	Safety Department use only	Material(s) Classification	
Loughborough University	Reference Number:	Hazard Group 1	
		Hazard Group 2	<b>√</b>
Biological Risk Assessment	CBE Use only	GMO	
	Reference Number: CBE BRA 190	HTA Licensable	
FORM CBE-RA-Form/002 Version 1.0	CBE BRA 192		

## 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 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.

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

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 to the authorised person before those changes are made to the work.

				3
	Principal Investigator			Person conducting this risk assessment
Name	Sotiris Korossis		Name	Sotiria Toumpaniari
Position	Professor of Biomedical Engineering and Bioartificia		Position	Research associate in Cardiovascular Regenerati
Department	Centre of Biological Engineering		Departmen	t Centre of Biological Engineering
School	Wolfson of MEME		School	Wolfson of MEME
	The Project Activity	1		Others involved in the work
a e	Culture of human pulmonary microvascular endothelial (HPMEC ST1.6R) and their use for medical device endothelialisation.		Names	Maria Pavlidou Sotiris Korossis
Title				2
Reference N	umber	*		
Start Date	21 Sep 2020 End Date 3 Oct 2022			
1				

Sotiria

Toumpaniari

Signature

Sotiria Toumpaniari

Name

Digitally signed by Sotiria

Date: 2020.09.17 14:07:36

Toumpaniari

+01'00'

17 Sep 2020

Date

		1. INTROD	UCTION						
1.1 Background & aim of project	haemodynamic thrombogeneid come in direct The general ain endothelial cell	Direct contact of the patient's blood with the internal surface of the LVAD as well as the extraphysiological naemodynamics of medical devices have been reported to cause a variety of direct and indirect complications, including thrombogeneicity, bleeding diathesis and haemolysis (Sen & Oberton, 2018). Endothelialisation of medical devices that come in direct contact with blood has been suggested to prevent coagulation disorders.  The general aim of this project is to cover the blood- contacting surface of candidate materials or medical device with endothelial cells and assess if their the hematocompatibility has been improved. Static and dynamic culture conditions are going to be used to evaluate the results.							
	HPMEC ST1.6R	are going to be expande	ed to prepare a cell library.						
	T75 or T125 or will be added in centrifuge tube and the cell pel	assaging cells -This will involve aspirating media off the cells, washing them gently in PBS and detaching them from th 75 or T125 or T175 flask using trypsin/EDTA and incubating in a CO2 incubator for 1.5-2 minutes. DMEM culture media vill be added immediately following incubation to quench the trypsin reaction and the cells will be transferred to a ster entrifuge tube. The cell suspension will be centrifuged at 300xg for 5 minutes. The supernatant will be removed to was nd the cell pellet will be re-suspended in fresh EGM-2 culture media. The cells will be counted (separate risk assessmen sing NucleoCounter. Following calculation of viability, cells will be seeded into new culture flasks.							
		eeding cells - Medium will be removed from culture flasks and replaced with fresh media; flasks will be return nmediately to the 5% CO2 incubator.							
1.2 Description of experimental procedures	"Cryopreservati and 1 ml cell su	on and Storage of Mam	be prepared in accordance to standard procedur malian Cell Lines". Freeze media containing 10% l to labelled cryovials, before placing at -80C. Cells itrogen.	DMSO with FBS will be prepared					
	Cryopreserved being transferre centrifuged at 1	Thawing vials - Vials will be thawed using in accordance to standard procedures as detailed in SOP032 "Resuscitation Cryopreserved Mammalian Cell Lines". Vials will be removed from storage and placed in a 37C water bath before being transferred to the BSC and added dropwise to 9ml warmed EGM-2 culture media. Cell suspension will be centrifuged at 1200rpm for 5mins before being resuspended in fresh medium and placed in a 5% CO2 incubator.							
			ordance with lab QMS requirements, good cell cu ice (COP) and the university biological safety polic						
	The processes t	hat HPMEC ST1.6R are g	oing to be used are going to be risk assessed in se	eparate documents.					
1.3 Where will this work be carried out?	Rooms/areas	H25, H23							
* * *	Building(s)	lding(s) CBE							
	* a	* * *							
2.1 Human or animal tissues, co	ells, body flui	ds or excreta will l	oe used in this project						
	2. TISS	SUES, CELLS, BODY	FLUIDS OR EXCRETA						
2.2 List all cells, tissues, body fluids ar	nd excreta to b	e used. For cells, ir	dicate primary, continuous or finite.						
Material type . O	rgan source	Species	Where it will be obtained (Include country of ori	NAC BARRELE STRUCTURE CO.					
Endothelial cells adult	resected from patients with nant tumors	Human	Hannover Medical School, Hannover, Germany	,					
2.3 Material(s) listed in section	2.2 above ar	e considered to be	'relevant material' under the Humar	Tissue Act 2004.					
2.11 Biological agents will be u	sed in this pr	oject							
	3. (	CLASSIFICATION O	F HAZARD GROUP						
3.1. Are you confident that any non-GM organis cannot potentially pose a threat to humans or o			component thereof covered by this assessment	O Yes - Classify as HG1					
3.1.1. Can any non-GM organism, tissue, cell, bo hazard to humans but is unlikely to spread to tl	-		of cause human disease and potentially be a lly effective prophylaxis or treatment available?						

