

Effective: July 1, 2016	JOB SAFETY ANALYSIS	DEPT: CNS	LOCATION: Center for Neuroscience	JOB TYPE: Lab Worker
JOB FUNCTION	POTENTIAL HEALTH OR INJURY HAZARDS	SAFE PRACTICE, OR EQUIPMENT		PERSONAL PROTECTIVE EQUIPMENT (PPE)

Entering the lab	<ul style="list-style-type: none"> Exposure to biological agents, chemical agents, and radiological items. 	<ul style="list-style-type: none"> Training and enforcement of entrance into labs and useage of necessary Personal Protective Equipment (PPE) are under the direction of the laboratory's Principal Investigator (PI). 	<ul style="list-style-type: none"> The minimum protective clothing includes full length pants, or equivalent, and closed toe/heel shoes must be worn at all times by all individuals who are occupying or entering a laboratory. The area of skin between the shoe and ankle should not be exposed. Lab coats or protective garments are required to be worn while working with, or adjacent to, all bench top procedures using hazardous materials. Coats should be buttoned to their full length. Laboratory coat sleeves must be of sufficient length to prevent skin exposure while wearing gloves. Lab coats with cuffed sleeves are recommended.
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Handling biological materials	<ul style="list-style-type: none"> Exposure to biological agents via inhalation, contact, ingestion or injection. 	<ul style="list-style-type: none"> Avoid unnecessary exposures. Practice proper personal hygiene (handwashing before and after working with biological hazard). Enroll in the Employee Health Services – Health Monitoring Program. Voluntary participation in Hepatitis B vaccination program. Attend EH&S Bloodborne Pathogen Program training, proper adherence to biological waste handling procedures, and familiarity with the EH&S BioSafety Manual. All personnel to conduct biological work and added to the BUA shall attend a class on Laboratory Biological Safety/Bloodborne Pathogen Program during the first 6 months of employment or of conducting this type of work. Know the location of the emergency eyewash station and shower nearest your lab. Refer to the Center for Neuroscience website: http://neuroscience.ucdavis.edu/healthandsafety/LaboratoryWasteManagement.html - BiohazardousWaste, and EH&S SafetyNet #'s 16, 19 and 85. Training and enforcement are under the direction of the laboratory's Principal Investigator (PI). 	<ul style="list-style-type: none"> Wear proper protective clothing, including gloves, protective eyewear and in some instances respiratory protection as necessary. Wear additional protective equipment as documented in the Biological Use Authorization.
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Handling chemicals	<ul style="list-style-type: none"> Exposure to chemicals which may be corrosive, flammable, explosive, carcinogenic, or toxic such as HCl, NaOH, acetone, ethanol, picric acid, paraformaldehyde, etc. 	<ul style="list-style-type: none"> Avoid unnecessary exposures. Reduce exposures that cannot be avoided by minimizing exposure duration and concentration. Be familiar with what the Safety Data Sheets (SDS's) state for the chemicals being used. Reduce risk by notifying the Department Safety Coordinator and EH&S of hazards. Use a fume hood when required by the SDS, SOP or by campus policy. Know the location of the emergency eyewash station and shower nearest your lab. Read and document training on the Building Evacuation Plan, participate in building fire drills. Refer to the Center for Neuroscience website: http://neuroscience.ucdavis.edu/healthandsafety/LaboratoryWasteManagement.html - ChemicalWaste, and EH&S SafetyNet #'s 4, 5, 8, 13, 16, 19, 32, 42, 43, 45, 50, 60, 108 and other SafetyNets as appropriate to your laboratory. All personnel to receive training on Chemical Laboratory Safety, Hazardous Waste Management and Waste Minimization during the first 6 months of employment or of conducting this type of work. Training and enforcement are under the direction of the laboratory's PI. 	<ul style="list-style-type: none"> Wear protective clothing (goggles, mask, gloves, lab coat) as required by the MSDS, SOP, or campus policy. Always obtain an appropriate fit test prior to using an N95 respirator.
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Cryogenic Liquids	<ul style="list-style-type: none"> Exposure to cryogenic liquids 	<ul style="list-style-type: none"> Avoid unnecessary exposures Proper adherence to cryogenic procedures. Safety Net # 58 "Safety Precautions for Cryogenic Liquids" for more information. Training and enforcement are under the direction of the laboratory's PI. 	<ul style="list-style-type: none"> Proper selection and use of tools and protective clothing
Working with Class 1 Lasers (with a fully enclosed laser beam).	<ul style="list-style-type: none"> Present no health risk due to enclosed beam. Some ancillary hazards apply. 	<ul style="list-style-type: none"> Do not operate laser equipment unless the person supervising the use of the equipment has trained you. Refer to EH&S SafetyNet #'s 73, 74, 75, 76 and 77. Training and enforcement are under the direction of the laboratory's PI or manager. 	
Working with Class 3b Lasers, during alignment or adjustment.	<ul style="list-style-type: none"> Class 3b lasers present a hazard to the eye from intrabeam viewing and specular reflection. 	<ul style="list-style-type: none"> The door shall be locked and a sign placed on the door stating "Do Not Enter, Laser Alignment in progress." Do not operate or adjust the laser equipment unless you have been trained by the Campus Laser Safety Officer from EH&S (Laser Safety Course), and have at least read the User's Manual or have been trained by certified trainers. Refer to EH&S SafetyNet #'s 73, 74, 75, 76, and 77. Training and enforcement are under the direction of the PI in charge of the equipment. 	<ul style="list-style-type: none"> Must wear eye protection that is appropriate to the type of laser.

