

JOB SAFETY ANALYSIS		DEPARTMENT: Center for Neuroscience	JOB TYPE: Laboratory Research
<i>JOB FUNCTION</i>	<i>POTENTIAL HEALTH OR INJURY HAZARDS</i>	<i>SAFE PRACTICE, APPAREL, OR EQUIPMENT</i>	
Handling biological materials.	Exposure to biological agents via inhalation, contact, ingestion or injection.	Wear proper protective clothing and eyewear as necessary. Practice proper personal hygiene (handwashing before and after working with biological hazard). Enroll in the Employee Health Services – Health Monitoring Program. Attend EH&S Bloodborne Pathogen Program training, be familiar with the EH&S BioSafety Manual. Know the location of the emergency eyewash station and shower nearest your lab. Refer to the “Newton Court Complex Chemical, Radiological, and Biological/Medical Waste Disposal Policies and Procedures”, and EH&S SafetyNet #'s 16, 19 and 85. Training and enforcement are under the direction of the laboratory's Principal Investigator (PI).	
Handling chemicals.	Exposure to chemicals which may be corrosive, flammable, explosive, carcinogenic, or toxic such as HCl, NaOH, acetone, ethanol, picric acid, paraformaldehyde, etc.	Be familiar with what the MSDS states for the chemicals being used. Use a fume hood if necessary. Wear protective clothing (goggles, mask, gloves, lab coat). Know the location of the emergency eyewash station and shower nearest your lab. Refer to the “Newton Court Complex Chemical, Radiological, and Biological/Medical Waste Disposal Policies and Procedures”, 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. Training and enforcement are under the direction of the laboratory's PI.	
Handling radiological items.	Exposure to radioactive materials.	Attend EH&S Radiation Safety class before beginning work with radioisotopes. Wear lab coat, gloves, closed-toed shoes and use shielding and fume hood when possible. Monitor lab with wipe tests every two weeks. Discard radioactive waste per EH&S guidelines. Refer to “Newton Court Complex Chemical, Radiological, and Biological/Medical Waste Disposal Policies and Procedures”, and EH&S SafetyNet #'s 9, 10, 15, 32, 37, 56, 61, 67, 71, 78, 100, 106 and 108. Training and enforcement are under the direction of the laboratory's PI.	
Working with Class 1 Lasers (with a fully enclosed laser beam).	Present no health risk due to enclosed beam. Some ancillary hazards apply.	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.	Class 3b lasers present a hazard to the eye from intrabeam viewing and specular reflection.	Must wear appropriate eye protection. 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.	

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Working with Class 4 Lasers, during alignment or adjustment.	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.	Must wear appropriate eye protection. 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.
Antimicrobial disinfection.	Exposure to disinfectant chemicals.	Wear protective clothing and eyewear as necessary. 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.
General office work.	Backstrain, eyestrain, repetitive motion injury.	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.
General office work.	Physical injuries due to slips, trips and falls, and falling objects.	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.	Electrical hazards.	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.
General office work.	Physical injuries due to fires, earthquakes, bomb threats and workplace violence.	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.	Ergonomic hazards including heavy lifting, repetitive motions, awkward motions, crushing or pinching injuries, etc.	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.