er:	Hazard Group 1	П
	Hazard Group 2	
CBE Use only	GMO	
er: CBE BRA 190	HTA Licensable	
	CBE Use only per: CBE BRA 190	

## 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.

			1, 1					
	Principal Investigator			Person conducting thi	s risk ass	essment		
Name	Sotiris Korossis		Name	Sotiria Toumpaniari	6.3	10 a		
Position	Professor of Biomedical Engineer	ing and Bioartificia	Position	Research associate in Cardiovascular Regenerati				
Department	Centre of Biological Engineering		Department	Centre of Biological Engineering				
School	Wolfson of MEME	X	School	Wolfson of MEME				
	1. 17. A. (2. 170 No. 18) T. (3. 18) T. (4. 17. 17.					N. WELLT WELLT STATE TO THE STATE OF THE ST		
	The Project Activity			Others involved i	n the wo	rk		
	Culture of human umbilical vein		Names	Maria Pavlidou	,			
	(HUVECs) and their use for medic endothelialisation.	al device	11	Sotiris Korossis		, .		
Title						*		
		© 8		, ,	•	4		
		2			4	3		
Reference Nu	mber							
Start Date	21 Sep 2020 End Date 3	Oct 2022				· · · · · · · · · · · · · · · · · · ·		
			X					
Name	Sotiria Toumpaniari Si	Sotiria <sup>ignature</sup> Toumpa	Tou	itally signed by Sotiria Impaniari ie: 2020.09.17 14:07:36	Date	17 Sep 2020		

			1. INTROI	DUCTION								
1.1 Background & aim of project		Direct contact of the patient's blood with the internal surface of the LVAD as well as the extraphysiological haemodynamics of medical devices have been reported to cause a variety of direct and indirect complications, inclu thrombogeneicity, bleeding diathesis and haemolysis (Sen & Oberton, 2018). Endothelialisation of medical devices to 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 going to be used to evaluate the results.										
2 46		HUVECs are goi	HUVECs are going to be expanded to prepare a cell library.									
		Passaging cells -This will involve aspirating media off the cells, washing them gently in PBS and detaching them T75 or T125 or T175 flask using trypsin/EDTA and incubating in a CO2 incubator for 1.5-2 minutes. DMEM cultur will be added immediately following incubation to quench the trypsin reaction and the cells will be transferred to centrifuge tube. The cell suspension will be centrifuged at 300xg for 5 minutes. The supernatant will be removed and the cell pellet will be re-suspended in fresh EGM-2 culture media. The cells will be counted (separate risk assusing NucleoCounter. Following calculation of viability, cells will be seeded into new culture flasks.										
			Medium will be remove the 5% CO2 incubator	h media; flasks will be return								
1.2 Description of experimental pro	cedures	Freezing cells - A working cell bank will be prepared in accordance to standard procedures as detailed in SOP031 "Cryopreservation and Storage of Mammalian Cell Lines". Freeze media containing 10% DMSO with FBS will be prepared 1 ml cell suspensions will be added to labelled cryovials, before placing at -80C. Cells will remain at -80C for 24 at then, they will be transferred to liquid nitrogen.										
	E .	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.										
		All procedures will be conducted in accordance with lab QMS requirements, good cell culture practice, good techniques, the local CBE Code of Practice (COP) and the university biological safety policy.										
	Taren o	The processes that HUVECs are going to be used are going to be risk assessed in separate documents.										
1.3 Where will this work be carried o	out?	Rooms/areas	Rooms/areas H25, H23									
* 1		Building(s) CBE										
<ul><li>2.1 Human or animal t</li></ul>	issues, ce	lls, body flui	ds or excreta will	be used in this project								
		2. TISS	SUES, CELLS, BOD	Y FLUIDS OR EXCRETA								
2.2 List all cells, tissues, body	y fluids an	d excreta to b	oe used. For cells, i	indicate primary, continuous or finite.								
Material type	Or	gan source	Species	Where it will be obtaine (Include country of or	10 (C. 40 (C. 10							
Endothelial cells	Umbili	cal vein	Human	Hannover Medical School, Hannover, German	y							
2.3 Material(s) listed in	n section	2.2 above ar	e considered to b	e 'relevant material' under the Huma	n Tissue Act 2004.							
2.11 Biological agents	will be us			OF HAZARD GROUP								
3.1. Are you confident that any non- cannot potentially pose a threat to		m, tissue, cell, bo	dy fluid, excreta or any	component thereof covered by this assessment	Yes - Classify as HG1							
				reof cause human disease and potentially be a ually effective prophylaxis or treatment available?	✓ Yes - Classify as HG2							
	at a	× ************************************	· .									

