis. This will be done using secondary containment. Cells will not be transported.	SOPO005 Storage and Transport of Biological Agents			
5.4. Will material(s) listed in section 2.2 or section 2.3 be shipped to organisations elsewhere in the UK or abroad?	○ YesØ No					
5.5. Will this material be received from organisations elsewhere in the UK or abroad?	○ YesØ No					
5.6. Will this material be stored?	YesNo	Long term storage cell lines will be stored in LN2 cryo-stores, further cell stocks will be sored in sealed vials in secondary containment in the -80 freezers.	SOP013 Use and Maintenance of Liquid Nitrogen Stores			
5.7. Will infectious material be centrifuged?	YesNo	The material will be centrifuged as part of the cell culture process. The material is not thought to be infectious.	SOP088 Use and Maintenance of the Centrifuges			
5.8. Are biological samples to be cultured in an incubator?	✓ Yes○ No	Static 5% CO2 37°C Incubator Leaks and/or spillages will be dealt with according to approved CBE SOPs which specifically detail methods to prevent, contain and respond to leakages and spillages in an incubator	S0P38 Biological Spill Response SOP114 Use and Maintenance of the			

Risk			How will this be controlled?	Reference to SOP's / Other documentation
				Heracell CO2 Incubators
5.9. Are sharps to be used at any stage during this activity?	YesNo	Pipette tips will be used dispose of into yellow lig incineration.	to dispense materials. The used pipette tip will be dded yellow sharps containers for autoclaving &	SOP003 Disposal of Biological Waste
5.10. Are animals to be used in this project?	○ YesØ No			
5.11. Will a fermenter / bioreactor be used to culture a biological agent or material?	○ YesØ No			
5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)?	○ YesØ No			
5.13 Are any of the following to be used in conjunction with the project?	Carcinogen or Mutagen			
You must complete a cryogen risk assessment before work begins and add the reference here.	Liquid Nitrogen	Students may have storing their sample supervised.	limited exposure to LN2 when retrieving/ es in long term storage. This activity will be	SOP013 Use and Maintenance o
	Lone working	_		
5.14. Are there any conditions associated with the hazards described in section 5.13 that require additional control measures?	○ Yes Ø No	_		
		6. PPE AND HY	(GENE	
Control Measure	Details			Reference to SOPs / other documentation
6.1 When will gloves be worn?	Latex powde nitrile powde in designate Heat resistar room, CBE la	r free gloves for general cel er free gloves for general us d change rooms/ point of e ce gloves will used when re boratories. Blue insulated g	Il culture located in all labs and change rooms. Disposabl we will be worn at all times in the laboratory and are store ntry into the lab. A moving objects from the autoclave, kept in the autoclav loves will be worn when working with Liquid Nitrogen.	e CBE code of practice, SOP037 Use of Personal Protective Equipment
				CBE code of

			Reference to SOPs /
Control Measure	Details		other
			documentation
6.1 When will gloves be worn?	Latex powder free gloves for general nitrile powder free gloves for general in designated change rooms/ point o Heat resistance gloves will used when room, CBE laboratories. Blue insulate	CBE code of practice, SOP037 Use of Personal Protective Equipment	
6.2 What type and where will they be stored?	Nitrile	In Lab and in Changing Area	CBE code of practice, SOP037 Use of Personal Protective Equipment
6.3 When will laboratory coats be worn and what type are these?	Howie style Lab coats must be worn at all times when inside the CBE laboratories.		
6.4 Where will lab coats be stored and what are the arrangements for cleaning or disposal?	Lab coats are stored in the "first change" area . Non-disposable lab coats are autoclaved and washed on a monthly basis. Disposable lab coats are disposed through the Yellow route for non-autoclaved waste incineration	Lab managers arrange monthly laundry for lab coats	CBE code of practice, SOP037 Use of Personal Protective Equipment

Control Measure	Details		Reference to SOPs / other documentation
6.5 Provide details of any other types of PPE to be used?	Shoe covers are worn at all times wit Safety glasses will be worn for specifi If working with cryogens, appropriat If working with autoclaves, appropriat	hin the CBE laboratories. ic tasks or when working with hazardous material e gloves and face shields must be worn ate gloves, mask and apron must be worn.	CBE code of practice, SOP037 Use of Personal Protective Equipment
6.6 Describe the lab hygiene facilities available and where they are located	Hand wash facilities and eye wash stations are available in the change rooms , H34 & laboratory vestibules of the CBE laboratories.		
6.7 Where are the first aid boxes and emergency spill kits located?	First aid boxes are located in the office. Biological Spill kits are located in change rooms and H31. Chemical spill kits are in the first change & H34.	Biological Spill kits are located in change rooms and H31. Chemical spill kits are in the first change & H34.	

