

Loughborough University Biological Risk Assessment	Safety Department use only	Material(s) Classification
	Reference Number: <input type="text"/>	Hazard Group 1 <input type="checkbox"/>
		Hazard Group 2 <input checked="" type="checkbox"/>
	CBE Use only	GMO <input type="checkbox"/>
	Reference Number: CBE BRA 202	HTA Licensable <input checked="" type="checkbox"/>

FORM CBE-RA-Form/002 Version 1.0

RISK ASSESSMENT AND PROJECT REGISTRATION FOR WORK INVOLVING BIOLOGICAL MATERIAL

<p>PLEASE READ CAREFULLY</p> <p>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.</p> <p>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.</p> <p>A separate risk assessment will be required for assessing risks associated with GMO activities.</p>	<p>The following declaration must be completed and undersigned by the Principal Investigator or Person Responsible for the project</p> <ul style="list-style-type: none"> 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 to the authorised person before those changes are made to the work.
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Principal Investigator		Person conducting this risk assessment	
Name	Yang Liu	Name	Jialin Dong
Position	Academic Lecturer & Supervisor	Position	PhD student
Department	Centre of Biological Engineering	Department	Centre of Biological Engineering
School	Wolfson of MEME	School	Wolfson of MEME

The Project Activity		Others involved in the work	
Title	Hemocompatibility of Laser Textured Stainless Steel	Names	Dr Yang Liu
Reference Number	CBE BRA 202		
Start Date	1 Feb 2022	End Date	31 Dec 2022

Name	<input type="text"/>	Signature	<input type="text"/>	Date	<input type="text"/>
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1. INTRODUCTION			
1.1 Background & aim of project	The aims and objectives of study is going to use blood from volunteer to check the hemocompatibility of laser-textured stainless steel plate surface, in order to investigate the hemocompatibility of laser-textured stainless steel stents.		
1.2 Description of experimental procedures	<p>1. The blood will be collected from volunteer in SSEHS by qualified phlebotomist. The blood is then transfer to CBE with standard operation procedures.</p> <p>2. The laser textured sample will be autoclaved, placed in container (e.g. petri dish), and transferred to BSC. Positive control materials (black rubber or natural rubber latex or glass) and negative reference control materials (HDPE) will be disinfected through Virkon wipe and 1:50 IMS before transferring in the container (e.g. petri dish) into BSC. Pipette will be used to drop blood on the laser textured areas. The container containing blood and laser-textured samples is then transfer to the incubator for 30mins incubation.</p> <p>3. The samples will be fixed in the fume cupboard for optical microscope observation with 4% glutaraldehyde in 0.1M cacodylate buffer 1hr. Post fixation was performed with 2% Osmium tetroxide (OsO4) for 1hr at room temperature. If the samples need further SEM inspections, another method will be used. Dehydration was achieved by means of 15min rinsing stages in increasing ethanol concentration solution (30%, 50%, 70%, 95% and 100% in triplicate). Subsequently samples were soaked in three hexamethylsilazane solutions (2:1 ethanol 100% in HMDS, 1:2 ethanol 100% in HMDS and final 100% HMDS solution) and dried overnight. The specimens were mounted and gold/palladium sputter coated for cell morphology SEM analysis.</p> <p>4. The fixed samples will then stored in the sealed plastic bags and transferred to laser lab (TT.0.06) or LMCC for further observation in optical microscope and SEM. Any residual blood left in the vial will be well packaged and transported in secondary containment back to SSEHS. Any other things used in the experiment will be disinfected and/or discard according to the standard operation processes. After microscope observation, the samples will be put in the sealed plastic bags and stored in the office room (T. 202A).</p>		
1.3 Where will this work be carried out?	Rooms/areas	H25	
	Building(s)	CBE	
<input checked="" type="checkbox"/> 2.1 Human or animal tissues, cells, body fluids or excreta will be used in this project			
2. TISSUES, CELLS, BODY FLUIDS OR EXCRETA			
2.2 List all cells, tissues, body fluids and excreta to be used. For cells, indicate primary, continuous or finite.			
Material type	Organ source	Species	Where it will be obtained from (include country of origin)
Body Fluids	Vein	Human Blood	Volunteers recruited inside the UK. This will be strictly following the University policies and procedures for consent and human participant recruitment under HTA regulations.
<input checked="" type="checkbox"/> 2.3 Material(s) listed in section 2.2 above are considered to be 'relevant material' under the Human Tissue Act 2004.			
2.3.1 Relevant material type	Source / Provider A = Commercial provider B = HTA licensed Biobank with REC approval for genetic research use C = Other D = Organisation with REC approval for research use E = Imported		
Fresh human blood	<input type="checkbox"/> A	<input type="checkbox"/> B	<input checked="" type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E
2.3.1.1 Has a Material Transfer Agreement (MTA) been fully approved?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
2.3.3 Are you aware of the Ethics expiry date?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Expiry Date:	31 Dec 2022
2.3.3.1 Please detail the sample disposal action plan.	Trace amounts of blood will be disposed of through CBE clinical waste disposal procedures. Small amounts of surplus blood (less than 5ml) will be kept in the original tube and placed inside the original plastic bags and containers and transported using labelled secondary containment to SSEHS where it will be disposed of in Ecocloc boxes with the support of the SSEHS technician.		

