| | Safety Department use only | Material(s) Classif | Material(s) Classification | | |
|----------------------------|-------------------------------|---------------------|----------------------------|--|--|
| Loughborough University | Reference Number: | Hazard Group 1 | V | | |
| | | Hazard Group 2 | | | |
| Biological Risk Assessment | CBE Use only | GMO . | | | |
| | Reference Number: CBE/BRA/184 | HTA Licensable | | | |

FORM CBE-RA-Form/002 Version 1.0

RISK ASSESSMENT AND PROJECT REGISTRATION FOR WORK INVOLVING BIOLOGICAL MATERIAL

PLEASE READ CAREFULLY

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

Any changes to the work, or the persons involved, must be notified to the 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.

| Principal Investigator | | | | Person conducting this risk assessment |
|------------------------|----------------------------------|--|------------|----------------------------------------|
| Name | Rob Thomas | | Name | Jon Harriman |
| Position | Professor | | Position | Laboratory Technician |
| Department | Centre of Biological Engineering | | Department | Centre of Biological Engineering |
| School | Wolfson of MEME | | School | Wolfson of MEME |

| The Project Activity | | | | | | | | |
|----------------------|-----------------------------------------------------------------------------------------|----------|-------------|----------|--|--|--|--|
| = 0 | Cytolysis impedance assay for Panc-1and A549 cell lines on the ACEA xCelligence system. | | | | | | | |
| Title | i i i i i i i i i i i i i i i i i i i | 8 | | | | | | |
| 6 A B | *. ; ^d | v . | 5 × | 2 | | | | |
| Reference Number | | | | %) 27 | | | | |
| Start Date | 1 Dec 2019 | End Date | 31 Jan 2021 | l | | | | |
| | | | | | | | | |

| | Others involved in the work |
|-------|----------------------------------|
| Names | Katie Glen |
| | Research Associate |
| 15 | Centre of Biological Engineering |
| 1 | Wolfson of MEME |

| Name Jon Harriman | Signature Jon Harriman Date: 2019.11.18 15:51:23 Z | | 18 Nov 2019 |
|-------------------|----------------------------------------------------|--|-------------|
|-------------------|----------------------------------------------------|--|-------------|

| | | 1. INTRODU | JCTION | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 1.1 Background & aim of project | conducted under CBE/BRA/010. dherent pulmonary Celligence system. As nal will decrease, showing the the assay, neutrophils will be DPBS) and negative controls | | | | | | |
| 1.2 Description of experimental proced | wn supplier (Sigma Aldrich, UK). 96 well E-plate at a density of ys in 100uL DMEM + 2mM L-Glut, Triton-X solution will then be d on the xCelligence system for a | | | | | | |
| 1.3 Where will this work be carried out | ? Rooms/areas | H27, H34 | • | | | | |
| | Building(s) | СВЕ | Bo a | | | | |
| 2.1 Human or animal tiss | ues, cells, body flui | ids or excreta will b | e used in this project | | | | |
| | | | FLUIDS OR EXCRETA | | | | |
| 2.2 List all cells, tissues, body flu | uids and excreta to b | oe used. For cells, inc | dicate primary, continuous or finite. | | | | |
| Material type | Organ source | Species | Where it will be obtained (Include country of orig | STATE | | | |
| Panc-1 | Pancreatic carcinoma | Human | Sigma Aldrich, U.K. | , | | | |
| A549 | Lung carcinoma | Human | Sigma Aldrich, U.K. | | | | |
| 2.3 Material(s) listed in so | ection 2.2 above ar | e considered to be | 'relevant material' under the Human | Tissue Act 2004. | | | |
| 2.11 Biological agents wi | ll be used in this p | roject | | | | | |
| | | CLASSIFICATION OF | HAZARD GROUP | NOTE THE REPORT OF THE PARTY OF | | | |
| 3.1. Are you confident that any non-GM cannot potentially pose a threat to hum | | - No. 1 | omponent thereof covered by this assessment | ✓ Yes - Classify as HG1 | | | |
| | | | of cause human disease and potentially be a ly effective prophylaxis or treatment available? | Yes - Classify as HG2 | | | |
| 3.1.2. Can any non-GM organism, tissue a serious hazard to humans and that ma available? | and the second of the second o | | of cause severe human disease and potentially be hylaxis or treatment may or may not be | O Yes | | | |
| 3.2. Do any of the materials contain pat | hogens or toxins covered | d by the Anti-Terrorism Cri | ime and Security Act? | Yes ATCSA Schedule 5 | | | |
| ASSIGNMENT OF CONTAINMEN | ASSIGNMENT OF CONTAINMENT LEVEL CL2 | | | | | | |
| | Δ TIS | SUES, CFLLS RODY | FLUIDS OR EXCRETA | | | | |
| | | 220, 2220, 5001 | | A540 colle will be cultured in | | | |
| The Panc-1 and A549 cells will be cultured in the incubator (37C, 5% CO2) for several days in 100uL DMEM + 2mM L-Glut, 10% FBS medium (per well) for 48-72 hours to form a confluent | | | | | | | |

