Lab Safety Review





MISSISSIPPI STATE UNIVERSITY™ ENVIRONMENTAL HEALTH AND SAFETY

Date							
Inspected By:							
Lab Representativ	ve:						
			Lab	Info			
Department/Build	ding:						
Lab #:							
PI:							
PI Phone:							
Secondary Contac	ct:						
Secondary Phone	:						
		Specials Lab	o Consideratio	ons (<i>check all</i>	that apply):		
BSL-1		BSL-2		BSL-2+		BSL-3*	
ABSL-1		ABSL-2		PBSL-1		PBSL-2	
ACL-1		ACL-2		Radiation		Lasers	
Other							

* Refer to the separate high biocontainment review checklist.

Α.	Housekeeping	Point Value	Yes	No	N/A
A01	Floors are dry and free of slip, trip, or fall hazards.	2			
A02	Work surfaces and storage areas are uncluttered and orderly.	2			
A03	Shelves/cabinets are in good condition, and not overcrowded.	2			
A04	Trashcans are not overfilled.	1			
A05	Lab space free of food/drinks/dishes (including lab fridges).	2			
A06	Step ladder available for accessing injurious items stored above reach.	1			
В.	General Laboratory Facilities/Practices	Point Value	Yes	No	N/A
B01	Lab has a handwashing sink along with handwashing soap and paper towels.	2			
B02	Lab door is locked when the lab is unoccupied.	1			
B03	Lab door is kept closed at all times and is not propped open.	1			
B04	Surfaces and fixtures (including chairs) within the laboratory space where hazardous compounds are handled are impermeable to liquids.	1			
B05	An effective pest control program is in place.	1			
B06	Illumination is adequate in the laboratory space.	2			
B07	Non-research animals or plants prohibited in the laboratory work area.	1			



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BU8	Personnel wash hands after removing gloves and before exiting	2				
000	the laboratory.					
B09	Mouth pipetting prohibited.	3				
C.	Signage/Hazard Communication	Point Value		Yes	No	N/A
C01	Lab door sign is posted and up to date with appropriate hazards.	2				
C02	Lab Emergency Plan posted near door and is up-to-date.	2				
C03	Fridges/freezers are labeled "No Food Storage".	1				
C04	Equipment are labeled "For Lab Use Only".	1				
C05	Fridges/freezers/microwaves have signs identifying use (chemical, flammables, food for human consumption).	1				
C06	Chemical Safety Data Sheets (SDS) are always available and accessible.	2				
C07	Chemical storage cabinets are clearly labeled.	2				
D.	Training and Documentation	Point Value		Yes	No	N/A
D01	Lab staff have current annual Lab Safety training.	2				
D02	Lab staff have current annual Hazardous Waste Management training.	2				
D03	If respirators used, all staff have been trained, fit tested and completed medical evaluation.	3				
D04	An accurate chemical inventory is maintained for all hazardous materials.	2				
D05	Standard Operating Procedures (SOPs) are available for experiments/equipment/hazardous activities.	2				
E.	Fire and Electrical Safety	Point Value		Yes	No	N/A
E01	Fire extinguisher is present, accessible, and clearly visible.	2				
E02	Fire extinguisher has not been discharged or damaged.	2				
E03	Sprinkler heads are unobstructed (at least 18" clearance).	2				
E04	No flammable/combustible items stored within 24" of ceiling.	1				
E05	Electrical panel is unobstructed (at least 36" D, 30" W, 78" H clearance).	1				
E06	Electrical cords/outlets are in good condition, and not near wet areas.	2				
E07	Extension cords/power strips (UL listed surge protectors are acceptable) are not used for permanent power.	1				
E08	Extension cords/power strips/surge protectors are not connected in series (i.e. "daisy chained") and are plugged directly into wall.	1				
E09	Lab is free of any space heaters.	1				
E10	No missing ceiling tiles.	1				



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E11	Paths of egress are clear and unobstructed. Access to exit is	2			
	clear (at least 24 clearance).	Deint			
F.	Laboratory Apparel and Personal Protective Equipment:	Point Value	Yes	No	N/A
F01	Long pants and full-coverage shoes required and worn in lab.	1			
F02	Long hair is tied back.	1			
F03	No loose-fitting clothing or jewelry/lanyards are worn in lab.	1			
F04	Lab coats are available and worn while working in the lab.	3			
F05	Lab coats are in good condition and cleaned, as needed.	2			
F06	Eye protection (goggles, safety glasses, face shields) are available and worn while working.	3			
F07	Appropriate gloves are available and worn while working.	3			
F08	No dirty/used gloves left on benchtops, gloves not reused.	2			
F09	As applicable, respirators are used and stored appropriately.	3			
F10	PPE is not worn outside of the lab.	2			
G.	Laboratory Emergency Equipment	Point Value	 Yes	No	N/A
	A chamical chill kit that minimally contains vormiculito	value			
G01	disposable gloves, soda ash for acid neutralization, dust pan and brush is readily accessible in the lab.	2			
G02	Safety shower and eyewash are in the lab or within 10 seconds of the work area (approx. 55 feet).	2			
G03	Safety shower and eyewash are unobstructed and clearly posted.	2			
G04	Safety shower and eyewash are in good condition (no leaks, no cracks, etc.)	1			
G05	Safety shower and eyewash have been certified within the last year by EH&S.	0			
G06	Eyewash stations in labs have been checked by lab staff and tagged each week.	1			
G07	If applicable, eyewash bottles are not expired.	1			
G08	Sufficient first aid materials are readily available, and personnel know where to find them.	1			
G09	"Antidotes" or special first aid materials are available and accessible (calcium gluconate for HF use).	3			
G10	First Aid Kit components are not expired.	1			
н.	Compressed Gas and Cryogenics	Point Value	Yes	No	N/A
H01	Gas tanks are standing upright and secured/mounted at all times.	3			
H02	No more than 3 tanks are tethered together (must be in a row) or appropriately racked.	2			
H03	Cylinders are segregated by compatibility and stored away from other chemicals.	2			
H04	Caps are in place on cylinders not in use.	2			