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2.11 Biological agents will be used in this project			
3. CLASSIFICATION OF HAZARD GROUP			
3.1. Are you confident that any non-GM organism, tissue, cell, body fluid, excreta or any component thereof covered by this assessment cannot potentially pose a threat to humans or cause human diseases?	<input type="radio"/> Yes - Classify as HG1		
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?	<input checked="" type="radio"/> Yes - 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 a serious hazard to humans and that may spread to the community, where effective prophylaxis or treatment may or may not be available?	<input type="radio"/> Yes		
3.2. Do any of the materials contain pathogens or toxins covered by the Anti-Terrorism Crime and Security Act?	<input type="radio"/> Yes	ATCSA Schedule 5	
ASSIGNMENT OF CONTAINMENT LEVEL		HG2	
4. TISSUES, CELLS, BODY FLUIDS OR EXCRETA			
4.2. Will any culturing of the material described in section 2 take place? <i>If Yes, describe which cell(s) will be cultured and under what conditions.</i>	<input type="radio"/> Yes <input checked="" type="radio"/> No		
4.3. Could HIV permissive cells be present? <i>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.</i>	<input type="radio"/> Yes <input checked="" type="radio"/> No		
4.4. What is the maximum volume of culture grown?	Per Vessel Number of vessels		
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>	<input type="radio"/> Yes <input checked="" type="radio"/> No		
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?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	The total amount of blood used is 5ml to 10ml. Opening of container with blood and dropping blood on the sample will be in the BSC and during transformation between BSC and incubator, a container with blood need to be placed inside second container and the transformation need to be in caution. The accidentally splash of small amount of blood will covered by paper towels soaked with 1% Virkon solutions for 10 minutes, and will be wiped with paper towels soaked in 1:20 chemgene solution. All used paper towels need to be dispose in yellow bag.	SOP038 Biological Spill Response
5.2. Will this material be transported within the laboratory e.g. between BSC & incubator?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Transportation will be in caution. The container with blood need to be placed in a second container. Paper towels need to be prepared for any risk of leakage.	SOP005 Storage and Transport of Biological Materials.
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Blood samples are collected from SSEHS and will be transported from SSEHS in secure secondary containment to CBE. During this transportation, the blood will be carefully placed. The blood sample contained in the Vacutainer. Blood	

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Risk		How will this be controlled?	Reference to SOP's / Other documentation
5.3. Will this material (including waste) be transported locally between sites on campus but outside the laboratory?		Collection tubes will be held by leakage-proof plastic bags with absorbent material, the plastic bags are going to be placed in a sealed container with racks inside to hold the vial securely. The storage transport container will be well labelled with researchers details. Any residual blood left in the vial will be well packaged and transported in secondary containment back to SSEHS. The vial will be placed into an EcoBac sample disposal box with the assistance of SSEHS technician.	SOP005, storage and Transport of Biological Materials. HTA-PR-SOP-006
5.4. Will material(s) listed in section 2.2 or section 2.3 be shipped to organisations elsewhere in the UK or abroad?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.5. Will this material be received from organisations elsewhere in the UK or abroad?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.6. Will this material be stored?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.7. Will infectious material be centrifuged?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.8. Are biological samples to be cultured in an incubator?	<input checked="" type="radio"/> Yes <input type="radio"/> No	The health screening form is used to monitor the health condition of donor and the risk the blood is low. The incubation of blood is only half an hour and is not for culturing.	SOP114
5.9. Are sharps to be used at any stage during this activity?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Pipette will be used to dispense the blood onto sample materials. The used pipette need to be dispose into yellow lidded yellow sharps containers for autoclaving & incineration.	CoP 6.6 Preventing Injuries from Glass and Sharps SOP003
5.10. Are animals to be used in this project?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.11. Will a fermenter / bioreactor be used to culture a biological agent or material?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
5.13. Are any of the following to be used in conjunction with the project?	<input type="checkbox"/> Carcinogens or Mutagens <input checked="" type="checkbox"/> Toxins <input type="checkbox"/> Liquid Nitrogen <input type="checkbox"/> Airborne radiation <input type="checkbox"/> Lone working	Osmium Tetroxide. Safety Precautions will be followed. PPE will be worn. A separate COSHH Assessment will be written to address the risks & put controls in place.	
5.14. Are there any conditions associated with the hazards described in section 5.13 that require additional control measures?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
6. PPE AND HYGIENE			
Control Measure	Details		Reference to SOP's / other documentation