| | Wel | 4. TISSU | IES, CELLS, BODY FLUIDS O | R EXCRETA | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 4.2. Will any culturing of the material described in a lif Yes, describe which cell(s) will be cultured and unde | | | | | monolayer. Neutrophils / then be added to the mor the cells. The impedance s monitored on the xCellige further 24 hours. | nolayer in order to lyse signal will be |
| 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 | * . | |
| 4.4. What is the maximum volume of culture grown | 1? | | | Per Vessel | 9.6 | а |
| | | | | Number of vessels | 1 . | |
| 4.5. Will the tissues, cells, body fluids or excreta be concentration of adventitious biological agent pre | | | | ○ Yes ② No | - | • • |
| 4.6. Will any of the tissues, cells or fluids be donated access to the labs? | d by y | ou or your | colleagues working in or with | O Yes | | . 8 |
| | | | | | | - |
| | | 5. | RISKS AND CONTROL MEAS | SURES | | |
| Risk | | | How will | this be controlle | d? | Reference to SOP's / Other documentation |
| 5.1. Might infectious droplets, aerosols or splashes be created, either deliberately or by accident? | _ | Yes No | Any / all open manipulation class 2 BSC. | CBE/SOP/009 "Use and maintenance of HERSAFE KS Class II BSC" | | |
| 5.2. Will this material be transported within the laboratory e.g. between BSC & incubator? | 0 | Yes No | Any transport of cells will use seale where reasonably possible (exclud culture format) | | | CBE/SOP/005 "Storage and Transport of Biological Agents". |
| 5.3. Will this material (including waste) be transported locally between sites on campus but outside the laboratory? | 0 | Yes No | 7 | * | , a | * |
| 5.4. Will material(s) listed in, section 2.2 or section 2.3 be shipped to organisations elsewhere in the UK or abroad? | | Yes No | | | | |
| | | | | | | · · |
| 5.5. Will this material be received from organisations elsewhere in the UK or abroad? | © 0 | Yes No | Cells will be purchased from a com will be delivered with relevant doc Cell line in this BRA is an ECACC au | cumentation E.g. C | Certificate of quality. The | CBE/SOP/008 "Receipt of Hazardous Biological Material" FS008.1: HTA-PR- FORM/007 |
| 5.6. Will this material be stored? | Ø 0 | Yes No | Material will be stored in sealed via | CBE/SOP/005 "Storage and Transport of Biological Agents". | | |
| 5.7. Will infectious material be centrifuged? | 0 | Yes No | Cells may be centrifuged in small of analysis protocols. | quantities in sealed | d Eppendorf tubes during | CBE/SOP/134 "Use and Maintenance of Sigma 3-15 centrifuge" |
| 5.8. Are biological samples to be cultured in an incubator? | Ø 0 | Yes No | Cells will be cultured for 48-96 hou destruction via Virkon disinfectant | | wed by analysis and | CBE/SOP/110 - "Use and Maintenance of Sanyo MultiGas Incubator" |

