

Genetically Modified (GM) Animals and Plants

Do I Need IBC Approval?

Activity (not an inclusive list)	IBC Approval Required -- full committee review at a monthly meeting	IBC Approval Required -- review by IBC Chair on behalf of committee	No IBC Approval Required
GM Rodents			
Purchasing an existing line of GM rodents from a commercial vendor or repository (e.g. Jackson Labs) that can be housed at BL-1 containment			X
Purchasing an existing line of GM rodents from a commercial vendor or repository (e.g. Jackson Labs) <i>requiring BL-2 (or higher) containment</i>	X		
The transfer of GM rodents (from one PI to another) that can be housed at BL-1 containment			X
The transfer of GM rodents (from one PI to another) <i>requiring BL-2 (or higher) containment</i>	X		
Breeding rodents from one strain (propagation/colony maintenance) at BL-1 containment			X
Breeding rodents from one strain (propagation/colony maintenance) <i>requiring BL-2 (or higher) containment</i>	X		
Breeding two GM rodents to create a new GM strain that can be housed at BL-1 containment (see Note A)			X
Breeding of a GM rodent and a non-GM rodent to create a new GM strain that can be housed at BL-1 containment (see Note A)			X
Breeding rodents from two different strains to create a new GM strain <i>requiring BL-2 (or higher) containment</i>	X		
Creation of new GM rodents as a fee for service (e.g. TIGM, Biocytogen, Cyagen, Taconic Biosciences, Applied StemCell, etc.) (see Note B)	X		
GM Animals (other than rodents, including insects)			
Purchase, transfer, breeding and creation of GM animals	X		
GM Plants			
Experiments involving nucleic acid molecule-modified whole plants	X		
Experiments involving recombinant or synthetic nucleic acid molecule-modified organisms associated with whole plants	X		
Creation of modified plants using biolistic bombardment		X	
GM plants created by <i>Agrobacterium</i> -mediated transformation	X		

Note A: No IBC approval needed if:

1. Both parental rodents can be housed at BSL-1 containment **and**
2. Neither parental transgenic rodent contains the following genetic modifications:
 - a. Incorporation of more than one-half of the genome of an exogenous eukaryotic virus from a single family of viruses
 - b. Incorporation of a transgene that is under the control of a gammaretroviral long terminal repeat (LTR) **and**
 - c. The transgenic rodent that results from this breeding is not expected to contain more than one-half of an exogenous viral genome from a single family of viruses

Note B: Either the company **OR** the researcher must have IBC approval, prior to the generation of the new rodent.