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Control Measure	Details		Reference to SOPs / other documentation
6.1 When will gloves be worn?	Latex powder free gloves for general cell culture located in all labs and change rooms. Disposable nitrile powder free gloves for general use will be worn at all times in the laboratory and are stored in designated change rooms/ point of entry into the lab. Heat resistance gloves will be used when removing objects from the autoclave, kept in the autoclave room, CBE laboratories.		SOP037 PPE
6.2 What type and where will they be stored?	Nitrile	In Lab and in Changing Area	SOP037 PPE
6.3 When will laboratory coats be worn and what type are these?	A side fastening Howie type lab coat will be worn at all times when working within CL2 laboratories, CBE. These are kept outside the laboratory in the change room.	White Howie	SOP037 PPE
6.4 Where will lab coats be stored and what are the arrangements for cleaning or disposal?	Lab coat will be stored in the Changing Area	The cleaning and disposal will be arranged by lab manager	CBE code of practice, SOP037
6.5 Provide details of any other types of PPE to be used?	Safety glasses, heat resistance gloves for using the autoclave, shoe covers		SOP037, OP025 "Use and Maintenance of Systec VX-95 Autoclave CBE045"
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 and H34 of the CL2 laboratories.		SOP004 General Laboratory Housekeeping
6.7 Where are the first aid boxes and emergency spill kits located?	First Aid Kit is located in the		

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
<input checked="" type="checkbox"/> Liquid waste	PBS washed waste including traces of blood will be disinfected by Virkon. Every 250ml PBS washed waste need 50ml 2%(w/v) Virkon solution. Chemical waste is treated according to SOP039. Small amounts of surplus blood (less than 5ml) will be kept in the original tube and placed inside the original plastic bags and containers and transported using labelled secondary containment to SSEHS where it will be disposed of in Ecocor boxes with the support of the SSEHS technician.	<input checked="" type="radio"/> Yes <input type="radio"/> No	SOP003 Disposal of Biological Waste SOP039 HTA-PR-SOP007
<input checked="" type="checkbox"/> Solid waste	Used pipettes tips will be disposed in yellow sharp bins. Lab consumables & gloves, paper towel (non chemical contaminated) will be placed in autoclave bags & autoclaved on cycle 4. Used container is going to be washed by PBS and the washed container is going to be autoclaved. Any chemically contaminated tissue or plasticware will be placed in yellow waste stream.	<input checked="" type="radio"/> Yes <input type="radio"/> No	SOP003 Disposal of Biological Waste HTA-PR-SOP007
<input type="checkbox"/> Other (Specify)			
7.2 Is any waste being autoclaved?		<input checked="" type="radio"/> Yes <input type="radio"/> No	SOP003 SOP025
All cycles have been validated for the actual load types used? (If Yes, documentary evidence of the validation must be available)		<input checked="" type="radio"/> Yes <input type="radio"/> No	SOP025 "Use and Maintenance of the Systec VX-95 Autoclaves"