	351								
		3. CL	ASSIFICATION OF HAZARD	GROUP					
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?									
3.2. Do any of the materials contain pathogens or	y the Anti-Terrorism Crime and Secu	urity Act?		O Ye	S	ATCSA Schedule 5			
ASSIGNMENT OF CONTAINMENT LEVEL	4			8		Hazard	gre	 oup 2	
		4			3			,	
		4. TISSU	ES, CELLS, BODY FLUIDS O	R EXCRETA					
4.2. Will any culturing of the material described in If Yes, describe which cell(s) will be cultured and under			dynamic conditing going to be continuous/puls				ultured under static and ons. The dynamic conditions are inuous, pulsatile, or atile flow regimes at different clinically relevant LVAD speeds.		
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 fo		O Yes		v		9			
4.4. What is the maximum volume of culture grown	n?			Per Vessel	10,000,000				
				Number of vessels	10				
4.5. Will the tissues, cells, body fluids or excreta be concentration of adventitious biological agent pre				O Yes  O No					
4.6. Will any of the tissues, cells or fluids be donate access to the labs?	d by y	ou or your	colleagues working in or with	O Yes O No	1		с		
		5.	RISKS AND CONTROL MEAS	SURES					
Risk		A, a	How will	this be controlle	ed?			ference to SOP's / ner documentation	
5.1. Might infectious droplets, aerosols or splashes be created, either deliberately or by accident?  5.2. Will this material be transported within the laboratory e.g. between BSC & incubator?  5.3. Will this material (including waste) be		Yes No 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.  Cells will be contained in sealed flasks and sealed secondary containers if being transported within the laboratory. In the event of an accidental breakage, resulting in a biological spill, this will be cleaned up immediately according to SOP038 "Biological Spill Response".					DP009 "Use and aintenance of erasafe KS ass II BSC) or DP104 "Use addinatenance of ERASAFE KS ass II rerculating BSCs"  DP038 "Biological ill Response"	
transported locally between sites on campus but outside the laboratory?  5.4. Will material(s) listed in section 2.2 or section	0	No	constrained within the University containers with outer packaging a "Biological Spill Response"	campus in sealed and using local pr	flasks and sealed se ocedures: SOP038	econdary	Sp	P038 "Biological ill Response"	
2.3 be shipped to organisations elsewhere in the UK or abroad?	0	Yes No	Transportation is unlikely, but if re containers within secondary conta labels used. Approved couriers wi	ainment vessels w	ith the appropriate	led hazard	Tra	PP005 - Storage & ensport of blogical Agents v2	

Risk		a * ,	How will this be controlled?	Reference to SOP's / Other documentatio
	×			
5.5. Will this material be received from organisations elsewhere in the UK or abroad?	O 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?	Ø Y€		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?	Ø Ye		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?	O 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?	Ø Y€		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?	O Ye			
5.11. Will a fermenter / bioreactor be used to culture a biological agent or material?	O Ye			
5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)?	O Ye			
5.13 Are any of the following to be used in conjunction with the project?	U or Mu	nogens utagens		
You must complete a cryogen risk assessment before		quid		· '
work begins and add the reference here.	Niti	rogen	Oxygen sensors that activate alarm when oxygen levels are lo	SOP013 "Use ar
	☐ radi	ising iation one		
5.14. Are there any conditions associated with the	C Ye	orking ————		
hazards described in section 5.13 that require additional control measures?	Ø N			
			6. PPE AND HYGENE	
Control Measure	Details		J. TEARDINGERE	Reference to SOPs other documentation

