

**INSTITUTIONAL BIOSAFETY COMMITTEE
SAN JOSÉ STATE UNIVERSITY
BIOLOGICAL USE AUTHORIZATION APPLICATION**

Attachment G.

Research Organisms – Vertebrates, Invertebrates, or Plants

Check all that apply. Make sure to include details in the attached SOP.

- We will be introducing materials into research organisms (Complete Table I)
 - We will be introducing recombinant DNA into research organisms. (Complete Tables II-III (animals) or Tables IV-V (plants) and [Attachment A](#))
 - We will be introducing infectious materials into research organisms. (Complete Tables II-III (animals) or Tables IV-V, and [Attachment B](#))
 - We will be introducing unfixed human or non-human primate organs, tissues, or cell cultures (OTCC) into research organisms (Complete Tables II-III (animals) or Tables IV-V (plants), and [Attachment C](#))
- We will be using transgenic animals
 - We will be creating transgenic animals
 - We will be purchasing or obtaining transgenic animals from another group
 - We will be breeding transgenic animals
 - We will be transferring transgenic animals. Describe below and list prospective recipients:

Other labs may request our transgenic *C. elegans* strains for labeling synapses.

- We will be using transgenic plants
 - We will be creating transgenic plants
 - We will be purchasing or obtaining transgenic plants from another group
 - We will be transferring transgenic plants. Describe below and list prospective recipients:

Click or tap here to enter text.

- Work requires a USDA-APHIS Permit.
- We will be performing safety tests or screening for pathogenic or infectious agents before or after inoculation into animals.

A Standard Operating Procedure (SOP) must be attached that describes the work with research organisms. Describe the species, transporting, and decontamination methods, if applicable. For transgenic/genetically modified plants, describe any special growth requirements and whether recombinants are expected to be more pathogenic, as well as the transformation method used, the gene information, and containment requirements. A detailed step-by-step protocol is not necessary, but provide sufficient information on your procedures so that the committee can identify the steps that involve the greatest likelihood of worker or environmental exposure. Include the steps that will be conducted in a biological safety cabinet. Consult the SOP template for other required components.

I.A. Research Organism (Vertebrates, Invertebrates, Plants)							
Research Organism (Genus, species, strain)	Recipient of: (include source name of the agent)				Administration Route (manner in which you are introducing agent, e.g. microinjection)	Max. Conc. Administered	Max. Vol.
	Recombinant DNA Construct (germ line /somatic?)	Vector	Microbe (only if microbe will be injected into research organism)	OTCC (unfixed human or non-human primate organs, tissues, or cell cultures)			
C. elegans	germline	pUC19-derived C. elegans vectors with antibiotic resistance (usually Ampicillin, with a few Kanamycin).	N/A	NA	Microinjection	150ng/ul	1ul per animal

I.B. Research Organism - Infectious Agent Details				
<input checked="" type="checkbox"/> N/A				
Species of Animal/Plant	# of Animals /Plants	Infectious Agent	Duration of Infectivity	Route of Shedding/ Excretion & Interval

II.A. Animal Containment During Agent Introduction							
<input type="checkbox"/> N/A							
Species of Animal/Strain	Biological Agent or recombinant DNA (include source details)	Containment/Locations					
		Prior to procedures		During Procedures		Post Procedures	
		BSL/ABSL	Bldg/Room	BSL/ABSL	Bldg/Room	BSL/ABSL	Bldg/Room
C. elegans	Recombinant DNA. Plasmid vectors with antibiotic resistance (amp or kan), synaptic, neuronal and control genes, and fluorophores. Also, constructs for imaging calcium and cGMP.	BSL1	Duncan Hall 544, and -80 in Duncan Hall 554	BSL1	Duncan Hall 544	BSL1	Duncan Hall 544, and -80 in Duncan Hall 554

II.B. Animal Housing Post Administration

N/A

After delivery of agents, animals will be housed in (check all that apply):

- Separate cages from other animals
- Well-labeled cages indicating possible hazards to animal staff
- Micro-isolator cages
- Conventional/ABSL-1 facility
- ABSL-2 facility
- ABSL-2 facility for 72 hours, then transferred to ABSL-1 facility
- Live animals will not be returned to animal facilities after delivery
- Other (specify): In petri dishes stored in refrigerated incubators in DH544, or in microfuge tubes in -80 freezers.

III. General Animal Housing or Handling

N/A

Bldg/Room	Species	Procedures (i.e., breeding, handling, injections)	Shared room? (Y/N)	Proposed BSL
DH 544 and -80 in DH554	C. elegans	Injections, breeding and handling will occur in DH 544.	N	BSL1

IV. Plant Research Organism

N/A

Species of Plant	Transgenic (Y/N)	USDA-APHIS Permit/Notification (Type, Number)		Noxious Weed (US or CA) (Y/N)	Method of Reproduction (self, wind pollinator, insect pollinator, human intervention required)
		(Y/N)	(Type, Number)		

V. Plant Growth and Housing

N/A

Bldg/Room	Plant	Stage of growth (i.e., seedling)	Shared room? (Y/N)	Proposed BSL