Risk Assessment Form

<table>
<thead>
<tr>
<th>Person responsible:</th>
<th>Personnel involved:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simon McCallum</td>
<td>Staff listed on:</td>
</tr>
<tr>
<td></td>
<td><a href="https://www.med.cam.ac.uk/nihr-cambridge-brc-cell-phenotyping-hub/staff-and-links/">https://www.med.cam.ac.uk/nihr-cambridge-brc-cell-phenotyping-hub/staff-and-links/</a></td>
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Activity being assessed:

Operation and maintenance of AriaII, AriaIII, Fusion and Influx cell sorters

Hazards identified:

1 Laser eye/skin injury-low risk
2 Exposure to Biological Hazard

Control measures to reduce the level of risk

The design of the laser delivery system constrains all beams so there is very little risk to users. Simple laser alignment procedures can be carried out without special measures.

All prospective users must undergo a compulsory induction and fill out and sign a sort-specific FACS Biosafety assessment sheet, which must be approved by Biological Safety Officer Mark Wills. All GMO related sorts must likewise obtain prior approval from GMO Safety Officer Prof. John Sinclair.

All the exposed parts of the machine should frequently be sprayed down with 70% Ethanol.
We have two kinds of waste tanks. (i) Plastic waste tank fluid should have 6 tablets of Virkon added each night after shutdown. (ii) Metal waste tanks should have ~50mls of Distel disinfectant added instead. Gloves and labcoat should obviously be worn for this procedure.

All staff and users must wear blue lab coats whilst in the lab

**Emergency procedures First**

**Aid:**

All suspected laser eye injuries should be reported to the Laser Safety Officer (Simon McCallum 07872525130) and John O’Brien and investigated clinically. All suspected biological exposure incidents must be reported to the Biological Safety Officer (Mark Wills)

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**Assessor:**
Simon McCallum (LSO and Technical Manager)  
**Date of assessment:**  
13th March 2023

**Signature of assessor:**

**Revision due date:**  
13th March 2024