| Risk | | | How will this be controlled? | | Reference to SOP's / Other documentation |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|----------------------------------|-----------------------------|---------------------------------------------|
| 5.9. Are sharps to be used at any stage during this activity? | O Yes O No | 8.T | | | , , |
| 5.10. Are animals to be used in this project? | O Yes No | | | | |
| 5.11. Will a fermenter / bioreactor be used to culture a biological agent or material? | O Yes No | | | | |
| 5.12. Is there any stage within the experimental procedures when an infectious material is inactivated (other than for disposal)? | O Yes O No | | | | |
| 5.13 Are any of the following to be used in conjunction with the project? | Carcinogens or Mutagens | | | | |
| *. | Toxins | 2 | | | |
| 4 ¥ | Liquid Nitrogen | * | | 8 | ā a |
| You must complete a lone working risk assessment | lonising radiation | | | | 1 |
| before work begins and add the reference here. | working | CBE/LW/80 | e e | | |
| 5.14. Are there any conditions associated with the hazards described in section 5.13 that require additional control measures? | O Yes O No | u v | | | |
| | | | | | \$2 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 |
| | | 6. PPE AND | HYGENE | | |
| Control Measure | Details | | e 8 | v | Reference to SOPs / other documentation |
| 6.1 When will gloves be worn? | At all times wit | thin the CL2 laboratory | . | # # # # # # | CBE/SOP/003 CBE/SOP/004 |
| 6.2 What type and where will they be stored? | Nitrile | | In Lab and in Changing Ar | ea | |
| 6.3 When will laboratory coats be worn and what type are these? | At all times wit | thin the CL2 | White Howie | | |
| 6.4 Where will lab coats be stored and what are the arrangements for cleaning or disposal? | First change / | H27 second change | Autoclaved monthly and sent for | external cleaning | |
| 6.5 Provide details of any other types of PPE to be used? | Safety glasses | 0 | | | |
| 6.6 Describe the lab hygiene facilities available and where they are located | Eye wash station | on. Hand wash | First change and all second chan | ge rooms | |
| 6.7 Where are the first aid boxes and emergency spill kits located? | First change | е | H27 second change | a | |
| | | 7. W | ASTE | | |
| 7.1 How will waste be treated prior to disposal | | | | | , y |
| (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? | rence to SOPs / other documentation |

| | | 7. WASTE | | | |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ✓ Liquid waste | waste is then disposed of water. Any remaining waste stream. Liquid w (e.g. small volumes) is thours before disposal dwater. Liquid waste corblue will be disposed o labeling with a non-hal | ved on cycle 6 within a bucket. Autoclaved liqu down the lab sink followed by copious volume g autoclaved solids are placed in the orange aste that is non-autoclavable and non-cytotoxi reated with Virkon tablets (1 tab per 200ml) follown the lab sink follow by copious volumes of the solid that cytotoxic chemicals e.g. Trypaf by collecting in a glass winchester bottle and ogenated chemical waste form and placed in gold disposal at a specialist site. | c 24 n | | CBE/SOP/004 "General Laboratory Housekeeping" CBE/SOP/006 "Selection and Use of Virkon Disinfectant" CBE/COSHH/039 "Virkon" CBE/SOP/003 "Disposal of Biological Waste" CBE/SOP/039 "Storage, Handling and Disposal of Chemicals" |
| ✓ Solid waste | autoclavable bags next The filled bags are auto then placed in a second with a zip tie labeled wi Solid waste that has no packaging or that has be autoclavable will be pla full. The filled bags are I and closed with a zip tie 180202, 180106, 18020: cytotoxic chemicals is p zip tie labeled with the | en in contact with biological material is placed to each BSC and loosely tied when medium fur claved at the earliest opportunity on cycle 4 array orange labeled bio-hazard bag and sealed ith the appropriate codes (180103, 180202). It been in contact with biological material e.g. ieen in contact with chemicals rendering it nor iced in an ordinary bin and tied when medium olaced within a secondary yellow biohazard bag labeled with the appropriate codes (180103, 5). Solid waste that is contaminated with ilaced in a cytotoxic waste bag and sealed with appropriate codes (180103, 180108, 180202, jas pod 2 for collection and disposal at a | II. d | | CBE/SOP/004 "General Laboratory Housekeeping" CBE/SOP/003 "Disposal of Biological Waste" CBE/SOP/039 "Storage, Handling and Disposal of Chemicals" |
| Other (Specify) | 1 | 2 | 2 | 0 | |
| 7.2 Is any waste being autoclaved? | - | | 0 | | CBE/SOP/004 "General Laboratory Housekeeping" CBE/SOP/003 "Disposal of Biological Waste" |
| All cycles have been validated for the actual (If Yes, documentary evidence of the validation | | | Ø 0 | Yes | |
| The successful completion of every load is cl | hecked prior to disposal? | 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 0 | | |
| 7.3 How will liquid waste be disposed of? | | | | | |
| ✓ To drain? | Treated with Vikon | disinfectant tablets. One tablet per 2 | Ø 0 | Yes No | CBE/SOP/003 "Disposal of Biological Waste" |
| As solid waste? | , H | | | | |
| ✓ Other (Specify) | | Yes No | CBE/SOP/003 "Disposal of Biological Waste" | | |
| 7.4 How will solid waste be disposed of? | | | | | |
| Categorisation | Waste stream colour code | Di | sposal r | | |
| ☐ Sharps | | | | | |
| Sharps contaminated with cytotoxic or cyt | ostatic material | | | | |