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7. WASTE			
The successful completion of every load is checked prior to disposal?		<input checked="" type="radio"/> Yes <input type="radio"/> No	Print out from each load is checked, recorded and stored. SOP025 "Use and Maintenance of the Systec VX-95 Autoclaves"
7.3 How will liquid waste be disposed of?			
<input checked="" type="checkbox"/> To drain?	PBS washed waste including traces of blood will be disinfected	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<input checked="" type="checkbox"/> As solid waste?	Lab consumables & gloves, paper towel (non chemical contaminated)	<input checked="" type="radio"/> Yes <input type="radio"/> No	SOP003
<input checked="" type="checkbox"/> Other (Specify)	Small amounts of surplus blood (less than 5ml) will be kept in the original tube and placed inside the original plastic bags and containers and transported using labelled secondary containment to SSEHS where it will be disposed of in Ecocor boxes with the support of the SSEHS technician.	<input type="radio"/> Yes <input checked="" type="radio"/> No	
7.4 How will solid waste be disposed of?			
Categorisation	Waste stream colour code	Disposal method <small>(SOP or SOPs)</small>	
<input checked="" type="checkbox"/> Sharps	Orange	Yellow/Orange lidded sharps bin > autoclave sterilisation if known or potentially infected > clinical waste disposal (incineration)	
<input type="checkbox"/> Sharps contaminated with cytotoxic or cytostatic material			
<input checked="" type="checkbox"/> Human body parts, organs, including blood bags and blood preserves before leaving the site	Orange	Disinfection or sterilisation in the lab site > Yellow/Orange lidded rigid one way sealed tissue bins > clinical waste disposal (incineration) Human tissue waste must be placed in separate containers from non-human waste and labelled HTA waste	
<input type="checkbox"/> Animal body carcasses or recognisable parts that have been pretreated before leaving the site			
<input type="checkbox"/> Potentially or known infected lab wastes contaminated or potentially contaminated with cytotoxic or cytostatic material that have NOT been pretreated before leaving the site			
<input type="checkbox"/> Potentially or known infected lab wastes that have NOT been pretreated before leaving the site			
<input checked="" type="checkbox"/> Infected or potentially infected lab wastes that HAVE been pretreated before leaving site	Orange	Disinfection or sterilisation in the lab site > orange clinical waste bags > clinical waste disposal (incineration)	
For HTA: Please specify how you will ensure segregation of tissue from the deceased from other clinical waste.		N/A. No Tissue from deceased will be used.	

8. MAINTENANCE

8.1 Are preventative maintenance and monitoring regimes in place for the following laboratory equipment?				
	Inspection / Servicing Frequency	Cleaning / Disinfection Frequency	Monitoring / Alarms Frequency	Reference to SOPs
<input type="checkbox"/> Centrifuges				
<input checked="" type="checkbox"/> BSCs	Weekly inspections carried out during lab clean. Serviced every 12 months	1 in 20 Chemgene for weekly clean and Chemgene wipes and 1:50 chemgene spray for cleaning before and after use each use. 70% BMS for use after Chemgene, to stop build up of sticky residue.	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.	SOP009- Use and Maintenance of HeraSafe KS Class II BSC SOP104- Use and Maintenance of HERASAFE KS Class II re-circulating BSCs SOP004 – General laboratory housekeeping

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8. MAINTENANCE					
<input checked="" type="checkbox"/>	Fume Hoods	Maintenance, repairs and annual certification of the fume cupboard will be done by trained and authorised contract / service personnel	Daily Usage Record will be completed. All equipment will be removed from the cabinet and working surfaces are cleaned after use	Will record and report alarm sounding events that indicate non-conformance or malfunction and notify lab managers	SOP026
<input checked="" type="checkbox"/>	Autoclaves	Lab managers organise the maintenance, repairs and annual certification of the autoclave by trained and authorised contract / service personnel.	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	SOP024 "Use and Maintenance of Systec VX-95 Autoclave"
<input checked="" type="checkbox"/>	Incubators	Inspection during weekly lab duties. Annual servicing.	Decontamination is accordance with SOP.	Alarms triggered for incorrect temperature and CO2 concentration	SOP114 Use and Maintenance of the HeraCell cO2 incubators.
<input type="checkbox"/>	Liquid N ₂ Stores				
<input type="checkbox"/>	Freezers				
<input checked="" type="checkbox"/>	Fridges	Inspected / defrosted and cleaned every 6 – 12 months	2% Neutracon / 1% Virkon followed by 70% IMS	On board alarms and thermocouples linked to monitoring system.	SOP016 "Use and maintenance of Fridges and Freezers"
Failure contingency plan					
<input type="checkbox"/>	Others				
9. TRAINING					
9.1. Have all project research workers undertaken safety training for working with hazardous or potentially hazardous biological materials and agents at CL2?					
Name of researcher		Had Training	Date training completed (or will be completed)	If no, state why	
Jialin Dong		<input checked="" type="radio"/> Yes <input type="radio"/> No	Training in progress		
9.2. This work involves HTA 'Relevant Material', confirm that all project research workers have undertaken HTA training					
Name of researcher		Had Training	Date training completed (or will be completed)		If no, state why
Jialin Dong		<input checked="" type="radio"/> Yes <input type="radio"/> No	Induction	On-line 22 Mar 2022	In-house
10. EMERGENCY PROCEDURES					
10.1 Are procedures in place for dealing with spillage of infectious or potentially infectious material					
Equipment			Reference to SOPs		
<input checked="" type="checkbox"/>	Within the BSC		SOP006- Selection and Use of Virkon, SOP009- Use and Maintenance of HeraCell		
<input type="checkbox"/>	Within the centrifuge				
<input checked="" type="checkbox"/>	Within the laboratory, but outside any primary control measures (e.g. BSC)		- SOP006- Selection and use of Virkon Disinfectant 2- SOP038- Biological Spill		