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H05	Hazardous gas cylinders are stored in ventilated cabinets.	3				
ЦОС	Cryogenic cylinders are in good condition (no ribbing, excessive	2				
поо	ice, cracked gaskets, rust, etc.).					
H07	Pressure release valve on cryogenic cylinders is intact and in	3				
1107	good condition.					
H08	Hydrostatic test within last 10 years.	1				
	Chamical Cofety	Point		Vac	No	NI / A
1.	chemical safety	Value		res	INO	N/A
101	Chemicals are not cluttering workbenches and have designated	2				
101	storage space.					
102	Hazardous liquid chemicals are not stored above eye level.	2				
103	Chemicals are not stored directly on floors.	2				
10.4	All chemical bottles (original or secondary containers) are	2				
104	labeled properly (name, date, initials, hazards).					
105	Reused bottles are triple rinsed, and labels defaced before	2				
105	disposal or reuse.					
106	All chemical bottles are securely closed when not in use.	2				
107	Peroxide-forming chemicals are appropriately dated when	3				
107	received and opened.					
108	The lab is free of expired chemicals.	2				
	Chemical bottles are of good condition and not compromised	2				
109	(e.g. damaged labels, rust, cracked, chipped, crystallization,					
	leaks, crust on lid, etc.).					
110	Chemical storage cabinets are clearly labeled. (flammable,	1				
110	corrosive, etc.)					
111	Chemicals are segregated based on hazard class (flammable,	3				
111	corrosive, oxidizer, reactive, toxic, etc.).					
112	Acids and bases are segregated and in secondary containment.	2				
113	Inorganic acids and organic acids are separated.	2				
114	Incompatible inorganic acids are properly segregated.	2				
115	Corrosives are stored in corrosives cabinet, minimal outside of	2				
112	cabinet, never under sinks.					
116	Water-reactive chemicals are segregated away from wet areas,	2				
110	in secondary containment, and labeled.					
	Toxic chemicals (carcinogens, mutagens, reproductive toxins,	2				
117	acute toxins, etc.) are segregated and stored in designated					
	areas with appropriate signage.					
118	Pyrophoric chemicals are segregated, in secondary	3				
	containment, and labeled.					
119	Picric acid is sufficiently wet, stored in cool, well-ventilated	3				
	area, and segregated from oxidizers and flammables.	2				
120	Perchioric acid is stored in cool, dry, well-ventilated area, and	3				
120	segregated from compustible materials and organic materials					
	Chemicals, wood Sherves, paper J. Elammable chemicals stored in Jab is kent below NEDA	2				
121	rianniable chemicals stored in idd is kept below INFPA	2				
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122	No ignition sources present near where flammables are stored or in use.	2			
123	Flammables requiring refrigeration are only stored in labeled, explosion-proof/flammable-resistant fridge or freezer.	2			
J.	Chemical Hazardous Waste	Point Value	Yes	No	N/A
J01	Satellite Accumulation Area (SAA) is in lab and is posted with EH&S signage.	2			
J02	Only hazardous waste is stored in Satellite Accumulation Area.	2			
J03	All hazardous waste containers are labeled "Hazardous Waste".	2			
J04	All waste containers are marked with the contents of the container.	2			
J05	Generator indicates waste hazard classification	2			
J06	All waste containers are closed when waste is not actively being added.	2			
J07	All waste containers are in good condition (no leaks, rust, bulging, or damage).	3			
J08	Secondary containers are in good condition.	2			
J09	Waste containers are no more than ¾ full.	2			
J10	Hazardous waste is not dated.	3			
J11	Maximum SAA storage capacity is not exceeded (55gal hazardous waste, or 1 quart of acute hazardous waste).	3			
		Doint			
к.	Sharps	Value	Yes	No	N/A
К. КО1	Sharps Broken glass box must be lined.	Value 1	Yes	No	N/A
К. КО1 КО2	Sharps Broken glass box must be lined. Broken glass box(es) present near work areas.	Value 1 1	Yes	No	N/A
К. КО1 КО2 КО3	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.	Value 1 2	Yes	No	N/A
K. K01 K02 K03 K04	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.	Value 1 2 2	Yes	No	N/A
K. K01 K02 K03 K04 K05	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areas	Value 1 2 2 2 2 2 2 2	Yes	No	N/A
K. K01 K02 K03 K04 K05 K06	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floor	Value 1 2 2 2 1	Yes □ □ □ □ □	No	N/A
K. K01 K02 K03 K04 K05 K06 K07	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.	Value 1 2 2 2 1 3	Yes	No	N/A
K.01 K02 K03 K04 K05 K06 K07	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.	Value 1 2 2 1 3 3	Yes	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L.	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume Hoods	Value 1 1 2 2 1 3 3 Point	Yes	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L.	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume Hoods	Value 1 1 2 2 1 3 3 Point Value	Yes	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L01	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.	Value 1 2 2 1 3 3 Point Value 0	Yes	No	N/A
K. K01 K03 K04 K05 K06 K07 K08 L01	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.No chemicals are stored in a fume hood while not currently in use.	Value 1 2 2 1 3 3 Point Value 0 1	Yes	No	N/A
K01 K02 K03 K04 K05 K06 K07 K08 L01 L02 L03	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.No chemicals are stored in a fume hood while not currently in use.Fume hood is operating at good efficiency and controller is functioning.	Value 1 2 2 1 3 3 Point Value 0 1 3	Yes	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L01 L02 L03 L04	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.No chemicals are stored in a fume hood while not currently in use.Fume hood is operating at good efficiency and controller is functioning.Back baffles are not obstructed.	Value 1 2 2 1 3 3 Point Value 0 1 3 2 1 3 3 2 3 3 2 2 3 3 2	Yes Image: Second	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L01 L02 L03 L04 L05	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.No chemicals are stored in a fume hood while not currently in use.Fume hood is operating at good efficiency and controller is functioning.Back baffles are not obstructed.No equipment blocking airflow in hood.	Value 1 2 2 2 1 3 3 Point Value 0 1 3 2 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Yes Image: Second	No	N/A
K. K01 K02 K03 K04 K05 K06 K07 K08 L01 L02 L03 L04 L05 L06	SharpsBroken glass box must be lined.Broken glass box(es) present near work areas.Broken glass box isn't overfilled, compromised, or leaking.No broken glassware is outside of broken glass box.Sharps box(es) are present near work areasSharp boxes are not stored directly on floorSharps box is not overfilled, compromised, or leaking.No uncapped/uncontained sharps are evident in the lab.Fume HoodsChemical fume hood has been certified by EH&S within the last year.No chemicals are stored in a fume hood while not currently in use.Fume hood is operating at good efficiency and controller is functioning.Back baffles are not obstructed.No equipment blocking airflow in hood.Fume hood is in good condition, with no clutter or trash within.	Value 1 2 2 2 1 3 3 Point Value 0 1 3 2 1 3 2 1 3 2 1 3 2 2 1 3 2 1	Yes □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	No	N/A



