

# Science Practical Risk Assessment

<b>School of Maths &amp; Science</b>	<b>Practical Activity Title</b> <b>Mitosis</b> (MAS_SP_0009_mitosis_toluidine)	<b>Risk Assessment No.</b> MAS_RA_0009_mitosis_toluidine_afan			
Location	<b>Biology Lab. AA024</b>				
Assessment Performed By	<b>Kathryn Williams</b>	Signature:		Date:	<b>27 Sept 2007</b>
Supported By	<b>Wendy Rees</b>	Signature:		Date:	<b>27 Sept 2007</b>
Approved By	<b>Brian Harris (H.o.S.)</b>	Signature:		Date:	<b>27 Sept 2007</b>
Date of Re-assessment (if necessary)	<b>Re-assess if any changes to procedure or equipment / chemicals are made.</b>				

HAZARDS TO BE CONSIDERED	WHO MIGHT BE HARMED?	IS THE RISK ADEQUATELY CONTROLLED?	WHAT FURTHER ACTION IS NECESSARY TO CONTROL THE RISK?
1. Slipping / Tripping	Staff		
2. Fire	Students		
3. Chemicals / drugs			
4. Moving parts of machinery			
5. Pressure systems		<i>Please complete overleaf</i>	<i>Please complete overleaf</i>
6. Electricity			
7. Dust			
8. Fumes			
9. Manual Handling			
10. Noise			
11. Lighting			
12. Computers			
13. Any other hazards			

**(Please refer to Risk Assessment Matrix to indicate how Severity and Likelihood combine to produce a Risk score)**  
**Likelihood x Severity = Risk Score, = Low, Medium or High risk**

Type & Source Of Hazard	Nature Of The Risk	Type Of Activity In Which Risks May Arise	Control Measures	Risk Rating			L M H	Any Further Control Measures Required
				L	S	R		
Bags & coats	Trip Hazard	Any activity which involves movement around the laboratory	Place all bags & coats etc in designated area in room.	1	1	1	L	
Needles, forceps and Scalpels	Cuts	Risk of injury when picking up & using needles, forceps and scalpels	Ensure good technique is used to avoid holding / touching sharp points and blades.	2	1	2	L	
Glass cover slips & slides	Cuts	Handling & preparing slides	Ensure good technique is used, Take care when handling slides / cover slips to avoid any possible sharp edges.	2	1	2	L	
Hydrochloric acid	Splash to eyes / skin irritation	Adding HCl to watch glass for root tips	The wearing of safety goggles is mandatory during practical activities in the laboratory. 2mol / dm <sup>3</sup> HCl is used which is an irritant not corrosive, any splashes to skin should be washed off immediately.	1	2	2	L	
Toluidine blue stain	Splash to eyes / skin irritation	Staining of hyacinth / onion root cells	The wearing of safety goggles is mandatory during practical activities in the laboratory, any splashes to skin should be washed off immediately.	1	2	2	L	

Type & Source Of Hazard	Nature Of The Risk	Type Of Activity In Which Risks May Arise	Control Measures	Risk Rating			L M H	Any Further Control Measures Required
				L	S	R		
Sun	Eye injury	Using the sun as a light source.	Do not use the sun as a light source, use only the lamps provided.	1	3	3	L	
Lamps	Electrical	General use of lamps.	Use only proprietary lamps designed for Labs and school / college use. Lamps are regularly P.A.T. tested for electrical safety.	1	1	1	L	

INDICATE WHAT FIRST AID ARRANGEMENTS ARE IN PLACE

A science technician (qualified first aid at work) shall be present during all science practical lessons.  
First aid kit available in all science prep rooms (Physics AA022, Chemistry AA0108 & Biology AA024).

Assessment performed by : (Please Print Name)	<b>Kathryn Williams</b>	Position :	<b>Biology / Human Biology Lecturer</b>
Date of Assessment :	<b>27-Sept-2007</b>		
Signed :			

ACTION LIST RECOMMENDATIONS	Risk Rating			L M H	TO BE ACTIONED BY	DATE ACTION COMPLETED	SIGNATURE
	L	S	R				