



Personal Protective Equipment Assessment Form

Date of Assessment: _____

Conducted By: _____

Building/Room #: _____

Department: _____

Principal Investigator (PI): _____

Instructions: This form must be completed by the PI, Lab Supervisor, or their designee to conduct a laboratory hazard assessment specific to activities in their laboratories. The laboratory hazard assessment identifies hazards to employees and specifies personal protective equipment (PPE) to protect employees during work activities. The person conducting the assessment must verify that it is complete and that all applicable training has been conducted. Store the completed PPE Assessment Form in the Lab Safety Binder once completed. Replace the form each time a new hazard is introduced or removed from the lab, or annually otherwise.

Item #	Work Activity Using...	Are the stated activities performed in the lab?		Potential Hazard	Applicable Engineering Controls	Applicable Administrative Controls	Applicable PPE
		Yes	No				
1.0 CHEMICAL HAZARDS							
1.1	Small volumes (10mL – 4L) of corrosive liquids.			Eye or skin damage.	<ul style="list-style-type: none">Chemical fume hood	<ul style="list-style-type: none">Completion of annual lab safety trainingReview Chemical Hygiene Plan (CHP)	<ul style="list-style-type: none">Chemical splash gogglesLight chemical-resistant gloves (Rubber Latex)Lab coat



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		Yes	No				
1.2	Large volumes (>4L) of corrosive liquids, small to large volumes (< 10 mL- >4L) of acutely toxic corrosives, or work which creates a splash hazard.			Poisoning; increased potential for eye and skin damage.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training Review Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Chemical splash goggles, face shield Heavy chemical-resistant gloves (Butyl or Viton) Lab coat & chemical resistant apron
1.3	Small volumes (10mL – 4L) of organic solvents or flammable organic compounds.			Skin or eye damage, potential poisoning through skin contact.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training Review Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Chemical splash goggles Light chemical-resistant gloves (Rubber Latex). Lab coat
1.4	Large volumes (>4L) of organic solvents, small to large volumes of very dangerous solvents, or work which creates a splash hazard.			Large volumes (>4L) of organic solvents, small to large volumes of very dangerous solvents, or work which creates a splash hazard.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training Review Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Chemical splash goggles Heavy chemical-resistant gloves (Butyl or Viton). Flame-resistant lab coat (e.g. Nomex)
1.5	Toxic or hazardous chemicals (solid, liquid, or gas).			Skin or eye damage, potential poisoning through skin contact.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training Review Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Chemical splash goggles Light chemical-resistant gloves (Rubber Latex). Lab coat, Respiratory protection may be needed



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		Yes	No				
1.6	Acutely toxic or hazardous chemicals (solid, liquid, or gas).			Increased potential for eye or skin damage increased potential poisoning through skin contact.	<ul style="list-style-type: none">• Chemical fume hood• Inert atmospheric (glove box)	<ul style="list-style-type: none">• Completion of annual lab safety training• Review Chemical Hygiene Plan (CHP)• Designated work areas• Prior approvals where applicable	<ul style="list-style-type: none">• Chemical splash goggles• Heavy chemical resistant gloves (Butyl or Viton).• Lab coat• Respiratory protection may be needed
1.7	An apparatus with contents under pressure or vacuum.			Eye or skin damage.	<ul style="list-style-type: none">• Chemical fume hood	<ul style="list-style-type: none">• Completion of annual lab safety training	<ul style="list-style-type: none">• Safety glasses or goggles, face shield for high risk activities• Chemical-resistant gloves (Latex, Nitrile, or Butyl)• Lab coat, chemical-resistant apron for high risk activities



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		Yes	No				
1.8	Air or water reactive chemicals.			Severe skin and eye damage. Fire.	<ul style="list-style-type: none">• Inert atmosphere (glove box)• Storage in areas free of water and/or moisture	<ul style="list-style-type: none">• Inert atmosphere (glove box)• Storage in areas free of water and/or moisture	<ul style="list-style-type: none">• Work in inert atmosphere, when possible• Chemical splash goggles• Chemical-resistant gloves• Lab coat, flame-resistant lab coat for high risk activities (e.g. Nomex)• Chemical-resistant apron for high risk activities
1.9	Potentially explosive chemicals.			Splash, detonation, flying debris, skin and eye damage. Fire.	<ul style="list-style-type: none">• Chemical fume hood	<ul style="list-style-type: none">• Completion of annual lab safety training• Review Chemical Hygiene Plan (CHP)	<ul style="list-style-type: none">• Chemical splash goggles, face shield, and blast shield• Heavy gloves• Flame-resistant lab coat (e.g. Nomex)
1.10	Temperatures below 0°C.			Burns, splashes, frostbite.	<ul style="list-style-type: none">• N/A	<ul style="list-style-type: none">• Completion of annual lab safety training• Review Chemical Hygiene Plan (CHP)	<ul style="list-style-type: none">• Chemical splash goggles• Thermal insulated gloves when needed• Lab coat



