

NDMRB-RA-082

Risk Assessment: Handling and usage of lentiviral particles

Scope

All personnel have a duty of care to themselves and to those around them. The risks identified and set out in this document will enable persons to employ the relevant health and safety measures required to be able to handle and work with lentiviral particles. Personnel must make sure that their work is carried out in the approved way and in accordance with University policy (The Genetically Modified Organisms (GMO) Regulations – HSE (<http://www.hse.gov.uk/biosafety/GMO/index.htm>))

https://www1.admin.ox.ac.uk/media/global/wwwadminoxacuk/localsites/healthsafety/oxonly/documents/UPS_0611.pdf

Lentiviruses of 2nd generation used are commercially available by Thermofisher and Addgene. The following link summarizes the biosafety features associated with (https://media.addgene.org/cms/filer_public/77/b8/77b83966-2186-4ff3-83dd-5138a88eb933/addgene_lentivirus_sds.pdf)

Lentiviral particles are replication-incompetent, self-inactivating and non-pathogenic (do not cause infectious human disease). 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).

Name of assessor:	Dylan Jones	Date of Assessment:	Sept 2017	Review Date:	Every three years
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Risk Matrix:

Risk Matrix		Likelihood			
		High	Medium	Low	Negligible
Consequence	Severe	High	High	Medium	Effectively Zero
	Moderate	High	Medium	Medium/low	Effectively Zero
	Insignificant	Medium/Low	Low	Low	Effectively Zero
	Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero

Risk Assessment:

Hazard (Cause and consequence)	Affected Groups	Existing controls	Risk	Further Action
A substance which if it is inhaled, ingested or if it penetrates the skin may involve limited health risks	Staff Students Visitors	<ul style="list-style-type: none"> • Must be handled in a tissue culture cabinet Class II • Users must wear safety glasses, lab coat and relevant gloves • Avoid the use of sharps and needles • Autoclave required on site • Specified disinfection procedures in place (bleach (presept), ethanol) • Users must read and understand relevant COSHH and MSDS 	Low	None

Signed By Author:

Approved by (sign and print):

Reviewed by:

Review date: