Science Practical Risk Assessment

School of Maths & Science	**Practical Activity Title**	**D.N.A. From Caviar** (MAS_SP_0004_dna_from_caviar)			**Risk Assessment No.** MAS_RA_0004_dna_from_caviar
Location	**Biology Lab. NB124**				
Assessment Performed By	**Phil Jones**	Signature:		Date:	**09 Jan 2007**
Supported By	**Gareth John**	Signature:		Date:	**09 Jan 2007**
Approved By	**Brian Harris (H.o.S.)**	Signature:		Date:	**09 Jan 2007**
Date of Re-assessment (if necessary)	**Re-assess if any changes to procedure or equipment / chemicals are made.**				

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		***Please complete overleaf***	***Please complete overleaf***
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 lockers provided	1	1	1	L	
Detergents	Allergenic reactions	Used to break down membranes when extracting DNA	Use only dilute solutions of detergent type sodium lauryl sulphate (as used in domestic detergent). Only small quantities used	1	1	1	L	
DNA's	Infection from certain types of viral DNA or from contaminants	Making up & handling DNA solutions and detergents	Avoid potentially hazardous sources of DNA (e.g. viral DNA) use types used in the kits designed for schools	1	2	2	L	
Enzymes	Allergenic reactions	Proteases used when extracting DNA	Only very small quantities of enzymes are used, spills of proteases should be rinsed with water and wiped up promptly	2	1	2	L	
Ethanol (I.M.S.)	Toxicity	Precipitating DNA extracts	Only very small quantities used. Keep off skin and avoid inhalation. Use suitable gloves and ensure laboratory is well ventilated.	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 NB232, Chemistry NB237B & Biology NB124A).

Assessment performed by : (Please Print Name)	**Phil Jones**	Position :	**Biology / Human Biology Lecturer**
Date of Assessment :	**09-Jan-2007**		
Signed :			

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