× *.					_			
Control Measure	Details			Reference to SOPs other documentation				
5.1 When will gloves be worn?	At all times in the laboratory. Glove	At all times in the laboratory. Glove will be changed at all appropriate						
5.2 What type and where will they be stored?	Nitrile	rea	u.	CBE code of practice, SOP037				
5.3 When will laboratory coats be worn and wha type are these?	At all times in the laboratory	2	CBE code of practice					
6.4 Where will lab coats be stored and what are the arrangements for cleaning or disposal?	In changing area	SOP037						
5.5 Provide details of any other types of PPE to bused?	Laboratory safety glasses will be wore Face shield (primarily for handling listorage in the CBE as directed by SO Full length aprons will be worn where facility.	rial 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.	Changing room outside lab.			SOP038 - Biological spill response			
5.7 Where are the first aid boxes and emergency spill kits located?	A Jack	All biological spill kits are	in the chan	ges room				
	7. W	ASTE						
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?		e to SOPs / other umentation			
1.71 Liquid waste	Virkon Decontamination according to So Waste"	OP003 "Disposal of Biological	<ul><li>Yes</li><li>No</li></ul>	SOP003 "Di Waste"	sposal of Biological			
	Samples with seeded cells will be treate 24 h the Virkon and samples will be disp		<ul><li>Yes</li><li>No</li></ul>	SOP003 "Di Waste"	sposal of Biological			
Other (Specify)			× -		. *			
7.2 Is any waste being autoclaved?		a · · · · · ·	<ul><li>Yes</li><li>No</li></ul>	Waste", SOF	sposal of Biological 2025 "Use and ee of the Systec claves"			
All cycles have been validated for the actual (If Yes, documentary evidence of the validation		· · · · · · · · · · · · · · · · · · ·	<ul><li>Yes</li><li>No</li></ul>	Figure 60 10 18 (60,000) 10 (10,000)	e and Maintenance c VX-95 Autoclaves"			
The successful completion of every load is ch	necked prior to disposal?	* *	<ul><li>Yes</li><li>No</li></ul>		e and Maintenance c VX-95 Autoclaves"			
7.3 How will liquid waste be disposed of?		5	8 0 2 2 8		ž.			

		2.1		il .			:B					
decides					7. WASTE							
<b>V</b>	To drain?		After treat	ment wi	th virkon		Ø Yes ○ No	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?						2					
	Other (Specify)	e e										
7.4	How will solid waste be	disposed of?	2				*					
Categorisation					Waste stream colour code			Il method				
<b>√</b>	Sharps	- 1	2 E	0	Orange	Yellow/Orange lidded sharps bin > autoclave sterilisation if known or potentially infected > clinical waste disposal (incineration)						
<b>√</b>	Sharps contaminated with cytotoxic or cytostatic material				Purple	Yellow/Purple lidded Sharps bin >clinical waste disposal (incineration @ 1000C)						
	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		rts that have be	een	* * * * * * * * * * * * * * * * * * *		*					
<b>V</b>	Potentially or known in potentially contaminate that have <b>NOT</b> been p	ted with cytotoxic o	r cytostatic ma		Purple	Yellow/Purple clinical waste bags > clinical waste disposal (incineration						
<b>√</b>	Potentially or known ir pretreated before leav		nat have <u>NOT</u> k	oeen	Yellow	Yellow clinical waste bags	> clinical \	waste disposal (incineration)				
<b>V</b>	Infected or potentially pretreated before leav		that <u>HAVE</u> bee	≘n	Orange	Disinfection or sterilisation in the lab site > orange clinical waste bags > clinical waste disposal (incineration)						
				4.0			w <sub>g</sub>					
_					8. MAINTENANC	E						
B.1	Are preventative mainte	enance and monitor	ing regimes in	place for t	he following laboratory (	equipment?						
		Inspection / S Freque		Clea	ning / Disinfection Frequency	Monitoring / Alarms Frequency	E 4	Reference to SOPs				
<b>V</b>	Centrifuges	Weekly inspection during lab clean. Serviced every 2 y		Perform relevant	ed according to SOP		SOP004 – General laborator housekeeping SOP088- "Use and Mainten Sigma 1-14 Microcentrifuge					
				BSC is w	nd after every use the iped down with 1:50	Alarms are present on the to inform if the sash is not		DP009- Use and Maintenance of erasafe KS Class II BSC				

