

**General Risk Assessment****Form RA1**

(Refer to Notes for Guidance before completing this form)

School Assessment No:	R(D)SVS/The Roslin Institute
Title of Activity:	Genes in a Bottle
Location(s), Date and Time of Work:	Easter Bush Science Outreach Centre, Charnock Bradley Building
Brief Description of Work:	
Participants will extract their own DNA using standard protocol and store it in a glass vial pendant.	

Hazard Identification: Identify all the hazards; evaluate the risks (low / medium / high); describe all existing control measures and identify any further measures required. Specific hazards should be assessed on a separate risk assessment form and cross-referenced with this document. Specific assessments are available for hazardous substances, biological agents, display screen equipment, manual handling operations and fieldwork. See <http://www.ed.ac.uk/schools-departments/health-safety/risk-assessments-checklists/risk-assessments> for details.

Hazard(s)	Present Risk Evaluation L/M/H	Control Measures (i.e. alternative work methods / mechanical aids / engineering controls etc.)	Risk Evaluation after control L/M/H
Ethanol Toxic	M	The participants will be wearing eye protection, nitrile gloves and lab coats to prevent skin, eye and clothing contact. Participants warned not to drink. The ethanol will be provided aliquoted in small volumes and held in tubes with screw cap lids. The participants will be closely monitored and younger participants will have the pouring done for them by a demonstrators or accompanying adult.	L

		<p>No naked flames lab.</p> <p>In the event of a spill the ethanol will be mopped up with tissue paper and disposed of safely.</p>	
<p>Extraction buffer (detergent Emetic)</p>	L	<p>The participants will be wearing eye protection, nitrile gloves and lab coats to prevent skin, eye and clothing contact.</p> <p>Participants warned not to drink.</p> <p>The extraction buffer will be handled using plastic pipettes under supervision of a demonstrator.</p> <p>In the event of a spill, the buffer will be mopped up with tissue paper and disposed of safely.</p>	L
Superglue	M	<p>Demonstrators will superglue the vials closed.</p> <p>Demonstrators will wear nitrile gloves to prevent skin contact and hold the glue away from their bodies so as to prevent inhalation of vapours.</p> <p>In the event of a glue spill the glue will be left to harden and then scraped off.</p>	L
Glass vials	L	<p>The participants and demonstrators will be advised that the vials are made of glass and therefore should handle with care, especially when placing on the stopper.</p> <p>Any breakages will be immediately swept up by a demonstrator and placed in glass bin.</p>	L

**Add more rows to table as necessary*

Engineering Controls: Mark relevant boxes with 'x'

Guarding		Extraction (LEV)		Interlocks		Enclosure	
Other relevant information (incl. testing frequency if appropriate):							

Personal Protective Equipment (PPE): Identify all necessary PPE, mark boxes with 'x'.

Eye / Face	x	Hand /Arm	x	Feet / Legs		Respiratory	
Body (clothing)	x	Hearing		Other (Specify)			
Specify the grade(s) of PPE to be worn: lab coats, nitrile gloves, laboratory specs.							
Specify when during the activity the item(s) of PPE must be worn: Entire activity							

Non-disposable items of PPE must be inspected regularly and records retained for inspection

Persons at Risk: Identify all those who may be at risk using 'x'.


Academic staff	x	Technical staff	x	P'Grad students	x	U'Grad students	
Maintenance staff		Office staff		Cleaning staff		Emergency personnel	
Contractors		Visitors	x	Others			

Additional Information: Identify any additional information relevant to the activity, including supervision, training requirements, special emergency procedures, requirement for health surveillance etc.

All volunteers on the stand will receive training, including H&S aspects, before running the activities for the public.

Children taking part in the activities will be accompanied by a responsible adult at all times.

Assessment carried out by:

Name:	Jayne Quoiani	Date:	25/09/2018
Signature:		Review Date:	