7. WASTE

7.1 How will waste be treated prior to disposal

(Note that all differently treated wastes must be included e.g. if some liquid is autoclaved, but others not, then describe both)	Treatment prior to disposal	Is the treatment validated?	Reference to SOPs / other documentation
✓ Liquid waste	All cell containing liquid waste to be treated with 1% Virkon solution and left for 24hrs prior to disposal. Non-cell containing liquids (eg. chemical solutions) will be disposed via the appropriate waste stream.	✓ Yes○ No	SOP003 Disposal of Biological Waste SOP039 Storage, Handling and Disposal of waste chemicals
Solid waste	There is no expected cell containing solid waste being produced. Used plastic-ware used in the laboratories will be autoclaved and disposed of via the Orange waste stream for incineration.	YesNo	SOP003 Disposal of Biological Waste
Other (Specify)			
7.2 Is any waste being autoclaved?		YesNo	SOP003 Disposal of Biological Waste
All cycles have been validated for the actua (If Yes, documentary evidence of the validatio	l load types used? on must be available)	YesNo	SOP025 Use and Maintenance of the Systec VX-95 Autoclaves
The successful completion of every load is c	checked prior to disposal?	✓ Yes○ No	SOP025 Use and Maintenance of the Systec VX-95 Autoclaves.Print out from each load is checked, recorded and stored.
7.3 How will liquid waste be disposed of?			
✓ To drain?	Virkon 24hr treated waste will be flushed with running water	YesNo	SOP003 Disposal of Biological Waste SOP039 Storage, Handling and Disposal of waste chemicals
As solid waste?			

7. WASTE							
Other (Specify)							
7.4 How will solid waste be	disposed of?						
(Categorisation			Waste stream colour code	Disposal method (Edit as required)		
✓ Sharps				Orange	Yellow/Orange lidded sharps bin > autoclave sterilisation if known or potentially infected > clinical waste disposal (incineration)		
Sharps contaminated with cytotoxic or cytostatic material							
Human body parts, organs, including blood bags and blood preserves and excreta that have been pretreated before leaving the site							
Animal body carcasses pretreated before leav	Animal body carcasses or recognisable parts that have been pretreated before leaving the site						
Potentially or known infected lab wastes contaminated or potentially contaminated with cytotoxic or cytostatic material that have <u>NOT</u> been pretreated before leaving the site							
Potentially or known infected lab wastes that have NOT been pretreated before leaving the site							
Infected or potentially infected lab wastes that <u>HAVE</u> been pretreated before leaving site			Orange	Disinfection or sterilisation in the lab site > orange clinical waste bags > clinical waste disposal (incineration)			
8. MAINTENANCE							
	Inspection / Servicing Clea			ning / Disinfection	Monitoring / Alarms	Reference to SOPs	
	Frequer	ncy		Frequency	Frequency		
✓ Centrifuges	Weekly inspection during lab clean. Serviced every 2 ye Centriservice	s carried out ears by	Perform relevant for dama	ed according to SOP .Pre safety checks age.	Centrifugation will stop immediately in the case of an alarm.	SOP004 General laboratory housekeeping SOP088 Use and Maintenance of the centrifuges	
√ BSCs	Weekly inspection during lab clean. Serviced every 12	s carried out months	Weekly clean: 1 in 20 Chemgene spray then 70% IMS Before and after use: Chemgene wipes and 1:50 chemgene spray then 70% IMS		Alarms are present on the BSCs to inform if the sash is not correctly positioned. The display in the BSC also detailed the level of air flow which is monitored and recorded on every use.Abnormal air flow will trigger the alarm.	SOP009 Use and Maintenance of Herasafe KS Class II BSC SOP004 – General laboratory housekeepingS OP104- Use and Maintenance of HERASAFE KS Class II re-circulating BSCs	
Fume Hoods							
✓ Autoclaves	Lab managers org. maintenance, repa annual certification fume cupboard by authorised contrac personnel	anise the hirs and n of the r trained and ct / service	Autoclaves have weekly and monthly cleaning as detailed in SOP.		The usage is recorded each time it is used and whether issues occurred. The autoclave alarms when a cycle fails	SOP025 Use and Maintenance of Systec VX-95 Autoclave CBE045 SOP024 Use and Maintenance of Systec VX-95 Autoclave CBE044	

