

**Risk Assessment Form**

Title of Assessment

Date of assessment

Department

Date for review

Descriptions of Activities

Name of those working to this assessment

Any others who may be affected by this assessment

Assessment carried out by

**Additional information**

This is an internal and external user facility therefor there will be many people using the equipment, often just a single time. All users will be trained by the facility manager, Dr Jack Woolley, or an approved user and supervised if deemed necessary by him or their immediate supervisors.

This risk assessment covers the regular use of the Flurolog with both the room temperature PMT and the NIR cooled PMT.

Foreseeable Significant Hazard	Existing control measures	Controlled residual risk	Further Action where risk remains moderate/high	By whom & when	Controlled Risk Level
<b>Exposure to Radiation</b>	Light from the Arc Lamp is entirely contained during normal operation. Some possibility of exposure when changing samples but SOPs and PPE cover this.	low			
<b>Exposure to high voltage electricity</b>	The electric systems are entirely closed at all times. Only certified service engineers will have access.	Very low			
<b>Heat from the Arc Lamp</b>	Arc Lamp is located away from the side of the table to avoid accidental contact by the users	low			
<b>Exposure to Cryogens (liquid N<sub>2</sub>) and cold temperatures</b>	Use of Cryogens are accessed under a separate risk assessment. <b>Detector</b> Liquid N <sub>2</sub> is stored in an appropriate Dewar (Cryolab 25) and is inspected before each use. The Equipment provides the flow of the liquid from the Dewar to the detector through a sealed and insulated tube. Cool air is ejected from the other end of the tube periodically, which could cause some mild discomfort	moderate	Tube end is located away from the user and regular pathways around the lab	User and other lab users	low

<b>Exposure to hazardous chemicals</b>	SOPs and PPE will always be in place. Sample sizes will, by necessity, be minimal, bulk sample preparation, solutions etc. will take place elsewhere. Gloves and goggles must be worn at all times when handling chemicals. No noxious chemicals or dangerous gases to be used at any times.	low	In the event of a spill of a harmful substance, SOPs must be followed, and appropriate personnel (Dr Jack Woolley, or Dr James Lloyd-Hughes) must be informed immediately.	Current user, as soon as relevant.	
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**Work should not be carried out until the assessment is completed to a suitable & sufficient level and all required control measures are in place.**

Is assessment suitable and sufficient Yes

Any further actions required to allow work to commence	
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Approved By	Jack Woolley
Date	06/12/22

Position	Research Technology Platform Manager
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Please print a copy, sign it and keep for your records

	Severity of injury				
Likelihood	Superficial	Minor	Serious	Major	Extreme
Unlikely	Very low	Very low	Low	Low	Moderate
Possible	Very low	Low	Low	Moderate	High
Likely	Low	Low	Moderate	High	Very high

Very likely	Low	Moderate	High	Very high	Very high	Overall Risk Rating (highest level found)	low
Extremely likely	Moderate	High	Very high	Very high	Very high		

See 'Matrix for risk evaluation' for further guidance.