| | Categorisation | | Waste stream colour code | pisposai memod | | |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|
| Human body parts, organs, including blood bags and blood preserves and excreta that have been pretreated before leaving the site | | | | | 9 | |
| Animal body carcasse pretreated before leav | s or recognisable parts that have b ving the site | een | | a a | | |
| potentially contamina | nfected lab wastes contaminated of ted with cytotoxic or cytostatic ma retreated before leaving the site | | Purple | Yellow/Purple clinical waste bag | s > clinical waste disposal (incineration) | |
| Potentially or known in pretreated before leav | nfected lab wastes that have <u>NOT</u> l ring the site | oeen | Yellow | Yellow clinical waste bags > clini | cal waste disposal (incineration) | |
| Infected or potentially pretreated before leav | infected lab wastes that <u>HAVE</u> bed ing site | en | Orange | Disinfection or sterilisation in the clinical waste disposal (incineration) | e lab site > orange clinical waste bags > ion) | |
| | | | 8. MAINTENANC | 'F | | |
| 8 1 Are preventative mainte | enance and monitoring regimes in | nlace for t | | | | |
| or the preventative manne | Inspection / Servicing Frequency | Clea | ning / Disinfection Frequency | Monitoring / Alarms Frequency | Reference to SOPs | |
| ✓ Centrifuges | Inspected by lab users weekly. Biennial PAT. | Cleaned | weekly | Integrated balancing monitor and alarm. | CBE/SOP/122 | |
| ▼ BSCs | PER and DFV values inspected before each use. Serviced and tested annually. Biennial PAT | | ean before and after e. Full clean weekly. | Integrated air flow monitor and alarm. | CBE/SOP/009 | |
| Fume Hoods | | | a 2 a a | , . | | |
| ✓ Autoclaves | Serviced annually. Pressure inspection annually. | Surroun weekly. | ding area cleaned | Integrated temperature, pressure and water supply monitor and alarm. Monthly maintenance check. | CBE/SOP/024 | |
| ✓ Incubators | Inspected weekly. Biennial PAT | | 2 decontamination months. Pan cleaned weeks. | Integrated monitor and alarm for temperature and gas supply. | CBE/SOP/110 | |
| Liquid N ₂ Stores | Cryobanks inspected and maintained twice weekly. LN2 stocks refreshed weekly. | Surroun weekly. | Low oxygen alarm placed nearby. | | CBE/SOP/013 | |
| Failure contingency plan | Transfer to alternate bank | | | · · · · · · · · · · · · · · · · · · · | | |
| ✓ Freezers | Biennial PAT | Defroste annually | sted and cleaned twice ally. Temperature monitor outside alarm. Month maintenance check are temperature calibrative. | | CBE/SOP/016 | |
| Failure contingency plan | Transfer to alternate freez | er | | 2 | | |
| Fridges | Biennial PAT | Cleared annually | and cleaned twice | Temperature monitor linked to outside alarm. | CBE/SOP/016 | |
| Failure contingency plan | Transfer to alternate fridge | e | * 1 | | | |
| Others | e e | | | 4 | 6 - 3 - 12 - 12 - 12 - 12 - 12 - 12 - 12 | |
| | * | | 8 | | , | |
| 9.2. This work involv | es HTA 'Relevant Material', confirm | that all pr | oject research workers h | nave undertaken HTA training | | |