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Working with Class 4 Lasers, during alignment or adjustment.	<ul style="list-style-type: none"> Class 4 lasers present a hazard to the eye from intrabeam viewing, specular, and diffuse reflections. They can also cause thermal burns and start fires in the laboratory. 	<ul style="list-style-type: none"> The door shall be locked and a sign placed on the door stating "Do Not Enter, Laser Alignment in progress." Do not operate or adjust the laser equipment unless you have been trained by the Campus Laser Safety Officer from EH&S (Laser Safety Course), and have at least read the User's Manual or have been trained by certified trainers. Refer to EH&S SafetyNet #'s 73, 74, 75, 76, and 77. Training and enforcement are under the direction of the PI in charge of the equipment. 	<ul style="list-style-type: none"> Must wear eye protection that is appropriate to the type of laser.
Antimicrobial disinfection.	<ul style="list-style-type: none"> Exposure to disinfectant chemicals. 	<ul style="list-style-type: none"> See the MSDS for the chemical being used. Know the location of the emergency eyewash station and shower nearest your lab. Refer to EH&S SafetyNet #'s 16, 19 and 85. Training and enforcement are under the direction of the laboratory's PI. 	<ul style="list-style-type: none"> Wear protective clothing and eyewear as per the MSDS, SOP or campus policy.
General office work.	<ul style="list-style-type: none"> Backstrain, eyestrain, repetitive motion injury. 	<ul style="list-style-type: none"> Ensure that workstations are ergonomically correct. Refer to EH&S SafetyNet #'s 17, 41, 46 and 96. Training and enforcement are under the direction of the laboratory's PI. 	

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General office work.	<ul style="list-style-type: none"> Physical injuries due to slips, trips and falls, and falling objects. 	<ul style="list-style-type: none"> Keep floors clear of debris and liquid spills. If a spill can't be cleaned immediately, use the "wet floor" sign to warn others of the potential hazard. Keep furniture boxes, etc. from blocking doorways, halls and walking space. Do not stand on chairs of any kind; use proper footstools or ladders. Do not store heavy objects overhead. Do not top-load filing cabinets, fill bottom to top. Do not open more than one file drawer at a time. Brace tall bookcases and tall file cabinets to walls. Refer to EH&S SafetyNet # 46 and 83. Training and enforcement are under the direction of the laboratory's PI. 	
General office work.	<ul style="list-style-type: none"> Electrical hazards. 	<ul style="list-style-type: none"> Do not use extension cords in lieu of permanent wiring. Ensure that high wattage appliances do not overload circuits. Replace frayed or damaged electrical cords. Ensure that electrical cords are not damaged by being wedged against furniture or pinched doors. Refer to EH&S SafetyNet #'s 20 and 109. Training and enforcement are under the direction of the laboratory's PI. 	

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General office work.	<ul style="list-style-type: none"> Physical injuries due to fires, earthquakes, bomb threats and workplace violence. 	<ul style="list-style-type: none"> Be familiar with the emergency action and fire prevention plan including emergency escape drills. Attend Workplace Violence training offered by UC Davis Police Department. Refer to the "Center for Neuroscience Building Evacuation Plan" and EH&S SafetyNet # 83. Training and enforcement are under the direction of the laboratory's PI. 	
Handling and moving heavy items and equipment.	<ul style="list-style-type: none"> Ergonomic hazards including heavy lifting, repetitive motions, awkward motions, crushing or pinching injuries, etc. 	<ul style="list-style-type: none"> Get help with all loads that cannot be safely lifted by one person. Use mechanical means to lift and move heavy items; push carts and dolly rather than pull; employ proper lifting techniques at all times. Wear proper hand and foot protection to protect against crushing or pinching injuries. Refer to EH&S SafetyNet #'s 29, 41 and 46. Training and enforcement are under the direction of the laboratory's PI. 	