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L08	Fume hood sash lowered when not in use	2			
L09	"Out of Service" hoods are tagged and not in use.	3			
L10	If Satellite Accumulation Area (SAA) is within a hood, it is tagged as "Out of Service" and the "SAA" sign is posted.	2			
L11	No perchloric acid, either ≥70% or heated, is being used in a standard hood.	3			
L12	Items are not hung on control knobs.	1			
L13	Filtered fume hoods are sufficient for the chemicals they work	3			
М.	Gloveboxes	Point Value	Yes	No	N/A
M01	Glovebox has been inspected or certified in the last year.	3			
M02	Out of service clearly posted if not certified	3			
M03	Gloves are of good integrity.	3			
M04	The windows are intact and not compromised.	3			
	All pressure gauges and indicators are functioning and are	3]	
10105	within acceptable ranges.				
N.	within acceptable ranges. General Equipment/Physical Hazards	Point Value	Yes	No	⊔ N/A
N .	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment.	Point Value 2	 Yes	No	□ N/A
N03 N01 N02	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured.	Point Value 2 3	Yes	□ No	N/A
N03 N01 N02 N03	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use.	Point Value 2 3 2	 Yes	□ No □ □ □	□ N/A
N03 N01 N02 N03 N04	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use. Hazardous equipment areas are designated, and access is restricted.	Point Value 2 3 2 2 2	⊥ Yes □ □ □ □	No Image: Image of the second seco	□ N/A
N03 N01 N02 N03 N04 N05	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use. Hazardous equipment areas are designated, and access is restricted. No trip hazards were observed, and cords/cables are secured or taped down.	Point Value 2 3 2 2 2 2	⊥ Yes	No	□ N/A □ □ □ □ □ □ □
N03 N01 N02 N03 N04 N05 N06	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use. Hazardous equipment areas are designated, and access is restricted. No trip hazards were observed, and cords/cables are secured or taped down. Vacuum pump is not leaking oil.	Point Value 2 3 2 2 2 2 2 2 2	⊥ Yes □ □ □ □ □ □ □	No Image: Image of the second seco	□ N/A □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
N03 N01 N02 N03 N04 N05 N06 N07	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use. Hazardous equipment areas are designated, and access is restricted. No trip hazards were observed, and cords/cables are secured or taped down. Vacuum pump is not leaking oil. Vacuum pump is venting exhaust properly.	Point 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	⊥ Yes □ □ □ □ □ □ □ □ □ □ □ □ □		
NO3 N01 N02 N03 N04 N05 N06 N07 N08	within acceptable ranges. General Equipment/Physical Hazards Movable parts guarded on equipment. Guards/shields are in place and secured. Damaged equipment is labeled and not in use. Hazardous equipment areas are designated, and access is restricted. No trip hazards were observed, and cords/cables are secured or taped down. Vacuum pump is not leaking oil. Vacuum pump is venting exhaust properly. Vacuum pump is stored in non-combustible secondary containment.	Point 2 3 2 2 2 2 2 2 2 2 2 1	⊥ Yes □ □ □ □ □ □ □ □ □ □ □ □ □	No	□