		3. C	LASSIFICATION OF HAZARD	GROUP				
3.1.2. Can any non-GM organism, tissue, cell, body a serious hazard to humans and that may spread to available?						O Yes	* .	
3.2. Do any of the materials contain pathogens or t	oxin:	covered	by the Anti-Terrorism Crime and Secu	rity Act?	β	O Ye	5	ATCSA Schedule 5
ASSIGNMENT OF CONTAINMENT LEVEL	×			2	1	Hazard	gro	up 2
	1967 to 2							
	el Ally	4. TISS	UES, CELLS, BODY FLUIDS O	REXCRETA				
4.2. Will any culturing of the material described in s If Yes, describe which cell(s) will be cultured and unde					HPMEC ST1.6R w dynamic conditic going to be conti continuous/pulsa flow rates up to c	ons. The d inuous, po atile flow	ynam ulsatil regim	nic conditions are le, or nes at different
4.3. Could HIV permissive cells be present*? If Yes, describe the cells and for how long these cultur If unsure seek advice. Refer to CBE Code of Practice for		O Yes  No	· · · · · · · · · · · · · · · · · · ·		a			
4.4. What is the maximum volume of culture growr	1?			Per Vessel	10,000,000			a
				Number of vessels	10			1
4.5. Will the tissues, cells, body fluids or excreta be concentration of adventitious biological agent pres				O Yes  No	,		8 -	* *
4.6. Will any of the tissues, cells or fluids be donated access to the labs?	d by	ou or you	ur colleagues working in or with	O Yes  No		2	*	and Sec
		5.	RISKS AND CONTROL MEAS	URES				
Risk			How will	this be controll	led?			erence to SOP's / er documentatio
5.1. Might infectious droplets, aerosols or splashes be created, either deliberately or by accident?	8 C	Yes No	Aerosols may be generated when manually pipetting or manipulating solutions. A class 2 BSC will be used for all open manipulations to protect cell line from contamination and to ensure any aerosols generated are contained. BSCs will be operated in accordance to SOP009 "Use and Maintenance of Herasafe KS Class II BSC) or SOP104 "Use and Maintenance of HERASAFE KS Class II re-circulating BSCs" depending on which BSC is being used.			d to e e of e of	and Ma Her Cla SOI and Ma HER Cla	intenance of rasafe KS ss II BSC) or P104 "Use
5.2. Will this material be transported within the laboratory e.g. between BSC & incubator?	0	Yes No	Cells will be contained in sealed flat transported within the laboratory. resulting in a biological spill, this w SOP038 "Biological Spill Response"	in the event of a fill be cleaned up	n accidental breakag	je,		P038 "Biological I Response"
5.3. Will this material (including waste) be transported locally between sites on campus but outside the laboratory?	0	Yes No	Transport outside CBE lab unit is highly unlikely, any movement is likely to be constrained within the University campus in sealed flasks and sealed secondary containers with outer packaging and using local procedures: SOP038 "Biological Spill Response"					P038 "Biological I Response"
5.4. Will material(s) listed in section 2.2 or section 2.3 be shipped to organisations elsewhere in the UK or abroad?	Ø 0	Yes No	Transportation is unlikely, but if recontainers within secondary contallabels used. Approved couriers will	inment vessels v	with the appropriate I		Tran	2005 - Storage & nsport of ogical Agents v2

