**Manchester Institute of Biotechnology - Risk Assessment Form**



| **Date:** 13/01/15 | **Assessed by**: Fiona Marriage | **Validated by**: Tanya Aspinall | **Location**: MIB  |  | **Review date:** 12/01/16 |
| --- | --- | --- | --- | --- | --- |
| **Task** Use of Microarray Glass Slide Scanners - Innopsys InnoScan 700 Scanner  - Affymetrix 428 Scanner |

| **Activity**  | **Hazard**  | **Person(s) in dange**r  | **Existing measures to control risk**  | **Risk rating**  | **Result**  |
| --- | --- | --- | --- | --- | --- |
| Use of Scanners | Electrical hazard - risk of electric shock | Staff  | All equipment and power supplies are safety tested and regularly maintained. | low | A |
|  | Trailing electrical leads – risk of slips/trips | Staff and others in lab | All excess leads are coiled and taped to minimise the risk of slip/trips. | low | A |
| Use of InnoScan 700 Scanner and/or Affymetrix 428 Scanner  | Laser Risk | Staff and others in lab | Both scanners are digital confocal laser scanning epifluorescent microscopes for viewing fluorescent-dye tagged samples on slides. They house two laser diodes (635nm and 532nm)Under normal operating procedures the lasers are fully enclosed, the user will not come in to contact with the laser and therefore it presents no risk. | low | A |
| Use of Scanning Solutions | Splash – Skin Contact | Staff | Provided all SOPs are followed correctly and Howie style lab coats and disposable EN374 compliant gloves are worn whilst carrying out sample preparation the risk of solutions coming in to contact with the skin is minimal. Regular lab inspections monitor the wearing of PPE; users found not to be wearing PPE when the risk assessment states that it must be worn will be subject to the MIB compliance policy.MSDS sheets are available in the Safety File for all kit components. | low | A |
|  | Broken glass – risk of cuts from broken glass slides | Staff | All glass slides are checked for damage prior to use, and broken/cracked/chipped slides or those damaged during the experimental set up are discarded into the dedicated glass bins for disposal.  | low | A |

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| **Authorisation by PI** **I confirm that I have considered and understand the experiment and the associated hazards. I am satisfied that all of the hazards have been identified and that the control measures to be followed will reduce the risks to acceptable levels.** **Print name: Signed:****Date:** |

**Declaration by researcher**

**I confirm that I have read this Risk Assessment and that I understand the hazards and risks involved and will follow all of the safety procedures stated. Where PPE has been identified as a control measure, I will ensure that it is worn.**

**Declaration by PI**

**I confirm that the researcher who has signed below is competent to undertake the work. My counter-signature indicates that I am happy for the work to proceed.**

| **Name (please print)** | **signed** | **PI countersignature** | **date** |
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