The purpose of this table is to provide guidance to help in the identification of which schedules to review in the Regulations by providing a high-level overview of some of the common dealings and conditions. Please note that each dealing has highly specific conditions listed within the Regulations that must be read in full to determine the correct classification.

	Example parent organism/vector combinations.	Examples of common conditions	Schedules to review
	(review the linked schedules for full conditions)	(review the linked schedules for full conditions)	
Exempt Dealings	 Caenorhabditis elegans; An animal into which genetically modified somatic cells have previously been introduced; An animal whose somatic cells have previously been genetically modified <i>in vivo</i> by a replication defective viral vector; Isolated cells, tissues or organs derived from GMO animals or plants Parent organism/vector combinations in the exempt host/vector list at the back of this document. Shotgun cloning or preparation of cDNA library in exempt hosts from Items 1-6 in list at the end of this document. 	 Cannot give rise to infectious agents (for animals and <i>C. elegans</i>). <i>C. elegans</i> must not have a genetic advantage because of the modification. Animals cannot be infected with a virus that is capable of recombining with the genetically modified nucleic acid in the somatic cells. Animals must not have germ line cells genetically modified. For exempt parent organisms/vectors from the list at the back of this document: Donor nucleic acid either must <u>not</u> be derived from a pathogen, or it must be characterised and shown to be unlikely to increase the capacity of the parent organism or vector to cause harm. Donor nucleic acid must <u>not</u> encode a toxin, and must <u>not</u> be uncharacterised nucleic acid from a toxin producing organism. If the donor nucleic acid contains a viral sequence, it cannot be capable of producing a virus when introduced into any host species, and it cannot restore replication competence to a viral vector. Less than 25 litres of GMO culture per vessel. 	Schedule 2, Part 1

	Example parent organism/vector combinations.	Examples of common conditions	Schedules to review
	(review the linked schedules for full conditions)	(review the linked schedules for full conditions)	
Notifiable	• Laboratory guinea pig, mouse, rabbit or rat with	Conditions vary depending on the type of dealing	PC1 NLRD – <u>Schedule 3,</u>
Low Risk	no genetic advantage (PC1)	undertaken. Please read the relevant schedules in full	Part 1, 1.1
Dealings	In vitro dealings with replication defective	to determine if your work meets the conditions, and	
(NLRD)	Human adenovirus or adeno-associated virus	contact the IBC for assistance (<u>ibc@adelaide.edu.au</u>).	PC2 NLRD – <u>Schedule 3,</u>
	(PC1)		Part 2, 2.1
	• Animals other than laboratory guinea pig,	All viral vectors must be replication defective. For some	
	mouse, rabbit, rat or C. elegans (PC2)	(e.g., retroviral vectors) the method of achieving this is	PC3 NLRD – <u>Schedule 3,</u>
	• Laboratory guinea pig, mouse, rabbit, rat or C.	specified in the conditions.	Part 2, 2.2
	elegans with a genetic advantage (PC2)		
	Whole plants (PC2)	Excludes genetic modifications that confer toxin	
	Risk group 2 microorganisms (PC2)	production.	
	Complementation studies (PC2)		
	• Shotgun cloning or cDNA libraries in non-	Excludes gene drive modifications.	
	exempt hosts (PC2)		
	• Exempt hosts with non-exempt modifications	Generally excludes work that may increase the	
	(PC2)	pathogenicity or virulence of the host.	
	 Non-exempt hosts (PC2) 		
	 In vitro and in vivo dealings with replication 	Excludes <i>in vivo</i> dealings with viral vectors that are able	
	defective viral vectors, including non-retroviral,	to transduce human cells, if the dealing involves	
	lentiviral and retroviral vectors (PC2).	immunomodulatory or oncogenic modifications.	
	 Risk group 3 microorganisms (PC3) 		
		As the University does not operate a PC2 large scale	
		facility, cannot undertake dealings producing more	
		than 25 litres of GMO culture per vessel.	
		Please note that the University does not operate PC3	
		facilities, and therefore dealings requiring this level of	
		containment cannot be endorsed.	