0.	BSL Specific Items	Point Value	Yes	No	N/A
001	(BSL-1 and above) The lab has a current and accurate lab- specific Biosafety Plan.	2			
002	(BSL-1 and above) Scopes of work involving biological materials are appropriately registered with the Institutional Biosafety Committee (IBC).	3			
O03	(BSL-1 and above) Lab staff have completed the required Biosafety: Principles & Practices training.	2			
004	(BSL-1 and above) Lab staff have completed the required Effective Use of Biological Safety Cabinets (BSC) training.	2			

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Ρ.	ACL Specific Items	Point Value	Yes	No	N/A
026	function (not immediately underneath HVAC supply, impacted by doorways, in a high traffic area, etc.).				
	BSCs are staged in a manner that does not compromise	2			
025	UV light is not utilized as the primary means of decontamination	2			
024	Fiames are prohibited in the BSC.	3			
023	The BSC is not overcrowded.	2			
022	No items/equipment are obstructing the front or rear grilles.	2			
021	Biosalety cabinet has been certified in the last year.	3			
021	Diosalety Cabilitets:	2			
	(received and dated within the last year).				
	scoop, paper towers, and a small bottle of undiluted bleach				
020	autociave bags, disposable gloves, eye protection broom &				
000	maintain a biological spill kit which contains the following: large				
	(BSL-1 and above) Labs that have biohazardous materials must	2			
019	(BSL-2) Extra BSL-2+ precautions are adhered to.	2			
018	(BSL-1 and above) A general autoclave use log is maintained.	1			
	are tested using a biological indicator on a monthly basis.				
017	Program, autoclaves used to inactivate biohazardous materials				
	(BSL-1 and above) In accordance with the Autoclave Verification	2			
016	inactivated and disposed of.	ر			
015	collected and stored.	3			
014	inactivated and disposed of. (BSL-1 and above) Solid biohazardous waste is appropriately	3			
01/	(BSL-1 and above) Liquid biohazardous waste is appropriately	3			
013	(BSL-1 and above) Liquid biohazardous waste is appropriately collected and stored	3			
012	(BSL-2 and above) The lab maintains inward (negative) directional airflow relative to the adjoining space.	1			
011	(BSL-1 and above) Windows that open to the exterior have intact screens.	1			
010	Bleach, or an alternative suitable EPA-registered disinfectant (not ethanol), is being used to disinfect surfaces.	3			
009	(BSL-1 and above) Biosafety signs posted and up to date.	2			
008	as equipment used to manipulate or store infectious agents.	۷			
007	Concern training.	2			
000	training. If applicable, staff have completed the Dual Use Research of	2			
006	training. If applicable, staff have completed the Bloodborne Pathogens	2			
005	Research Involving Recombinant or Synthetic Nucleic Acids	2			
	If applicable, staff have completed the NIH Guidelines for	2			