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.

correctly positioned. The

display in the BSC also detailed

the level of air flow which is

monitored and recorded on

Weekly inspections carried out during lab clean.

Serviced every 12 months.

**✓** BSCs

housekeeping

SOP104- Use and Maintenance of

HERASAFE KS Class II re-circulating

SOP004 – General laboratory

		8. MAII	NTENANO	E			
Fume Hoods		e e e			N (*)		
✓ Autoclaves	6 months	monthly cleaning as in SOP. The usage is recorded	The usage is recorded each time it is used and whether		ive 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 SO		Alarms trigg temperatur concentrati		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			that LN2 sto refilled. LN2 stores a temperatur	ore in place any time ores are being are connected to e probes to orage temperatures.	SOP013 – Use and maintenance of liquid nitrogen stores	
Failure contingency plan		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 alarms and thermocouples linked to monitoring system.		SOP016 "Use and maintenance of Fridges and Freezers"	
Failure contingency plan				× -	,		
✓ 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				â	* a	*	
✓ Others	Nucleocounter NC-3000		2		2	SOP121 "Use and maintenance of Chemometec NC3000 Nucleocounter"	
		9. T	RAINING				
9.1. Have all project researc	h workers undertaken safety trainir	ng for working with ha	azardous or p	otentially haz	zardous biological ma	iterials and agents at CL2?	
Na	me of researcher	Had Training		g completed completed)		If no, state why	
Sotiria Toumpaniari		• Yes • No	16 Ja	n 2019			
Maria Pavlidou		Yes   No	15 00	t 2019			
Sotiris Korossis	S.	Yes     No	15 Ma	ar 2019			
9.2. This work involv	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 infec	tious or potentially inf	ectious mate	erial			
	Equipment			N .	Refere	nce to SOPs	
· · · · · · · · · · · · · · · · · · ·							