8. MAINTENANCE							
✓ Incubators	Inspection during weekly lab duties. Monthly clean by technicians. Decontamination is accordance with SOP.		nicians.	Alarms triggered for incorrect temperature and CO2 concentration		SOP114 Use and Maintenance of the Heracell CO2 Incubators	
Liquid N ₂ Stores							
✓ Freezers	Inspected / defrosted and cleaned every 6 – 12 months Automated continuous temperature checking with text alerts (KoolZone) . Monthly freezer temperature checks with calibrated thermometer.			On board alarms and thermocouples linked to monitoring system.		SOP016 "Use and maintenance of Fridges and Freezers"	
Failure contingency plan	There is a back-up -80 freezer available for single unit failure and agreements with other Schools for total loss of freezer provision						
✓ Fridges	Inspected / defrosted and cleaned every 6 – 12 months Automated continuous temperature checking with text alerts (KoolZone)2 % Neutracon/ 1% Virkon followed by 70% IMSOn board alarms and thermocouples linked to monitoring system.SOP016 "Use and maintenance Fridges and Freezers"			SOP016 "Use and maintenance of Fridges and Freezers"			
Failure contingency plan	There is a 5C cold room available						
Others							
9. TRAINING							
Name of researcher Had Training Date training completed (or will be completed) If no, state why					If no, state why		
Nick Crompton					Training will be completed as part of lab induction prior to starting		
Euan Murray O Yes No				Training will be completed as part of lab induction prior to starting			
9.2. This work involves HTA 'Relevant Material', confirm that all project research workers have undertaken HTA training							
10. EMERGENCY PROCEDURES							
10.1 Are procedures in place for dealing with spillage of infectious or potentially infectious material							
Equipment Reference to SOPs						nce to SOPs	
Within the BSC				S0P38 Biological Spill Response			
Vithin the centrifuge				S0P38 Biological Spill Response			
Within the laboratory, but outside any primary control measures (e.g. BSC)				S0P38 Biological Spill Response			
Outside the laboratory				S0P38 Biological Spill Response			