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DO1	(ACL-1 and above) The insectary separated from the areas that	1				
PUI	are open to unrestricted personnel traffic within the building.					
P02	(ACL-2) The ceiling is contiguous or sealed/affixed (either locked	2				
F UZ	or adhered) drop tile ceiling.					
P03	(ACL-2) If applicable, supply/exhaust vents are adequately	3				
100	screened to prevent the environmental release of flying insects.					
P04	(ACL-2) Sink drains are adequately screened to prevent the	2				
	environmental release of experimental arthropods.					
P05	(ACL-2) Opportunities for incidental harborage are minimized in	2				
	the laboratory setting.		 	┞──┤	· · · · · · · · · · · · · · · · · · ·	
500	(ACL-2) Windows are not recommended, but it present, they	2			_	
РОб	must be resistant to breakage (e.g. double paned or wire					
	reinforced) and adequately sealed.		┨────	┨───┤		
	(ACL-2) The entrance to the insectary via a double-door	۷				
P07	The vestibule doors are either procedurally or physically					
	interlocked					
	(ACL-2) Interior walls floors and surfaces are light-colored so	1	┨───┤			
P08	that a loose arthropod can be readily located.	<u> </u>				
	(ACL-2) Internal facility appurtenances (e.g., light fixtures, pipes	1	} ──┤			
P09	and ducting) are minimized, and penetrations of walls, floors,	-				
	and ceilings are sealed/caulked.					
	(ACL-2) Exotic or infected arthropods are sedated prior to	2				
P10	manipulation in either a static "dead-air" glovebox or certified					
	biosafety cabinet, as appropriate.					
D11	(ACL-2) Mouth aspiration of arthropods is prohibited -	2				
Г 1 1	mechanical aspirators must be utilized.					
P12	(ACL-2) Traps present to capture potential escapees.	1				
P13	(ACL-2) Arthropods properly contained, and primary	3	[
'	containment devices are appropriately labeled.					
P14	(ACL-2) Arthropods properly devitalized/inactivated.	3				
0.	ARSI Specific Items	Point		Ves	No	N/A
ς.	Abse specific items	Value				••••
i I	(ABSL-1 and above) Scopes of work involving animals are	3				
Q01	appropriately registered with the Institutional Animal Care and					
	Use Committee (IACUC).		 '	┨──┤		ļ
	(ABSL-1 and above) Animals shall be contined to securely	1			_	
Q02	fenced areas or be in enclosed structures (animal rooms) to					
┟───┤	minimize the possibility of thett or unintentional release.		┨───┘	┨──┤		
002	(ABSL-1 and above) The containment building shall be	2				
QU3	controlled and have a locking access. The containment area					
╏───┤	Shall be locked.	1	┨───┤	┨──┤		
Q04	(ABSL-1 dilu duove) the containment area shan be patroned of monitored at fragment intervals	1				
	(ABSI-2) When the animal research requires special provisions	2	┨───┤			<u> </u>
Q05	for entry (e.g., vaccination), a warning sign incorporating the	-				

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	universal biosafety symbol shall be posted on all access doors to the animal work area. The sign shall indicate: (i) the agent, (ii) the animal species, (iii) the name and telephone number of the Animal Facility Director or other responsible individual, and (iv) any special requirements for entering the laboratory.			
Q06	(ABSL-2) Animals of the same or different species, which are not involved in the work being performed, shall not be permitted in the animal area.	1		
Q07	(ABSL-2) Contaminated materials that are decontaminated at a3site away from the laboratory shall be placed in a closed3durable leak-proof container prior to removal from the6laboratory6			
Q08	(ABSL-2) The facility separated from areas that are open to unrestricted personnel traffic within the building and are external doors self-closing and lockable2			
Q09	(ABSL-2) Doors to animal rooms inward opening, self-closing, and kept closed when experimental animals are present	2		
Q10	(ABSL-2) Windows, if present, are sealed and resistant to breakage	1		
Q11	(ABSL-2) Facility walls, ceilings and floors impervious to water and resistant to heat, organic solvents, acids, alkalis, and other chemicals, slip resistant and constructed for easy cleaning and decontamination.	1		
Q12	(ABSL-2) Internal facility appurtenances, such as light fixtures, air ducts, and utility pipes, arranged to minimize horizontal surface areas to facilitate cleaning and minimize the accumulation of debris or fomites.	1		
Q13	(ABSL-2) If arthropods are used in the experiment or the agent under study can be transmitted by an arthropod, interior work areas shall be appropriately screened (52 mesh). All perimeter joints and openings shall be sealed and additional arthropod control mechanisms used to minimize arthropod entry and propagation, including appropriate screening of access doors or the equivalent	2		
Q14	(ABSL-2) Biological materials removed from the animal containment area in a viable or intact state shall be transferred to a non-breakable sealed primary container and then enclosed in a nonbreakable sealed secondary container. All containers, primary and secondary, shall be disinfected before removal from the animal facility.	3		
Q15	(ABSL-2) Active or passive safety needles must be utilized for the injection or aspiration of fluids containing organisms that contain infectious agents and/or recombinant/synthetic nucleic acid molecules.	3		
Q16	(ABSL-2) Needles and syringes shall be promptly placed in a puncture-resistant container and decontaminated, preferably by autoclaving, before discard or reuse.	3		