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		Yes	No				
1.11	Temperatures above 90°C.			Burns, splashes, fires.	<ul style="list-style-type: none">N/A	<ul style="list-style-type: none">Completion of annual lab safety trainingReview Chemical Hygiene Plan (CHP)	<ul style="list-style-type: none">Chemical splash gogglesThermal insulated gloves when needed.Lab coatFire retardant PPE
1.12	Minor chemical spill cleanup.			Skin or eye damage, respiratory damage.	<ul style="list-style-type: none">N/A	<ul style="list-style-type: none">Completion of annual lab safety trainingUNO Emergency Procedures	<ul style="list-style-type: none">Chemical splash gogglesChemical resistant gloves (Nitrile).Lab coatChemical-resistant apron and boot/shoe covers for high risk activitiesRespirator as neededConsider keeping Silver Shield gloves in the lab spill kit



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		Yes	No				
2.0 BIOLOGICAL HAZARDS							
2.1	Human blood, body fluids, tissues, or bloodborne pathogens (BBP).			Exposure to infectious material.	<ul style="list-style-type: none"> Biosafety cabinet 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of annual BBP training Review of BBP-Exposure Control Plan Hepatitis B Vaccine 	<ul style="list-style-type: none"> Face shield or facemask with goggles (if splash risk) Latex or nitrile gloves Lab coat or gown
2.2	Preserved animal and/or human specimens.			Exposure to infectious material or preservatives.	<ul style="list-style-type: none"> Biosafety cabinet 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of annual BBP training Review of BBP-Exposure Control Plan Hepatitis B Vaccine 	<ul style="list-style-type: none"> Chemical splash goggles Protective gloves such as light latex or nitrile for unpreserved specimens (select protective glove for preserved specimens according to preservative used) Lab coat or gown



Item #	Work Activity Using...	Are the stated activities performed in the lab?		Potential Hazard	Applicable Engineering Controls	Applicable Administrative Controls	Applicable PPE
		Yes	No				
2.3	Radioactive human blood, body fluids, or bloodborne pathogens (BBP).			Cell damage, potential spread of radioactive contaminants, or potential BBP exposure.	<ul style="list-style-type: none"> Biosafety cabinet 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of annual BBP training Review of BBP-Exposure Control Plan Hepatitis B Vaccine 	<ul style="list-style-type: none"> Safety glasses (goggles for splash or aerosol hazard) Light latex or nitrile gloves Lab coat or gown
2.4	Manipulation of cell lines, viruses, bacteria, recombinant / synthetic nucleic acid molecules (rDNA) or other organisms in a Biosafety Level (BSL) 1 facility.			Eye or skin irritation.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of annual BBP training (if human materials involved) 	<ul style="list-style-type: none"> Safety glasses (goggles for protection from splash) or other eye hazard Light latex or nitrile gloves for broken skin or skin rash Lab coat or gown
2.5	Manipulation of cell lines, viruses, bacteria, recombinant / synthetic nucleic acid molecules (rDNA) or other organisms in a BSL-2 facility.			Exposure to infectious material, particularly through broken skin or mucous membranes.	<ul style="list-style-type: none"> Biosafety cabinet Autoclave 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of annual BBP training (if human materials involved) 	<ul style="list-style-type: none"> Chemical splash goggles for protection from splash or other eye hazard Light latex or nitrile gloves Lab coat or gown



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		Yes	No				
2.6	Work with live animals housed in an Animal Biosafety Level (ABSL) 1 facility.			Animal bites, allergies.	<ul style="list-style-type: none"> Biosafety cabinet 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of applicable animal safety training Completion of CITI training Review IACUC specific procedures 	<ul style="list-style-type: none"> Safety glasses (goggles for protection from splash) Latex, nitrile or vinyl gloves for broken skin or skin rash Lab coat or gown Consider need for wire mesh glove
2.7	Work with live animals housed in an ABSL-2 facility.			Animal bites, exposure to infectious material, allergies.	<ul style="list-style-type: none"> Biosafety cabinet (N/A to larger animals such as non-human primates) 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of applicable animal safety training Completion of CITI training Review IACUC specific procedures 	<ul style="list-style-type: none"> Chemical splash goggles for protection from splash or other eye hazard Face shield Latex, nitrile and/or bite resistant gloves Solid front gown Head cover Shoe covers Surgical mask Consider need for wire mesh glove
3.0 RADIOLOGICAL HAZARDS							
3.1	Solid radioactive materials or waste.			Cell damage, potential spread of radioactive materials.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Safety glasses Latex or nitrile gloves Lab coat



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		Yes	No				
3.2	Radioactive materials in hazardous chemicals (corrosives, flammables, liquids, powders, etc.).			Cell damage or spread of contamination plus hazards for the specific chemical.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Chemical splash goggles Light chemical-resistant gloves Lab coat Note: Select glove for the applicable chemical hazards
3.3	Ultraviolet radiation			Conjunctivitis, corneal damage, skin redness.	<ul style="list-style-type: none"> UV shield 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> UV face shield and goggles Lab coat
3.4	Infrared emitting equipment (e.g. glass blowing)			Cataracts, burns to cornea.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Appropriate shaded goggles Lab coat
4.0 LASER HAZARDS							
Open Beam							
4.1	Performing alignment, troubleshooting or maintenance that requires working with an open beam and/or defeating the interlock(s) on any Class 3 or Class 4 laser system.			Eye damage.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training 	<ul style="list-style-type: none"> Appropriately shaded goggles/glasses with appropriate optical density at the appropriate electromagnetic wavelength; based on individual beam parameters



