

Risk Assessment – VI-RA-018- Transformation of B-cells

Scope

Lymphoblastoid cell lines (LCLs) are generated by Epstein-Barr Virus (EBV) transformation of the B-lymphocyte component within the peripheral blood lymphocyte (PBL) population. The generation of an LCL from a human blood sample can be regarded as a long term means of protecting the genomes of valuable study subjects. Cell line DNA generated from these cell lines can be widely distributed, representing a potentially limitless source of the subject's genome that will be available many years after venesection allowing follow-on studies that may not have been originally anticipated or which are only possible with the development of new technologies.

Carried out by:	Tiphaine Bouriez-Jones	Date carried out:	May 2015	Review Due:	May 2018	
Hazard (Cause and consequence)	Affected Groups	Existing controls			Risk	Further actions
Exposure to Trypan Blue Health hazard: H350 May cause cancer	Staff, students and visitors	Chemical stock are available in solution only. Via skin adsorption: User must wear gloves and labcoat at all time. Only plastic slides will be used to reduce the risk of cut. Via instillation (eye): User must wear safety spectacles at all time. See specific COSHH risk assessment.			Medium	None
Exposure to Virkon powder or Virkon solution	Staff, students and visitors	Via inhalation: stock of powdered Virkon kept away from draft, with its lid in place. Via skin adsorption: User must wear gloves and labcoat at all time. Via instillation (eye): User must wear safety spectacles at all time. See specific COSHH risk assessment.			Medium	None
Exposure to Cyclosporine A Health Hazard: H302 Harmful if swallowed. H350 May cause cancer.	Staff, students and visitors	Users are trained to use and store chemicals safely. Inhalation: Powder must be weight out and resuspended in a fume cupboard only. Skin adsorption: Users must wear gloves whilst working in CL2 laboratories.			Medium	Check on LeV



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H360 May damage fertility or the unborn child.		Eye instillation: users must wear safety spectacles at all time whilst working in CL2 laboratories. See specific COSHH risk assessment.		
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It is the users responsibility to ensure what controls are needed to ensure that the health of themselves and others around them. It is imperative that you **DO NOT** start any work until you are absolutely sure of the appropriate precautions that need to be employed. If you are unsure seek advice from your line/laboratory manager or your departmental safety officer (DSO).