

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

(Refer to Notes for Guidance before completing this form)

<b>School Assessment No:</b>	R(D)SVS/The Roslin Institute
<b>Title of Activity:</b>	Dolly, DNA & Me Primary workshop
<b>Location(s), Date and Time of Work:</b>	Easter Bush Science Outreach Centre, University of Edinburgh, Easter Bus, EH25 9RG. Please see separate EBSOC visit RA form for dates and times.
<b>Brief Description of Work:</b>	
<p>A hands-on workshop exploring DNA and inheritance for P6 and P7 pupils. Participants work in small groups on a series of interactive activities and are supervised at all times by staff and students from the University of Edinburgh and staff/adult helpers from their school.</p> <p><b>Workshop Activities</b></p> <p><i>Cell model:</i> Create your own model cell.</p> <p><i>Your cells up close:</i> Sample your cheek cells using a toothpick, prepare a microscope slide and examine your cells using a light microscope.</p> <p><i>Visible and invisible traits:</i> Examine visible traits by comparing yourself to your fellow pupils and take a taste test to explore one of your invisible traits. Discuss which of these might be inherited.</p>	

**Hazard Identification:**

<b>Hazard(s)</b>	<b>Present Risk Evaluation</b> L/M/H	<b>Control Measures</b> (i.e. alternative work methods / mechanical aids / engineering controls etc.)	<b>Risk Evaluation after control</b> L/M/H
Cell model: Slips and trips if cell contents fall on floor.	L	The materials for the model will be stored in Gratnell trays. Any materials that fall onto the floor will be cleaned up immediately.	L
Your cells up close: Biohazard from swabbing.	L	Only sterile individually packaged swabs will be used. Only one swab will be given out to each participants. Swabs will be discarded as soon as they are finished with.	L
Your cells up close: Sharps hazard if microscope slides are broken.	L	Activity will be supervised at all times. Only one slide and cover slip will be given to each participant. Any broken slides or cover slips will be cleared up immediately by staff and disposed of safely.	L

Your cells up close: Slips and trips from spilled cell staining liquid.	L	Only small amounts of cell stain (commercially available food colouring) will be provided to each participant. Any spills will be cleared up immediately by staff.	
Your cells up close: Crush injuries if microscopes pulled off benches.	L	Microscope use will be supervised at all times. Any leads/wires will be tidied away behind microscope to reduce the risk of them being pulled.	L
Visible and invisible traits: PTC (phenolphthalein-carbamide) can be toxic in high doses.	M	Participants will be closely supervised and only permitted to taste one PTC strip, keeping their intake well below the recommended limit.	L

**Engineering Controls:** None required.

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

**Personal Protective Equipment (PPE):**

Eye / Face	x	Hand /Arm	x	Feet / Legs		Respiratory	
Body (clothing)	x	Hearing		Other (Specify)			
<b>Specify the grade(s) of PPE to be worn:</b> Reusable safety glasses and lab coats. Disposable nitrile gloves.							
<b>Specify when during the activity the item(s) of PPE must be worn:</b> Lab coats will be worn throughout the workshop, safety glasses and nitrile gloves will be worn during the Your Cells Up Close and DNA Pendant activities.							

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


**Persons at Risk:**

Academic staff	x	Technical staff	x	P'Grad students	x	U'Grad students	
Maintenance staff		Office staff	x	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 workshop demonstrators will receive training, including H&S aspects, before running the activities for visiting groups. Children taking part in the activities will be accompanied by a responsible adult at all times and school classes will be accompanied by a teacher/staff member from their school.
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**Assessment carried out by:**

Name:	Nicola Stock	Date:	14 <sup>th</sup> Feb 2018
Signature:		Review Date:	31 <sup>st</sup> Aug 2019