Risk			How will this be controlled?	Reference to SOP's of Other documentation
5.5. Will this material be received from organisations elsewhere in the UK or abroad?	0	Yes No	Cells will be packaged in sealed containers containing dry ice within secondary containment vessels with the appropriate hazard labels used. Approved couriers will be used when required.	SOP005 - Storage & Transport of Biological Agents v2
5.6. Will this material be stored?	0	Yes No	Any vial will be removed from the N2 stores by an authorised user according to SOP013 "Use and Maintenance of Liquid Nitrogen Stores" Any further cell stocks will be stored within -80°C freezer, in sealed vials and secondary containment, located in the store room (H18) within CBE lab unit.	SOP013 "Use and Maintenance of Liquid Nitrogen Stores"
5.7. Will infectious material be centrifuged?	0	Yes No	Sealed rotors and buckets will always be used. Sealed Buckets will be opened upon bench top, unless a spillage within a bucket is suspected, in which case the buckets will be transferred to a BSC and opened within a controlled environment. The following SOPs will be strictly adhered to: SOP088- "Use and Maintenance of Sigma 1-14 Microcentrifuge" SOP308- "Biological Spill Response" Biological spill kits are readily available in each laboratory change room or directly inside laboratories that do not have change rooms.	SOP111 "Use and Maintenance of Sigma 1-14 Microcentrifuge", SOP308- "Biological Spill Response"
5.8. Are biological samples to be cultured in an incubator?	Ø 0	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	SOP053- "Use and Maintenance of the Sanyo MCO-18AIC Incubator" SOP038- "Biological Spill Response" SOP114- "Use and Maintenance of the Heracell CO2 Incubators"
5.9. Are sharps to be used at any stage during this activity?	0	Yes No	Glass slides will occasionally be used. Occasionally needles will need to be used to remove reagents (such as DMSO) from sealed bottles. In these cases users will never re-sheath needles. Sharps will be disposed of in either cytotoxic sharps bins (when using chemicals) or autoclavable bins for biological materials only.	CBE code of practice, SOP088, SOP003
5.10. Are animals to be used in this project?	0	Yes No		
5.11. Will a fermenter / bioreactor be used to culture a biological agent or material?	0	Yes No		en e e
5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)?	0	Yes No		,
5.13 Are any of the following to be used in conjunction with the project?		Carcinogens or Mutagens Toxins		
You must complete a cryogen risk assessment before		Liquid	Outron concern that activists alone when a surron lavel and lavel	COPO13 //Llos are
work begins and add the reference here.		Nitrogen Ionising	Oxygen sensors that activate alarm when oxygen levels are lo	SOP013 "Use ar
		radiation Lone		
5.14. Are there any conditions associated with the		working	- A - 1	
hazards described in section 5.13 that require additional control measures?	Ø.	Yes No		
		4 a 7	6. PPE AND HYGENE	
Control Measure	Deta	ils		Reference to SOPs other documentation