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		Yes	No				
4.2	Viewing a Class 3R laser beam with magnifying optics (including eyeglasses).			Eye damage.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training 	<ul style="list-style-type: none"> Appropriately shaded goggles/glasses with optical density based on individual beam parameters
4.3	A Class 3B laser open beam system with the potential for producing direct or specular reflections.			Eye damage, skin damage.	<ul style="list-style-type: none"> Beam enclosures Beam attenuators Beam blocks, or Laser rated curtains 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training 	<ul style="list-style-type: none"> Appropriately shaded goggles/glasses with optical density based on individual beam parameters Appropriate skin protection
4.4	A Class 3B laser open beam system with the potential for producing direct or specular reflections.			Eye damage, skin damage.	<ul style="list-style-type: none"> Beam enclosures Beam attenuators Beam blocks, or Laser rated curtains 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training 	<ul style="list-style-type: none"> Appropriately shaded goggles/glasses with optical density based on individual beam parameters Appropriate skin protection



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		Yes	No				
Non-Beam							
4.5	Handling dye laser materials, such as powdered dyes, chemicals, and solvents.			Cancer, explosion, fire.	<ul style="list-style-type: none"> Chemical fume hood 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Gloves Chemical splash goggles Flame-resistant lab coat or coveralls
4.6	Maintaining and repairing power sources for large Class 3B and Class 4 laser systems.			Electrocution, explosion, fire.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Completion of laser safety training Completion of electrical safety training Maintenance and repairs should be completed by vendor 	<ul style="list-style-type: none"> Electrical isolation mat Flame-resistant lab coat or coveralls
5.0 PHYSICAL HAZARDS							
5.1	Cryogenic liquids.			Major skin, tissue, or eye damage.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Goggles for large volumes Impermeable insulated gloves (Cryogenic - Waterproof). Lab coat



Item #	Work Activity Using...	Are the stated activities performed in the lab?		Potential Hazard	Applicable Engineering Controls	Applicable Administrative Controls	Applicable PPE
		Yes	No				
5.2	Removing freezer vials from liquid nitrogen.			Vials may explode upon rapid warming. Cuts to face/neck and frostbite to hands.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Completion of annual lab safety training
5.3	Very cold equipment or dry ice.			Frostbite, hypothermia.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Safety glasses Insulated gloves (Cryogenic) (possibly warm clothing) Lab coat
5.4	Hot liquids, equipment, open flames (i.e., autoclave, Bunsen burner, water bath, oil bath).			Burns resulting in skin or eye damage.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of Chemical Hygiene Plan (CHP) 	<ul style="list-style-type: none"> Safety glasses or goggles for large volumes Insulated gloves (impermeable insulated gloves for liquids, steam) Lab coat
5.5	Glassware washing.			Lacerations; burns.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Chemical splash goggles Heavy rubber gloves Lab coat Leather closed toed shoes
5.6	Working with loud equipment, noises, sounds, alarms, etc.			Potential ear damage and hearing loss.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Earplugs or ear muffs as determined by noise monitoring



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		Yes	No				
5.7	A centrifuge.			Imbalanced rotor can lead to broken vials, cuts, exposure, and spills.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Chemical splash goggles Latex, vinyl, or nitrile gloves Lab coat
5.8	A sonicator.			Ear damage, exposure.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Noise monitoring if applicable Audiometric testing if applicable 	<ul style="list-style-type: none"> Safety glasses or goggles Latex, vinyl, or nitrile gloves Lab coat Earplugs or ear muffs as determined by noise monitoring
5.9	Sharps (including broken glass).			Cuts, exposure.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training Review of BBP-Exposure Control Plan 	<ul style="list-style-type: none"> Safety glasses or goggles Latex, vinyl, or nitrile gloves Lab coat Leather closed toed shoes
5.10	Moving compressed gas cylinders.			Crushed foot/ toes, punctured valve causing torpedo.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> <i>Should be done only by vendor</i> 	<ul style="list-style-type: none"> Steel toe guards or steel toed boots
6.0 NANOMATERIAL HAZARD							
6.1	Unbound engineered solid nanomaterials.			Inhalation, exposure, dermal exposure.	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Completion of annual lab safety training 	<ul style="list-style-type: none"> Goggles Gloves (change frequently) Arm sleeves (gantlets) Lab coat Respiratory protection may be needed



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		Yes	No				
6.2	Unbound engineered liquid nanomaterials, where aspiration possible.			Inhalation, exposure, dermal exposure.	<ul style="list-style-type: none">• N/A	<ul style="list-style-type: none">• Completion of annual lab safety training	<ul style="list-style-type: none">• Goggles• Gloves• Lab coat• Respiratory protection may be needed

Note: By signing below, you are confirming that you have read and understand the requirements stated in this document.

Date(s)

Name(s)

Signature(s):
