**Risk Assessment Form**

This form is to be filled in if hazard ratings/quantities/dilutions make University procedures and/or “Good Laboratory Practice” insufficient control.

<table>
<thead>
<tr>
<th>Group:</th>
<th>Personnel involved:</th>
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| BRC Cambridge NIHR Immunophenotyping Hub | BD Biosciences / Fumigation company engineers  
also Anna Petrunkina, Simon McCallum, Natalia Savinykh Yarkoni, Veronika Romashova, Tom Nash, Nicola Purslow…. |

**Activity being assessed:**

Routine fumigation of Cl2 microbiological safety cabinets that house AriaIII / Aria Fusion/Influx cell sorter machines with Vaporised Hydrogen Peroxide (Vaprox)

Currently six sorters in total.

Fumigation is co-ordinated between the Cell Sorter company, BD Biosciences and a certified Fumigation Company (this changes frequently)

**Hazards identified:**

- Exposure to Cl2 infectious material
- Injury when sliding the machine outside the MSC onto its custom trolley
- Exposure to sterilant gas
Control measures to reduce level of risk

The machines with associated Microbiological Safety Cabinets must be prepared for fumigation by running Bleach as a sample for 5 minutes. Exterior surfaces should be wiped down with Disinfectant.

All connections to the fluidics cart (if present) should be detached before moving either unit.

For the AriaIII and Ariafusion machines, trolley height must be assessed prior to its attachment to the hood, any discrepancy in height must be corrected by spacer elements (made available to the fumigation engineers) Bolts must secure the structure to the satisfaction of the BD/fumigation engineers.

The lab should be cleared of all staff when fumigation is active. Users and staff are excluded until fumigation engineers confirm safety.

Machines should be replaced by applying the steps above in reverse order.

Emergency procedures

First Aid:

Refer to: Appendix XIII of the Institutes ‘Health and Safety Manual’

Name and status of assessor: Simon McCallum

Date of assessment: 13th March 2023

Signature of assessor:

Revision due date: 13th March 2023