	Example parent organism/vector combinations.	Examples of common conditions	Schedules to review
	(review the linked schedules for full conditions)	(review the linked schedules for full conditions)	
DIR	Work involving the release of GMOs into the	These applications result in a licence from the OGTR	
licence	environment.	which will specify the relevant conditions.	
	Typically this will include field trials of GM plants.		
		Before preparing a DIR licence, please contact the IBC	
	May also include some clinical or veterinary trials	for discussion of your requirements.	
	occurring outside of containment facilities, for		
	example, where the GMO may be shed from the host.		
DNIR	Any host/vector combination where the conditions for	DNIR conditions can vary outside of what is listed in	Schedule 3, Part 3
licence	exempt or NLRD dealings are not met.	the Regulations. If you are undertaking a dealing that	
		does not clearly fit within the scope of an exempt or	
	Some clinical or veterinary trials occurring outside of	notifiable low risk dealing, but is being undertaken in	
	containment facilities, for example, where the GMO remains contained or is not shed from the host.	containment, it will likely fall within the DNIR category.	
		Before preparing a DNIR licence, please contact the	
		IBC for discussion of your requirements.	
		Please note that the University does not operate PC3 or	
		PC4 facilities, and therefore dealings requiring this	
		level of containment cannot be endorsed by the IBC or	
		OGTR.	

Exempt Parent Organism/Vector Combinations (with conditions – refer to <u>Schedule 2, Part 1, Item 4</u>).

Parent Organisms and vectors

- (1) A reference to a host (parent organism) mentioned in this Part is a reference to a host mentioned in column 2 of an item of the table in this clause.
- (2) A reference to a vector mentioned in this Part is a reference to a vector mentioned in column 3 of an item of the table in this clause.
- (3) A reference to a *host/vector system* mentioned in this Part is a reference to any of the following:
 - (a) a system involving a host (parent organism) mentioned in column 2 of an item of the table in this clause and a vector mentioned in column 3 of the same item;
 - (b) a non-vector system involving a host mentioned in column 2 of an item of the table;
 - (c) a system involving a GMO mentioned as a vector in column 3 of an item of the table (except item 7), without a host.

Hosts and vectors

Item	Column 1	Column 2	Column 3
	Host class	Hosts	Vectors
1	Bacteria	Escherichia coli K12, E. coli B, E. coli C	Any of the following:
		or <i>E. coli</i> Nissle 1917—any derivative	(a) non-conjugative plasmids;
		that does not contain:	(b) lambda bacteriophage;
		(a) generalised transducing phages; or	(c) lambdoid bacteriophage;
		(b) genes able to complement the	(d) Fd, F1 or M13 bacteriophage
		conjugation defect in a non-conjugative plasmid	
2	Bacteria	Bacillus—asporogenic strains of the	Any of the following:
		following species with a reversion	(a) non-conjugative plasmids;
		frequency of less than 10 ⁻⁷ :	(b) other plasmids and phages whose host
		(a) B. amyloliquefaciens;	range does not include <i>B. cereus</i> , <i>B</i> .
		(b) B. licheniformis;	anthracis or any other pathogenic strain
		(c) B. pumilus;	of Bacillus
		(d) B. subtilis;	
		(e) B. thuringiensis	
3	Bacteria	Pseudomonas putida strain KT2440	Non-conjugative plasmids
4	Bacteria	The following Streptomyces species:	Any of the following:
		(a) S. aureofaciens;	(a) non-conjugative plasmids;
		(b) S. coelicolor;	(b) plasmids SCP2, SLP1, SLP2, pIJ101 and
		(c) S. cyaneus;	derivatives;
		(d) S. griseus;	(c) actinophage phi C31 and derivatives
		(e) S. lividans;	
		(f) S. parvulus;	
		(g) S. rimosus;	
		(h) S. venezuelae	
5	Bacteria	Any of the following:	Disarmed Ri or Ti plasmids
		(a) Agrobacterium radiobacter;	
		(b) Agrobacterium rhizogenes (disarmed	
		strains only);	