Control Measure	Details	9		ii 10	Reference to SOPs other documentation		
5.1 When will gloves be worn?	At all times in the laboratory. Glove v	r intervals	CBE code of practice, SOP037, SOP038				
5.2 What type and where will they be stored?	Nitrile	In Lab and in Changing A	rea		CBE code of practice, SOP037		
5.3 When will laboratory coats be worn and what type are these?	At all times in the laboratory	White Howie	11		CBE code of practice		
6.4 Where will lab coats be stored and what are the arrangements for cleaning or disposal?	In changing area	Monthly clean by lab manager		* u	SOP037		
6.5 Provide details of any other types of PPE to be used?	Laboratory safety glasses will be wor Face shield (primarily for handling lic storage in the CBE as directed by SOF Full length aprons will be worn when facility.	quid nitrogen) will be worn when r P013 "Use and Maintenance of Liq	etrieving cell v uid Nitrogen St	ial from tores"	SOP013 "Use and Maintenance of Liquid Nitrogen Stores" and when operating the autoclave as directed by SOP025 "Use and Maintenance of Systec VX-95 Autoclave CBE045		
5.6 Describe the lab hygiene facilities available and where they are located	Designated eye wash stations and hand washing facilities are available in the change room of each laboratory; other hand basins are situated directly inside the analytical laboratory and in the main change area as entering and exiting the facility.	hand washing facilities are available in the change room of each laboratory; other hand basins are situated directly inside the analytical laboratory and in the main change area as entering and					
5.7 Where are the first aid boxes and emergency spill kits located?		All biological spill kits are	in the chan	ges room	2 8 4		
	7. WA	CTE					
7.1	<i>7.</i> WF	IJIL			的企業要級分		
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 t	o disposal	Is the treatment validated?	100	e to SOPs / other umentation		
LZT LIQUIQ.Waste	Virkon Decontamination according to SC Waste"	DP003 "Disposal of Biological	<ul><li>✓ Yes</li><li>○ No</li></ul>	SOP003 "Dis Waste"	sposal of Biological		
I / I SOUR WASTE		amples with seeded cells will be treated in 1% Virkon solution and after 4 h the Virkon and samples will be disposed according to SOP003.					
Other (Specify)							
7.2 Is any waste being autoclaved?			Yes No	Waste", SOP	sposal of Biological 1025 "Use and e of the Systec claves"		
All cycles have been validated for the actual le			<ul><li>✓ Yes</li><li>✓ No</li></ul>		e and Maintenance c VX-95 Autoclaves"		
The successful completion of every load is ch	ecked prior to disposal?		<ul><li>✓ Yes</li><li>O No</li></ul>	Access of the Control	e and Maintenance c VX-95 Autoclaves"		
7.3 How will liquid waste be disposed of?					eš		

			ar *	
	7. WASTE			
✓ To drain? After treatment v	with virkon			After 1% Virkon decontamination for 24 hours, waste is poured down the drain followed by copious amounts of water. Refer to SOP003 "Disposal of Biological Waste" In the occurrence of a contamination, flask will be treated with 3% Virkon overnight before being disposed of, refer to SOP003 "Disposal of Biological Waste"
As solid waste?				
Other (Specify)	e and the state of	· /	3	
7.4 How will solid waste be disposed of?	4			4
Categorisation	Waste stream colour code		Disposal m (Edit as requ	
✓ Sharps	Orange	Yellow/Orange lidded s potentially infected > cl		oclave sterilisation if known or oosal (incineration)
Sharps contaminated with cytotoxic or cytostatic material	Purple	Yellow/Purple lidded Sh 1000C)	arps bin >clinic	al waste disposal (incineration @
Human body parts, organs, including blood bags and blood preserves and excreta that have been pretreated before leaving the site				
Animal body carcasses or recognisable parts that have been pretreated before leaving the site			2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
Potentially or known infected lab wastes contaminated or potentially contaminated with cytotoxic or cytostatic material that have <a href="NOT">NOT</a> been pretreated before leaving the site	Purple	Yellow/Purple clinical w	aste bags > clini	ical waste disposal (incineration)
Potentially or known infected lab wastes that have <u>NOT</u> been pretreated before leaving the site	Yellow	Yellow clinical waste ba	gs > clinical was	te disposal (incineration)
Infected or potentially infected lab wastes that <u>HAVE</u> been pretreated before leaving site	Orange	Disinfection or sterilisati clinical waste disposal (i		e > orange clinical waste bags >
	8. MAINTENANC	E		

