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| Health and safety services |

Risk assessment form

Using centrifuges

BIOCONTAMINATED SAMPLES

NOT COVERED

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| **RISK ASSESSMENT DETAILS** | **DEGREE OF RISK** | **RISK RATING MATRIX** |
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| Faculty/School/Service | Earth and Environment |
| Team | Cohen |

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| Risk Assessment Title | Using centrifuges  |
| Risk Assessment Log Reference |  |
| Date | 4/8/2016 |
| Name of Assessors | Andy Connelly |
| Manager Responsible |  |
| Location | Cohen lab suit (level 8 & 9) |
| Details of ActivityUsing centrifuges in the Cohen Laboratory. This includes all centrifuges available within Cohen.  |

Other assessments which might also be required, ✓ if needed:Manual Handling REF COSHH REF Personal Protective Equipment (PPE) ✓ REFNoise REFOther REF |

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| **LIKELIHOOD (L)** |
| 5 | Inevitable |
| 4 | Highly Likely |
| 3 | Possible |
| 2 | Unlikely |
| 1 | Remote Possibility |

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|  |  | **SEVERITY** |
|  **LIKELIHOOD** |  | 1 | 2 | 3 | 4 | 5 |
| 1 | 1 | 2 | 3 | 4 | 5 |
| 2 | 2 | 4 | 6 | 8 | 10 |
| 3 | 3 | 6 | 9 | 12 | 15 |
| 4 | 4 | 8 | 12 | 16 | 20 |
| 5 | 5 | 10 | 15 | 20 | 25 |

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| **SEVERITY (S)** |
| 5 | Very High -Multiple Deaths |
| 4 | High - Death, serious injury, permanent disability |
| 3 | Moderate - RIDDOR over 3 days |
| 2 | Slight - First Aid treatment |
| 1 | Nil - Very Minor |

 | **PERSONS AT RISK** |
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| PERSONS AT RISK |
| Employees |
| Students |
| Clients |
| Contractors |
| Members of the public |
| Work Experience students |
| Other Persons |

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| **REVIEW DATES** |
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| RISK RATING SCORE | ACTION |
| 1 - 4 | Broadly Acceptable - No action required |
| 5 - 9 | Moderate - Reduce risks if reasonably practicable |
| 10 -15 | High Risk - Priority Action to be undertaken |
| **16 -25** | Unacceptable **-Action must be taken IMMEDIATELY** |

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| **HAZARD AND RELATED ACTIVITIES**e.g. trip, falling objects, fire, explosion, noise, violence etc. | **PERSONS** **AT RISK**e.g. Employees, Customers, Contractors, Members of the public | **POSSIBLE OUTCOME** | **RISK RATING BEFORE CONTROLS (LxS)** | **EXISTING CONTROLS**e.g. Guards, Safe Systems of Work, Training, Instruction, Authorised Users, Competent Persons, Personal Protective Equipment (PPE) | **RISK RATING AFTER CURRENT CONTROLS (LxS)** | **FURTHER CONTROLS REQUIRED?** | **RISK RATING AFTER ADDITIONAL CONTROLS (LxS)** |
| Risks from samples | Anyone working in the lab. | Various | Dependent on experiment | Risk assessments of individual experiments should cover these samples. BIOCONTAMINATED (HG2) SAMPLES NOT COVERED | Dependent on experiment |  |  |
| Mechanical failure | Anyone working in the lab. | Death or serious hard from projectiles resulting from failure | 2(l)x4(s)=8 | Follow SOP when using centrifuge including always balance mass and regular maintenance (see SOP) | 1(l)x4(s)=4 |  |  |
| Electric Shock | User | Electrocution or electric burns | 2(l)x4(s)=8 | Regular PAT testing of all electrical equipment | 1(l)x4(s)=4 |  |  |
| Centrifuge tube failure | Anyone working in the lab. | Dependent on experiment | Dependent on experiment | Risk assessments of individual experiments should cover these samples. | Dependent on experiment |  |  |
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| **MANAGEMENT AGREED****ADDITIONAL CONTROL MEASURES REQUIRED** | **ACTIONED BY** | **ACTION COMPLETE** |
| **POSITION** | **NAME** | **DATE** | **MANAGER SIG** | **DATE** |
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| **COMMENTS AND INFORMATION**(Use this section to record any dynamic risk assessment comments and information) |
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| **Do additional controls adequately lower high risk activities to an acceptable level?** | **YES / ~~NO~~**If NO explain in comments box above | **SIGNATURE OF MANAGER**"The risks identified in this assessment are controlled so far as is reasonably practicable" |
| Signature:  | Date:  |