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10. EMERGENCY PROCEDURES				
<input checked="" type="checkbox"/>	Outside the laboratory	SOP038 "Biological Spill Response". Spill responses are detailed in SOP005		
Are procedures in place for the security of these HTA Relevant samples?				
<input checked="" type="checkbox"/>	Loss or theft of samples (including whilst in transit)			
<input checked="" type="checkbox"/>	Loss of traceability of samples			
<input checked="" type="checkbox"/>	Incorrect disposal of samples			
10.2 Describe the procedures in place for an accidental exposure				
Immediate action	Skin- flood area with running water plus soap and water. Face-flush with eye wash for 15 minutes, flush eyeball for 15 mins with cold water, hold eye open. For breakages to skin- encourage bleeding, do not suck. Ingestion- contact first aider. In the event of a serious injury requiring medical attention, individuals should attend the Accident and Emergency Department/Minor Injuries Unit of the local hospital.		Ref to SOP's CBE SOP038 "Biological Spill Response"	
When and whom to report the incident	Immediately to laboratory management and first aiders. University		Ref to SOP's CBE SOP038 "Biological Spill Response"	
11. ACCESS				
		Explanation		References
11.1. Is/are the lab(s) adequately separated from other areas (e.g. offices)?		<input checked="" type="radio"/> Yes <input type="radio"/> No		
11.2. Is/are the lab(s) or other work areas shared with other users not involved in the project?		<input checked="" type="radio"/> Yes <input type="radio"/> No	<p>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.</p> <p>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).</p> <p>Once authorised access has been granted, it is the responsibility of the operator to identify specific training needs prior to the start of new projects. SOPs and risk assessments relevant to project equipment and/or procedures can be used as</p>	

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11. ACCESS			
		training aids. Training files are live documents and must be continually updated to record all training acquired. 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.	
11.3. Describe the measures in place to ensure that hazardous biological agents or HTA relevant materials is secure.	<input checked="" type="radio"/> Yes <input type="radio"/> No	Equipment containing HTA material will be clearly labelled and segregated where possible. Researchers contact details will be clearly marked. Disposal of residual blood in vial will be transported back under supervision of researcher and disposed of securely into Ecoloc box in SSEHS.	SOP005 , SOP HTA+PR-SOP006

12. OCCUPATIONAL	
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No
12.2. Is health surveillance required?	<input type="radio"/> Yes <input checked="" type="radio"/> No

13. NOTIFICATIONS	
<input checked="" type="checkbox"/> 13.1. Are any of the cells, tissues or fluids covered by the Human Tissue Act (HTA) under the University HTA Licence?	Yes
<input type="checkbox"/> 13.2. Are any of the cells, tissues or fluids obtained from a HTA licensed biobank with REC approval for generic research use?	
<input type="checkbox"/> 13.3. Does this work have ethical approval from a recognised NHS Research Ethics Committee?	
<input checked="" type="checkbox"/> 13.4. Does any of the work require approval from the University Ethical Committee?	The University Ethical Committee has approved the project. (Ref: 2021-4814-7476)
<input type="checkbox"/> 13.5. Do any of the materials require approval for use from the UK Stem Cell Bank Steering Committee (MRC)?	
<input type="checkbox"/> 13.6. Do any of the materials or biological agents listed require any other licenses?	

14. APPROVALS	
Authorised Person	Carolyn Kavanagh  Digitally signed by Carolyn Kavanagh Date: 2022.02.28 09:28:12 Z
Departmental Biological Safety Advisor	
University Biological Safety Officer (or Deputy)	Julie Truenr  Digitally signed by Julie Truenr Date: 2022.03.10 09:06:42 Z

14. APPROVALS	