

Animal experiments covered under the NIH Guidelines for Research Involving Recombinant DNA Molecules



Creation of transgenic rodents BL1 IIIE-3 Creation of transgenic rodents BL2 or higher III-D-4-b Creation of transgenic animals other than rodents BL1/BL1-N III-D-4-a Creation of transgenic animals other than rodents BL2/BL2-N or higher III-D-4-b Creation of recombinant DNA modified arthropods BL1 III-D-4-a Creation of recombinant DNA modified arthropods BL2 or higher III-D-4-b Creation of knock-out rodents BL2 or higher III-D-4-b Creation of knock-out rodents BL2 or higher III-D-4-b BREEDING OF TRANSGENIC ANIMALS Breeding rodents from one strain (propagation/colony maintenance) BL1 Exempt (III-F-4) Breeding rodents from two strains (propagation/colony maintenance) BL2 or higher III-D-4-b Breeding rodents from two strains (generating new strain) BL2 or higher III-D-4-b Breeding rodents from two strains (generating new strain) BL2 or higher III-D-4-b Breeding of transgenic animals other than rodents BL1 III-D-4-b Breeding of transgenic animals other than rodents BL1 Ex	ACTIVITY	MINIMUM BSL	SECTION
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Experiments with recombinant DNA modified arthropods associated with plants Experiments with recombinant DNA modified arthropods associated with plants Experiments with recombinant DNA modified arthropods not associated with plants BL1 III-E-2-b-(5). BL2 or higher III-E-2 Experiments with recombinant DNA modified arthropods not associated with plants BL1 III-E-2-b-(5).	Experiments with transgenic animals other than rodents	BL1	III-D-4-a
Experiments with recombinant DNA modified arthropods associated with plants Experiments with recombinant DNA modified arthropods not associated with plants BL2 or higher III-E-2 III-D-4-a	Experiments with transgenic animals other than rodents	≥ BL2 set by IBC	III-D-4-b
Experiments with recombinant DNA modified arthropods not associated with plants BL1 III-D-4-a		BL1	III-E-2-b-(5).
	Experiments with recombinant DNA modified arthropods associated with plants	BL2 or higher	III-E-2
Experiments with recombinant DNA modified arthropods not associated with plants BL2 or higher III-D-4-b	Experiments with recombinant DNA modified arthropods not associated with plants	BL1	III-D-4-a
	Experiments with recombinant DNA modified arthropods not associated with plants	BL2 or higher	III-D-4-b

^{*}The purchase or transfer of transgenic rodents requiring BL1 containment is exempt under Appendix C-6. Subsequent use of these animals is also exempt providing the experimental protocol does not involve the use of recombinant DNA. If the protocol does involve the use of recombinant DNA then the research is covered under III-D-4-a. All experiments involving the use of other transgenic animals at any Biosafety Level and the use of transgenic rodents requiring BL2 or higher containment are subject to the *NIH Guidelines*. See above for applicable sections.

EXPERIMENTS WITH R-DNA IN AN ANIMAL (TRANSGENIC OR OTHERWISE)			
Experiments with r-DNA modified microbes in any animal (transgenic or otherwise)	BL1/BL1-N	Not permitted at BL1*	
Experiments with RG2 r-DNA modified microbes in any animal (transgenic or otherwise)	BL2/BL2-N	III-D-1-a	
Experiments with RG3 r-DNA modified microbes in any animal (transgenic or otherwise)	BL3/ BL3-N	III-D-1-b	
Experiments with RG4 r-DNA modified microbes in any animal (transgenic or otherwise)	BL4/BL4-N	III-D-1-c	
Experiments with r-DNA modified restricted agent in an animal (transgenic or otherwise)	BL4/BL4-N	III-D-1-d	
Experiments with r-DNA modified animal pathogens in an animal (transgenic or otherwise)	BL4/BL4-N	III-D-1-d	
Introduction of less than 2/3 of eukaryotic viral genome into a non-human vertebrate or invertebrate	BL1/BL1-N	III-D-4-a	
Propagation of animals containing viral vector sequences not leading to transmissible infection	BL1/BL1-N	III-D-4-a	
Experiments with R-DNA involving whole animals not covered by Sections III-D-1or III-D-4-a	Set by IBC	III-D-4-b	
* Other than viruses which are only transmitted vertically, the experiments may not be conducted at BL1. A minimum of BL2 or BL2-N is required.			
CLONING ANIMALS			
Cloning animals	BL1 or higher	Not covered	
PURCHASE OR TRANSFER OF TRANSGENIC ANIMALS			
Purchase or transfer of transgenic rodents	BL1	Exempt (Appendix C-6)	
Purchase or transfer of transgenic rodents	BL2 or higher	III-D-4	
Purchase or transfer of transgenic animals other than rodents	BL1	III-D-4	
Purchase or transfer of transgenic animals other than rodents	BL2 or higher	III-D-4	
Purchase or transfer of recombinant DNA modified arthropods	BL1	III-D-4	
Purchase or transfer of recombinant DNA modified arthropods	BL2 or higher	III-D-4	
PLANT EXPERIMENTS WITH ANIMALS OR ARTHROPODS			
Experiments with microorganisms or insects containing recombinant DNA with the potential for	BL3-P or BL2-P plus	III-D-5-a or	
detrimental impact to ecosystems.	biological containment	III-D-5-b	
Experiments with exotic infectious agents in the presence of arthropod vectors	BL4-P	III-D-5-c	
Experiments with microbial pathogens of insects or small animals associated with plants with the potential	BL3-P or BL2-P plus	III-D-5-e	
for detrimental impact to ecosystems.	biological containment		
Small animals associated with recombinant DNA-modified plants.	BL1	III-E-2	
Experiments with rDNA-modified arthropods or small animals associated with plants	BL1	III-E-2-b-(5).	
OTHER			
Transfer of a drug resistance to microorganisms compromising the use in veterinary medicine	Set by NIH (case by case)	III-A-1-a	

The NIH Guidelines for Research Involving Recombinant DNA Molecules (NIH Guidelines) are available at http://www4.od.nih.gov/oba/rac/guidelines/guidelines.html

For further information about the requirements of the NIH Guidelines, please visit the NIH Office of Biotechnology Activities web page at http://www4.od.nih.gov/oba/ or write to us at oba@od.nih.gov