Are procedures in place for the security of these HTA Relevant samples?		10.	EMERGENCY PRO	DCEDURES			
Loss or theft of samples (including whilds in transit) Loss or thete of samples (including whilds in transit) Incorrect disposal of samples 10.2 Describe the procedures in place for an accidental exposure Soft accessibility of samples (incorrect disposal of samples (incorrect disposal of samples) 10.2 Describe the procedures in place to ensure that access to EU the event of a requirement will color disposal of the procedure (incorrect disposal of the procedure) Part to SOP: Soft accessible the incodent (incorrect the sader. Incorrect the accident) Part to SOP: Soft accessible the incodent (incorrect) (incorect) (incorrect) (incorrect) (incorect) (incorrect) (inco	Are procedures in place for the security of thes	e HTA Relevant samı	oles?				
	Loss or theft of samples (including whilst in transit)						
□ Incorrect disposal of samples 10.2 Describe the procedures in place for an accidental exposure Immediate action Skin-flood area with running water plus scap and water. Face-flush with eye wash for 15 minutes, fluid week and for 15 mins with cold as scribe open. Ingestion-contract first adder. In the event of a scribe open. Ingestion-contract first adder. In the event of a scribe open. Ingestion-contract first adder. In the event of a scribe open. Ingestion-contract first adder. In the event of a scribe open. Ingestion-contract first adder. In the event of a scribe open. Ingestion-contract first adder. Use Unitwood with the incident week and the incident week and scribe open. Ingestion-contract first adder. Use Unitwood week and the incident week and scribe open. Ingestion-contract first adder. Use Unitwood week and the incident week and scribe open. Ingestion-contract first adder. Use Unitwood week and the incident week and scribe open. Ingestion-contract first adder. Use Unitwood week and the incident week and scribe open. Ingestion-contract first adder. It is a scribe open. Ingestion-contract first adder. Use Unitwood week and the incident week and scribe open. Ingestion-contract first adder. Use Unitwood week and scribe open. Ingestion-contract is scribe open. Ingestin the indee open. Ingestion-contract is scr	Loss of traceability of samples			-			
10.2 Describe the procedures in place for an accidental exposure Immediate action Sim flood area with running water plus soap and water. Face fluch write, you you have plus you have plus to result find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point, ingestion: contrast find adds. The vertex of a sone point work areas shared. The vertex of a sone point, is point, and the vertex of a sone point. The vertex of a sone point, is point, and the vertex of a sone point, is point, and the vertex of a sone point. The vertex of a sone point, point, and the vertex of a sone point, point, and the vertex of a sone point. The vertex of a sone point, point, and the vertex of a sone point. The vertex of a sone point, point, and the vertex of a sone point	Incorrect disposal of samples	Incorrect disposal of samples					
Skin-flood area with running water plus soap and water. Face-flush with yee wash for 15 minutes, flush eybolit for 15 mins with cold water, hold sepone, Ingestion: context first adder, in the event of a green/ing mail.al tentotion, individuals should attend the Accident and Emergency Department/Minor Injuries Unit of the local hospital S0P38 Biological Spill Response When and whom to report the incident Immediately to laboratory management and first adders. Use University Ref to SOPs S0P38 Biological Spill Response I. I. Jurget the lab(s) adequately separated from other area (e.g. offices)? Immediately to laboratory management and first adders. Use University Ref to SOPs S0P38 Biological Spill Response I. I. Jurget the lab(s) adequately separated from other areas (e.g. offices)? Immediately to laboratory management and first adders. Use University Ref to SOPs S0P38 Biological Spill Response I. I. Jurget the lab(s) or other work areas shared with other users not involved in the project? Immediately or other work areas shared with other users not involved in the project? Ref to SOPs SOP38 Biological Spill Response II.3. Describe the measures in place to ensure that hazardous biological agents or HTA relevant material is secure Ref to SOPs SoP38 Biological Spill Response II.3. Describe the measures in place to ensure that hazardous biological agents or HTA relevant material is secure Ref to SOPs SoP38 Biological agents, water management, training requirements set by CDE management, training requirements of lab equipment and emergency	10.2 Describe the procedures in place for an accid	dental exposure		1			
When and whom to report the incident Immediately to laboratory management and first aiders. Use Universitive and the sequence of the incident is provided in the project? Software is a standard in the project? 11. Is/are the lab(s) adequately separated from other areas shared with other users not involved in the project? Image: Construct in the project is is potentially one PhD student working in the same lab, but at present it is unclear whether these regulater mems will coincide. 11.1. Jose the lab(s) or other work areas shared with other users not involved in the project? Image: Construct is is restricted to authorised users is restricted to authorised users. In order to obtain authorised user study, operators must satisfy minimum training requirements set by CBE management and Health and Safety COP), this document details specific as the new of the current Code of Practice (COP), this document details specific as specific aspresent and the CBE office at all times. Prior	Skin- flood area with runn with eye wash for 15 minu water, hold eye open. Inge serious injury requiring medical attentio and Emergency Departme	and water. Face- flush 15 mins with cold ider. In the event of a d attend the Accident it of the local hospital.	Ref to SOP's	S0P38 Biological Spill Response			