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R.	PBSL Specific Items		Yes	No	N/A
R01	(PBSL-1) The greenhouse floor may be composed of gravel or other porous material. At a minimum, impervious (e.g., concrete) walkways are recommended.	1			
R02	(PBSL-1) Windows and other openings in the walls and roof of the greenhouse facility may be open for ventilation as needed for proper operation and do not require any special barrier to contain or exclude pollen, microorganisms, or small flying animals (e.g., arthropods and birds); however, screens are recommended.	1			
R03	(PBSL-1 and above) A record shall be kept of experiments2currently in progress in the greenhouse facility				
R04	(PBSL-1 and above) Experimental organisms shall be rendered biologically inactive by appropriate methods before disposal outside of the greenhouse facility.	2			
R05	(PBSL-1 and above) A program shall be implemented to control undesired species (e.g., weed, rodent, or arthropod pests and pathogens), by methods appropriate to the organisms	1			
R06	(PBSL-1) Arthropods and other motile macroorganisms shall be housed in appropriate cages. If macroorganisms (e.g., flying arthropods or nematodes) are released within the greenhouse, precautions shall be taken to minimize escape from the greenhouse facility.	1			
R07	(PBSL-2) A sign shall be posted indicating that a restricted experiment is in progress. The sign shall indicate the following: (i) the name of the responsible individual, (ii) the plants in use, and (iii) any special requirements for using the area. If organisms are used that have a recognized potential for causing serious detrimental impacts on managed or natural ecosystems, their presence shall be indicated on a sign posted on the greenhouse access doors. If organisms are used that have a recognized potential for causing serious detrimental impacts on managed or natural ecosystems, their presence shall be indicated on a sign posted on the greenhouse access doors.				
R08	(PBSL-2) Experiments involving other organisms that require a containment level lower than BL2-P may be conducted in the greenhouse concurrently with experiments that require BL2-P containment provided that all work is conducted in accordance with BL2-P greenhouse practices.	2			
R09	(PBSL-2) A greenhouse floor composed of an impervious material. Concrete is recommended, but gravel or other porous material under benches is acceptable unless propagules of experimental organisms are readily disseminated through soil. Soil beds are acceptable unless propagules of experimental organisms are readily disseminated through soil.	1			

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NEVISED					
R10	PBSL-2) Windows that open require screens to exclude small 1 lying animals (e.g., arthropods and birds).				
R11	(PBSL-2) An autoclave shall be available for the treatment of 2 contaminated greenhouse materials.				
R12	(PBSL-2) If intake fans are used, measures shall be taken to minimize the ingress of arthropods. Louvers or fans shall be constructed such that they can only be opened when the fan is in operation.				
R13	(PBSL-2) Materials containing experimental microorganisms,3which are brought into or removed from the greenhouse facilityin a viable or intact state, shall be transferred in a closed non- breakable container.				
s.	Radiation/Laser Safety Point Value		Yes	No	N/A
	Radiation Safety:				
S01	Radiation safety signs posted and up to date. (X-ray or RAM,2Notice to Employees, Lab Emergencies, Spills)2				
S02	Rad materials areas are clearly labeled.	2			
S03	All areas and items (benchtops, equipment, glassware, pipettes, pens, markers, etc.) are labeled "Radioactive Materials"	2			
S04	Radioactive materials are secured and only accessible to3authorized users.3				
S05	Radioactive and/or mixed waste containers are properly3labeled.3				
S06	Appropriate shielding available for the type of radioisotope used, where applicable.				
S07	Appropriate survey meters available and calibrated for2radioactive material use.2				
S08	All personnel are wearing dosimeters, where applicable.				
S09	Items labeled "Radioactive" in posted areas only. 2				
S10	Lab personnel current on radioactive materials or x-ray safety2training.				
S11	Lab door closed and secured against unauthorized entry.	3			
S12	Food, drink, or cosmetic application observed in the lab.	2			
	Laser Safety:				
S13	Laser signs posted outside lab, and "Laser in Use" sign posted.	2			
S14	Appropriate PPE and eye protection or shielding is available and in use when working with lasers.				
S15	Appropriate engineering controls are in place.	2			
S16	All Class IIIB and Class IV lasers are registered with EH&S.	2			

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<u>Other Concern(s)</u>		<u>Description(s)</u>			
<u>What You Got Right!</u>		Comments			