| Name of researcher | Had Training | d Training Date training completed (or will be completed) | | | e why | 25 | | |
|---------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------|--|
| | | 9. TI | RAININ | G | | | | |
| 9.1. Have all project research workers undertaken safety | training for v | vorking with ha | zardous o | or potentially ha | azardous biological materials an | d agents at CL2? | | |
| Name of researcher | | Had Training | | ning completed be completed) | If no, state | e why | | |
| Jon Harriman | | YesNo | 3 | 0/06/14 | is Some | | | |
| Katie Glen | | YesNo | 0 | 1/06/11 | * / | | | |
| 9.2. This work involves HTA 'Relevant Material', co | onfirm that al | l project resear | ch worker | s have underta | ken HTA training | - ÷ | | |
| | 10 | . EMERGEN | CY PRO | CEDURES | | | | |
| 10.1 Are procedures in place for dealing with spillage of | infectious or | potentially infe | ectious m | aterial | | | | |
| Equipment | | | | | Reference to SOI | Ps | | |
| ✓ Within the BSC | | - | 2 | CBE/SOP/038 | "Biological Spill Response", CBE/ | /SÖP/004 "General Laborato | on | |
| ✓ Within the centrifuge | Di . | - | | CBE/SOP/038 "Biological Spill Response", CBE/SOP/004 "General Laborator | | | | |
| Within the laboratory, but outside any primary cor | trol measure | s (e.g. BSC) | | CBE/SOP/038 "Biological Spill Response", CBE/SOP/004 "General Laborator | | | | |
| ✓ Outside the laboratory | | | | CBE/SOP/008 | "Receipt of Hazardous Biologica | l Material", CBE/SOP/005 "S | ita# | |
| Are procedures in place for the security of these HTA I | Relevant sam | ples? | | | | и | .63 | |
| Loss or theft of samples (including whilst in transit) | | | | - | | | | |
| Loss of traceability of samples | | | | | | | | |
| Incorrect disposal of samples | 20 | , e | 8 13 | | | | | |
| 10.2 Describe the procedures in place for an accidental | exposure | | N. | | 9) | | | |
| Immediately seek medical attent follow exposure section of CBE/S Consult the MSDS of any chemical | OP/038 "Biolo | ogical Spill Resp | | Ref to SOP's | CBE/SOP/038 "Biological Spill F | Response" | 9 | |
| When and whom to report the incident | essary in lab ı | response / first | aid infor | Ref to SOPs | CBE/SOP/050 "Corrective and Preventative Action (CAP/ | | | |
| | | | | | | | NET I | |
| | | 111. | ACCESS | | ation . | Deference | | |
| 11. Is/are the Jah(s) adequately separated from other Ves | | | | Explana | ation | References | $\overline{}$ | |
| 11. Is/are the lab(s) adequately separated from other areas (e.g. offices)? | | | | | CBÉ area map | | | |
| 11.2. Is/are the lab(s) or other work areas shared with | | | the CBE is restric aborato s with a | containmen ted to traine ory managen specific perr | d within H27 and H34 t level 2 laboratory. ed personnel signed off nent and maintenance mit to work in of practice and quality | CBE/SOP/086 "Training and Competancy Assessment" Lab users training fil | les: | |

| | | | CCESS | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------|---------------|------|
| | 1201 | laborato staff. The | ry by any cleaning o | e is no access to the or general maintenanc d outside of core work | e | 27 users. | |
| 11.3. Describe the measures in place to ensure that hazardous biological agents or HTA relevant material is secure | | by the lai workers vaccordar manager laborator staff. The hours (08) with elect have an a assessme the requi | restricted to trained boratory management in a specific permit ce with local code of ment systems. There is locked aboratory and a locked aboratory cards and approved out of howent. Cyrobanks are lefted key must be signons logged. | e CE | BE/SOP/086 raining and ompetancy ssessment" | | |
| | 1 | י חררוו | PATIONAL | | | 2.785 XX | |
| 12.1. All workers involved with handling unscreened bloc Have all workers involved in this project been immunized | od, blood products | | | d to have Hepatitis B immu | nisation | . ØYes ○No | |
| 12.2. Is health surveillance required? | | | | | | ○Yes ⊘No | |
| 13.1. Are any of the cells, tissues or fluids covered by | | 3000000000000000000000000000000000000 | FICATIONS | | | | |
| under the University HTA Licence? 13.2. Are any of the cells, tissues or fluids obtained from with REC approval for generic research use? | om a HTA licensed | d biobank | y 4 | | | x : | |
| 13.3. Does this work have ethical approval from a rec Ethics Committee? | cognised NHS Rese | earch . | = | | | | |
| 13.4. Does any of the work require approval from the Committee? | University Ethica | Ĭ ÷ " | | | | | |
| 13.5. Do any of the materials require approval for use Bank Steering Committee (MRC)? | e from the UK Ster | m Cell | e E | | | | |
| 13.6. Do any of the materials or biological agents list licenses? | ed require any oth | ner | | | | a - 8 | |
| | | 14. APP | ROVALS | | | | |
| Authorised Person | ā | | cokarch | | 9 | | |
| Departmental Biological Safety Advisor | | , | | | | | e le |