		10. I	EMERGENCY PRO	OCEDURES				
✓ Within the BSC				SOP006- Selection and Use of Virkon, SOP009- Use and Maintenance of He				
✓ Within the centrifug	ge	e a	SOP088- "Use and Maintenance of Sigma 1-14 Microcentrifuge" SOP308- "Fig. 1-14 Microcentrifuge SOP308- "Fig. 1					
✓ Within the laborato	ry, but outside any primary cor	itrol measures (	(e.g. BSC)	1 - SOP006- Se	election and use of Virkon Disinf	ectant 2- SOP038- Bioloigcal 📻		
Outside the laborate	ory			SOP038 "Biolo	ogical Spill Response". Spill respo	onses are detailed in SOP005		
Are procedures in place	e for the security of these HTA I	Relevant sample	es?					
Loss or theft of samp	ples (including whilst in transit)	e e						
Loss of traceability of	of samples	w		*				
Incorrect disposal of	f samples		* * * * *					
10.2 Describe the proced	ures in place for an accidental e	exposure		2		ş .		
Immediate action wi no rec	in-flood area with running wat th eye wash for 15 minutes, flu ater, hold eye open. For breaka ot suck. Ingestion- contact first a quiring medical attention, indiv d Emergency Department/Min	sh eyeball for 15 ges to skin- enco aider. In the ever viduals should at	omins with cold ourage bleeding, do nt of a serious injury ttend the Accident	Ref to SOP's	CBE SOP038 "Biological Spill Ro	esponse"		
When and whom to report the incident	mediately to laboratory manag	ement and first	aiders. University or	Ref to SOPs	CBE SOP038 "Biological Spill Re	esponse"		
			11. ACCESS					
				Explana	ation	References		
11. Is/are the lab(s) adequ areas (e.g. offices)?	uately separated from other							
11.2. Is/are the lab(s) or o other users not involved in	ther work areas shared with n the project?		status, operator requirements sand Safety Coninclude a detail Practice (CoP), aspects of classibiological ager requirements of procedures incomplete and file, which is he to being grant file must be rev	rs. In order to rs must satis et by CBE manittee. Basi led review of this docume is 2 working in its, waste manifilab equipm luding spill re ocumented in ild in the CBE and access to or viewed and s	o obtain authorised user fy minimum training anagement and Health c training modules the current Code of nt details specific n relation to handling anagement, training nent and emergency	CBE code of practice, SOP004		
			Once authorise responsibility of training needs SOPs and risk a equipment and	of the operate prior to the s ssessments r d/or procedu	been granted, it is the or to identify specific start of new projects. relevant to project res can be used as are live documents and			

		11. A	CCESS					
		must be acquired	continually u l.	ipdated to re	ecord all trai	ning		110
	,	and key personn filled ap	d access to la rights are giv el that have u propriate risk el has no acc	en only to a undergone to assessment	uthorised raining and	have		
11.3. Describe the measures in place to ensure that hazardous biological agents or <b>HTA relevant</b> material is secure		experim storage i with 1% Restricte and key personn filled app	al material wi ent by immer s required m P/S at 4°C. d access to la rights are giv el that have u propriate risk el has no acce	rsing it in 1% aterial will be aboratory. Sween only to a undergone to assessment.	o Virkon for e stored in F wipe card ac uthorised raining and	24h. If PBS cess	SOP005, SOP003	S.A.
		ı2. OCCU	PATIONAL					
12.1. All workers involved with handling unscreened bloc Have all workers involved in this project been immunized		ts and other	tissues are reco	mmended to ha	ave Hepatitis B	immunisati	ion. Ves	
12.2. Is health surveillance required?				n S e s · · · · · · · · · · · · · · · · · · ·	1	¥	○ Yes ⊘ No	
		I NOTU	CATIONS					
13.1. Are any of the cells, tissues or fluids covered by			ICATIONS					
under the University HTA Licence?			. v.					
13.2. Are any of the cells, tissues or fluids obtained from with REC approval for generic research use?	om a HTA license	ed biobank	29					
13.3. Does this work have ethical approval from a rec Ethics Committee?	ognised NHS Res	search			e .			K
13.4. Does any of the work require approval from the Committee?	University Ethic	al		, · , · .	* * * * *			
13.5. Do any of the materials require approval for use Bank Steering Committee (MRC)?	e from the UK Ste	m Cell			5 x			
13.6. Do any of the materials or biological agents list licenses?	ed require any ot	her	2 2 4					
		14 ADD	ROVALS					
G.		14. Al (	NOVALS )		Digitally	y signed	by Professor Sotiris	
Authorised Person	P	rofess	or Sotiris	s Koross	is Korossi	S	0 09:56:42 +01'00'	
Departmental Biological Safety Advisor		* _ ea a	e		-v".	e u		
University Biological Safety Officer (or Deputy)		CU	(au )	C. Ko	Wanooj	n (	on behalf of Julie	
			_ 8		3	1 1	TUTNET)	_
	a				Ö	23/11/-	2020 Page 9 of 10	

## 14. APPROVALS