ltem	Column 1	Column 2	Column 3
	Host class	Hosts	Vectors
		(c) Agrobacterium	
		tumefaciens (disarmed strains only)	
6	Bacteria	Any of the following:	Non-conjugative plasmids
		(a) Allorhizobium species;	
		(b) Corynebacterium glutamicum;	
		(c) <i>Lactobacillus</i> species;	
		(d) Lactococcus lactis;	
		(e) Oenococcus oeni syn. Leuconostoc	
		oeni;	
		(f) Pediococcus species;	
		(g) Photobacterium angustum;	
		(h) Pseudoalteromonas tunicata;	
		(i) <i>Rhizobium</i> species;	
		(j) Sphingopyxis	
		alaskensis syn. Sphingomonas	
		alaskensis;	
		(k) Streptococcus thermophilus;	
		(l) Synechococcus species strains PCC	
		7002, PCC 7942 and WH 8102;	
		(m) <i>Synechocystis</i> species strain PCC	
		6803;	
		(n) <i>Vibrio cholerae</i> CVD103-HgR;	
		(o) Zymomonas mobilis	
7	Fungi	Any of the following:	All vectors
		(a) Kluyveromyces lactis;	
		(b) Neurospora crassa (laboratory	
		strains);	
		(c) Pichia pastoris;	
		(d) Saccharomyces cerevisiae;	
		(e) Schizosaccharomyces pombe;	
		(f) Trichoderma reesei;	
		(g) Yarrowia lipolytica	
8	Slime	Dictyostelium species	Dictyostelium shuttle vectors, including
	moulds		those based on the endogenous plasmids
			Ddp1 and Ddp2
9	Tissue	Any of the following if they cannot	Any of the following:
	culture	spontaneously generate a whole animal:	(a) plasmids;
		(a) animal or human cell cultures	(b) replication defective viral vectors
		(including packaging cell lines);	unable to transduce human cells;
		(b) isolated cells, isolated tissues or	(c) polyhedrin minus forms of the
		isolated organs, whether animal or	baculovirus Autographa californica nuclear
		human;	polyhedrosis virus (ACNPV)
		(c) early non-human mammalian	
		embryos cultured <i>in vitro</i>	
10	Tissue	Either of the following if they are not	Any of the following:
	culture	intended, and are not likely without	

Hosts and vectors

Item	Column 1	Column 2	Column 3
	Host class	Hosts	Vectors
		human intervention, to vegetatively	(a) Disarmed Ri or Ti plasmids
		propagate, flower or regenerate into a	in Agrobacterium
		whole plant:	radiobacter, Agrobacterium
		(a) plant cell cultures;	rhizogenes (disarmed strains only)
		(b) isolated plant tissues or organs	or Agrobacterium tumefaciens (disarmed
			strains only);
			(b) non-pathogenic viral vectors

Definitions

code for, in relation to a toxin, means to specify the amino acid sequence of the toxin.

non-conjugative plasmid means a plasmid that is not self-transmissible, and includes, but is not limited to, non-conjugative forms of the following plasmids:

- (a) bacterial artificial chromosomes (BACs);
- (b) cosmids;
- (c) P1 artificial chromosomes (PACs);
- (d) yeast artificial chromosomes (YACs).

non-vector system means a system in which donor nucleic acid is or was introduced into a host cell:

- (a) in the absence of a nucleic acid-based vector; or
- (b) using a nucleic acid-based vector in the course of a previous dealing and the vector is:
- (i) no longer present; or
- (ii) present but cannot be remobilised from a host cell.

Example 1: A system mentioned in paragraph (a) might involve the use of electroporation or particle bombardment.

Example 2: A system mentioned in paragraph (b) might involve cells that were transduced with a replication defective retroviral vector in which no vector particles remain.