

**SAFETY INFORMATION**

<b>NAME OF THE TASK/ACTIVITY</b>	<b>OXFORD NANOIMAGER</b>	<b>DATE: 12/02/2020</b>
<b>LOCATION</b>	ADELAIDE MICROSCOPY, MLS BUILDING, RM 1.22	Insert photo (Optional)
<b>Residual risk rating on the RA</b>	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High	
<b>Hazards identified on the RA</b>	Contact with electricity or potential for electric shock	

**This Safety information should be provided to new users for them to read before undertaking and tasks/activities on the microscope.**

**Pre-operational checks**

YOU MUST NOT USE THIS MACHINE UNTIL YOU HAVE HAD APPROPRIATE TRAINING BY TRAINED ADELAIDE MICROSCOPY STAFF. Unauthorised use may result in damage to the instrument.

**Operational checks/steps to complete the activity from start to finish (including transport and waste disposal where relevant)**

The Oxford Nanoimager is an optical microscope which achieves super-resolution by single-molecule localization (dSTORM and PALM).

These techniques involve localizing only subsets of fluorophores in consecutive frames with high precision (typically better than 20 nm laterally and 50 nm axially), and reconstructing an image from the positions of the localizations.

- The only user operable parts on the Oxford microscope are the specimen stage, and the computer system (mouse and keyboard).
- There is no risk involved in the operation of any of these parts. However, there is potential for electric shock if a user were to remove panels from the back of the microscope, also potentially resulting in damage to the instrument.
- **All new users must have a practical demonstration of the operation of the machine from a member of Adelaide Microscopy staff.**
- **Users should operate the instrument in accordance with the manufacturer supplied operating instructions to avoid damage to the instrument.**
- **The user operable parts are all accessible from the operator's console; users of the instrument should not attempt to remove any fixture or panel from the microscope.**
- **Users should not access the rear of the instrument or the Light box.**
- The safe handling of general laboratory items is detailed in the Adelaide Microscopy laboratory general safety procedures.
- Low stocks of consumable items (gloves, paper towel etc.) should be reported to a member of AM staff.


**On completion of work – steps to make safe (including clean up, any waste disposal & service/maintenance requirements)**

Remove all samples from the instrument and the laboratory after imaging.

**Emergency and Spill Procedures, Transport or storage requirements (where relevant), First aid/Medical**

In the event of an injury, please advise an Adelaide Microscopy staff member and first aid officer for treatment and the local HSW representative to report the incident.

**Prepared by**

People involved in the drafting of this Safety Information	Jane Sibbons Aoife McFadden		
Person authorising the Safety Information	Name:	Angus Netting	Signature 
	Position:	Director, Adelaide Microscopy	

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