Print Risk Assessment

WORKPLACE RISK ASSESSMENT SYSTEM PRINT RISK ASSESSMENT

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Risk Assessment Details ID: RA_SCELSE_119354 Rev No: 1 🕦 Draft ID: 0 🕦										
User's School/ Department/ Student Activity Group:	Singapore Centre for Environmental Life Sciences Engineering	Project Title:	Working in Advanced Biofilm Imaging Facility							
Workplace:	Singapore Centre for Environmental Life Sciences Engineering	Other workplace:	-							
Location:	SBS-B2n-27P	Conducted By:	Foo Yong Hwee(YHFOO);Radek Machan(RADEK.MACHAN)							
Approved By:	Peter Torok (PETER.TOROK@ntu.edu.sg)	Submitted By/Submitted Date:	Foo Yong Hwee/31-Oct-23							
Approved Date:	31-Oct-23	Next Review Date:	30-Oct-26							
Status:	Approved	Comments:	-							

1. Hazard Identification					2. Risk Evaluation				3. Risk Control	
1a.	1b.	1c.	1d.	1e.	2a.	2b.	2c.	2d.	За.	3b.
No.	Work Activity	Hazard	Sub Hazard	Possible Accident/III Health & Person-at-Risk	Existing Risk Control	S	L	R	Additional Risk Control	S
1	Transport of chemicals/biological agents/ media bottles across different laboratories to and from ABIF	Others:Biological/ Chemical	Others:Exposure to chemicals and/or biological agents spill	Others:Depending on the type of biological/chemical agent that may be present, user may suffer symptoms related to the agent.	-Designated carriers or trolley with secondary containment trays shall be used during the transportation. -BSL-2 attire and PPE (i.e. long pants, covered	3	1	3	NA	

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					shoes, lab coat and nitrile gloves) shall be worn. -If a spill occurs, spills shall be contained and cleaned up using appropriate spill kits (chemical or biological spill kit) immediately				
2	Usage of epifluorescence microscope for imaging	Ergonomic	Others:Prolonged straining of eyes due to microscope usage	Others:Eye fatigue	-Take regular breaks between each sample processing.	1	1	1	NA
		Electrical	Contact with electrical energy	Electrocution	-Users must complete NTU OHSE eLearning - Basic Safety Training- Electrical Safety" via NTULearn or Workday@NTU. -When handling power socket, ensure that hands are dry.	4	1	4	NA
3	Usage of Confocal microscope for imaging	Physical	Non-ionisation radiation	Eye injury	-Users shall undergo laser operator check-up, obtain relevant N3 licence and undergo mandatory face to face training for usage of confocal microscope before access to the microscope is granted. -Users shall read and	2	1	2	NA

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						understand ?Generic RA Use of Super Resolution ELYRA and CLSM780 Microscope?.				
						-PPE to be worn shall include Lab coat, long pants, covered shoe and nitrile gloves and laser specific protective glasses.				
			Electrical	Contact with electrical energy	Electrocution	-Users must complete NTU OHSE eLearning - Basic Safety Training- Electrical Safety" via NTULearn or Workday@NTU. -When handling power socket, ensure that hands are dry.	4	1	4	NA
	4	Maintenance of epifluorescence and confocal microscopes	Physical	Others:Contact with hot lamps	Burns/ scalds	-Only authorised users are allowed to change the lamps. -Remove power source and wait for 30minutes before changing the lamp.	1	2	2	NA
			Electrical	Contact with electrical energy	Electrocution	-Main power must be off before maintenance.	4	1	4	NA
	5	Usage of scanning electron microscope	Physical	Others:Finger injury when opening and	Limbs injury	-Users are properly trained on how to open and close the chamber.	2	1	2	NA

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			closing the chamber		-Keep fingers away from the edge of the chamber when opening or closing the chamber.						
		Electrical	Contact with electrical energy	Electrocution	-Users must complete NTU OHSE eLearning - Basic Safety Training- Electrical Safety" via NTULearn or Workday@NTU. -When handling power socket, ensure that hands are dry.	4	1	4	NA		
6	Maintenance of scanning electron microscope	Physical	Others:Contact with hot filament	Burns/ scalds	 Only authorised users are allowed to change the filament. Remove power source and wait for 30minutes before changing the filament. 	1	2	2	NA		
		Electrical	Contact with electrical energy	Electrocution	-Users must complete NTU OHSE eLearning - Basic Safety Training- Electrical Safety" via NTULearn or Workday@NTU. -When handling power socket, ensure that hands are dry.	4	1	4	NA		
7	Disposal of samples	Others:Biological/ Chemical	Others:Exposure to chemicals	Others:Depending on the type of	-Glass slides shall be disposed into designated	3	1	3	NA		

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and/or biological agents spill	biological/chemical agent that may be present, user may suffer symptoms related to the agent.	sharps bin. -Any gloves or containers in contact with biological materials must be disposed in the biohazard bin in the facility. -In the event of a puncture or cut, rinse the wound under running tap water, wash with soap and disinfect with 70% ethanol. Apply pressure with a gauze to stop bleeding and seek first aider assistance. Contact the SCELSE Safety Representative to report the incident and seek immediate medical attention. -BSL-2 attire and PPE (i.e. lange parts. severed	
		(i.e. long pants, covered shoes, lab coat and nitrile gloves) shall be worn.	
		-If a spill occurs, spills shall be contained and cleaned up using appropriate spill kits (chemical or biological spill kit) immediately.	