**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
✓ Centrifuges	Weekly inspections carried out during lab clean. Serviced every 2 years	Performed according to relevant SOP		SOP004 – General laboratory housekeeping SOP088- "Use and Maintenance of Sigma 1-14 Microcentrifuge
<b>✓</b> BSCs	Weekly inspections carried out during lab clean. Serviced every 12 months.	Before and after every use the BSC is wiped down with 1:50 chemegene, which is left to dry then followed by 70% IMS. There is a thorough weekly clean with 1:20 Chemgene which is left to dry then followed by 70% IMS.	to inform if the sash is not correctly positioned. The display in the BSC also detailed	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

		8. MAI	NTENANO	Œ		
Fume Hoods					p)	
✓ Autoclaves	6 months	Autoclaves have we monthly cleaning a in SOP. The usage is record time it is used and vissues occurred.	s detailed ed each	The autocla	eve alarms when a	SOP025 "Use and Maintenance of Systec VX-95 Autoclave CBE045" SOP024 "Use and Maintenance of Systec VX-95 Autoclave CBE044
✓ Incubators	Inspection during weekly lab duties. Annual servicing.	Decontamination is accordance with SC	-	Alarms trig temperatur concentrati	, v	SOP053 "Use and Maintenance of the Sanyo MCO-18AIC CO2 Incubator"
Liquid N <sub>2</sub> Stores	LN2 stores are checked and topped up twice weekly			O2 alarms are in place any time that LN2 stores are being refilled. LN2 stores are connected to temperature probes to monitor storage temperatures.		SOP013 – Use and maintenance of liquid nitrogen stores
Failure contingency plan				2 (7	2	
✓ Freezers	-Inspected / defrosted and cleaned every 6 – 12 months -Monthly temperature checks with a calibrated thermometer along with other inspections and manual challenge of alarms	2% Neutracon/ 1% followed by 70% IM		On board al thermocou monitoring	ples linked to	SOP016 "Use and maintenance of Fridges and Freezers"
Failure contingency plan	, <sup>2</sup>				8.7	
✓ Fridges	Inspected / defrosted and cleaned every 6 – 12 months	2% Neutracon/ 1% followed by 70% IM		On board alarms and thermocouples linked to monitoring system.		SOP016 "Use and maintenance of Fridges and Freezers"
Failure contingency plan			g × ''		PD 9	
✓ Others	Nucleocounter NC-3000			7,		SOP121 "Use and maintenance of Chemometec NC3000 Nucleocounter"
		9. T	RAINING			
9.1. Have all project research	h workers undertaken safety trainir	ng for working with ha	azardous or p	otentially haz	ardous biological ma	terials and agents at CL2?
Nai	me of researcher	Had Training	Date trainin (or will be	g completed completed)		If no, state why
Sotiria Toumpaniari	*	Yes     No	16 Ja	n 2019		
Maria Pavlidou		Yes    No	15 Oc	t 2019		
Sotiris Korossis	Yes     No	15 March 2019				
9.2. This work involved	es HTA 'Relevant Material', confirm	that all project resear	ch workers h	ave undertak	en HTA training	
		10. EMERGEN	ICY PROC	EDURES		
10.1 Are procedures in pla	ce for dealing with spillage of infect	ious or potentially inf	ectious mate	erial	, m	
7 a,	Equipment	2.7 E	-	,	Refere	nce to SOPs
	V P	*			# 6	- A