11. ACCESS Explanation References 11. Is/are the lab(s) adequately separated from other areas (e.g. offices)? There is potentially one PhD student working in the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. It is unclear whether these requirements will coincide. Work will be segregated wherever possible. Q Yes No Q Yes No Q Yes No Q Yes No Access to CBE laboratories is restricted to authorised user status, operators must satisfy minimum training requirements of lab equipment and Health and Safety Committee. Basic training modules include a detailed review of the current Code of Practice (CoP), this document details specific aspects of class 2 working in relation to handling biological agents or HTA relevant material is secure All training is documented in a personal training file, which is held in the CBE office at all times. Prior to being granted access to CBE labs, each training file, which is held in the CBE office at all times. Prior to being granted access to Laboratory. Swipe card access and key rights are given only to authorised personal training file which is held in the CBE office at all training file which is h	When and whom to report the incident	management and fi	rst aiders. Use Universi	Ref to SOPs	S0P38 Biological Spill Response	3	
11. ACCESS Explanation References 11. Is/are the lab(s) adequately separated from other areas (e.g. offices)? No There is potentially one PhD student working in the same lab, but at present it is unclear whether these requirements will coincide. 11.2. Is/are the lab(s) or other work areas shared with other users not involved in the project? There is potentially one PhD student working in the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Access to CBE laboratories is restricted to authorised users. In order to obtain authorised user status, operators must satisfy minimum training requirements set by CBE management and Health and Safety Committee. Basic training modules include a detailed review of the current Code of Practice (CoP), this document details specific aspects of class 2 working in relation to handling biological agents, waste management, training file, which is held in the CBE office at all times. Prior to being granted access to CBE laboratory. Swipe card access and key rights are give nonly to authorised personnel that have undergroue training and have							
11. Is/are the lab(s) adequately separated from other areas (e.g. offices)? Image: Construction of the second			11. ACCES	5	- tion	Defense of	
11.2. Is/are the lab(s) or other work areas shared with other users not involved in the project? There is potentially one PhD student working in the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible. Image: the same lab, but at present it is unclear whether these requirements of lab equipment and emergency procedures including spill responses.	11. Is/are the lab(s) adequately separated from ot areas (e.g. offices)?		Explan	nation	References		
Image: Construct of the second state of the second stat	11.2. Is/are the lab(s) or other work areas shared with other users not involved in the project?		There is poten same lab, but a requirements Work will be se	There is potentially one PhD student working in the same lab, but at present it is unclear whether these requirements will coincide. Work will be segregated wherever possible.			
filled appropriate risk assessments. Unauthorized personnel has no access.	11.3. Describe the measures in place to ensure the hazardous biological agents or HTA relevant mat secure	at terial is	Access to CBE authorised use status, operato requirements s and Safety Cor include a detai Practice (CoP), aspects of clas biological ager requirements of procedures inco All training is of file, which is he to being grant file must be re- management a (DSO). Restricted acce and key rights personnel that filled appropria	Access to CBE laboratories is restricted to authorised users. In order to obtain authorised user status, operators must satisfy minimum training requirements set by CBE management and Health and Safety Committee. Basic training modules include a detailed review of the current Code of Practice (CoP), this document details specific aspects of class 2 working in relation to handling biological agents, waste management, training requirements of lab equipment and emergency procedures including spill responses.All training is documented in a personal training file, which is held in the CBE office at all times. Prior to being granted access to CBE labs, each training file must be reviewed and signed off by both lab management and the departmental safety officer (DSO).Restricted access to laboratory. Swipe card access and key rights are given only to authorised personnel that have undergone training and have filled appropriate risk assessments. Unauthorized personnel has no access.			
12. OCCUPATIONAL							

12. OCCUPATIONAL					
12.1. All workers involved with handling unscreened blood, blood p	⊖ Yes				
Have all workers involved in this project been immunized?	⊘ No				
12.2. Is health surveillance required?	12.2. Is health surveillance required?				
		⊘ No			
	13. NOTIFICATIONS				
13.1. Are any of the cells, tissues or fluids covered by the Humar under the University HTA Licence?	i Tissue Act (HTA)				
13.2. Are any of the cells, tissues or fluids obtained from a HTA li with REC approval for generic research use?	censed biobank				
13.3. Does this work have ethical approval from a recognised NH Ethics Committee?	15 Research				
13.4. Does any of the work require approval from the University Committee?	Ethical				
13.5. Do any of the materials require approval for use from the U Bank Steering Committee (MRC)?	JK Stem Cell				
13.6. Do any of the materials or biological agents listed require a licenses?	any other				
14. APPROVALS					
Authorised Person	Carolyn Kavanagh Digitally signed by Date: 2022.02.07 14	Carolyn Kavanagh 1:36:08 Z			
Departmental Biological Safety Advisor					