		10. E	MERGENCY PRO	OCEDURES		
✓ Within the BSC	3000 PM 1990 P			SOP006- Selection and Use of Virkon, SOP009- Use and Maintenance of He		
✓ Within the centr	ifuge	2 90	9 9	SOP088-:"Use	e and Maintenance of Sigma	a 1-14 Microcentrifuge" SOP308- "[‡
✓ Within the labor	atory, but outside any primary co	ntrol measures (e	e.g. BSC)	1 - SOP006- S	election and use of Virkon [	Disinfectant 2- SOP038- Bioloigcal 🛊
Outside the labo	ratory	9		SOP038 "Biol	ogical Spill Response". Spill	responses are detailed in SOP005
Are procedures in p	lace for the security of these HTA	Relevant samples	5?			
Loss or theft of sa	amples (including whilst in transit	)		*		
Loss of traceabili	ty of samples			-d		
Incorrect disposa	al of samples	0 2	* # - B	9.		
10.2 Describe the prod	cedures in place for an accidental	exposure	S est a	*)		
Immediate action	Skin-flood area with running wa with eye wash for 15 minutes, flu water, hold eye open. For breaka not suck. Ingestion- contact first requiring medical attention, indi- and Emergency Department/Mir	ish eyeball for 15 ges to skin- enco aider. In the even viduals should att	mins with cold urage bleeding, do t of a serious injury tend the Accident	Ref to SOP's	CBE SOP038 "Biological S	pill Response"
When and whom to report the incident	Immediately to laboratory manag	gement and first a	aiders. University or	Ref to SOPs	CBE SOP038 "Biological S	pill Response"
11. Is/are the lab(s) addareas (e.g. offices)?	equately separated from other		11. ACCESS	Explan	ation	References
11.2. Is/are the lab(s) oother users not involve	or other work areas shared with ed in the project?		status, operatorequirements sand Safety Coninclude a detail Practice (CoP), aspects of classibiological agentequirements oprocedures incomplete and training is different being grant of the file must be revenued and the same an	rs. In order to rs must satisticated by CBE manittee. Baseled review of this documents, waste manituding spill and ocumented all in the CBI end access to riewed and sets.	o obtain authorised us of y minimum training anagement and Healt ic training modules of the current Code of ent details specific on relation to handling anagement, training ment and emergency	h or g
			responsibility of training needs SOPs and risk a equipment and	of the operat prior to the ssessments d/or procedu	s been granted, it is the for to identify specific start of new projects. relevant to project ures can be used as are live documents an	

		11. ACCESS	
· · · · · · · · · · · · · · · · · · ·		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 <b>HTA relevant</b> material is secure	○ No	Biological material will be decontaminated after experiment by immersing it in 1% Virkon for 24h. If storage is required material will be stored in PBS with 1% P/S at 4°C.  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.	SOP005, SOP003
	1:	2. OCCUPATIONAL	
12.1. All workers involved with handling unscreened bloo Have all workers involved in this project been immunized		s and other tissues are recommended to have Hepatitis B immunisat	ion. Ves
12.2. Is health surveillance required?	e e e e e e e e e e e e e e e e e e e		○ Yes ⊘ No
	1	3. NOTIFICATIONS	
13.1. Are any of the cells, tissues or fluids covered by under the University HTA Licence?	the Human Tissue	e Act (HTA)	* * * * * * * * * * * * * * * * * * * *
13.2. Are any of the cells, tissues or fluids obtained fro with REC approval for generic research use?	om a HTA licensec	d biobank	
13.3. Does this work have ethical approval from a reco	ognised NHS Rese	earch	
13.4. Does any of the work require approval from the Committee?	University Ethical		
13.5. Do any of the materials require approval for use Bank Steering Committee (MRC)?	from the UK Sten	n Cell	
13.6. Do any of the materials or biological agents liste licenses?	ed require any oth	ner	
	·	14. APPROVALS	
Authorised Person	Pr	Ofessor Sotiris Korossis Korossis	by Professor Sotiris 0 09:41:57 +01'00'
Departmental Biological Safety Advisor			
University Biological Safety Officer (or Deputy)		Waugh C. Kavanagh (	of behalf
		20 1	Julie Tumer
		×3/11	2020 Page 9 of 10