LABORATORY SAFETY HIGHLIGHTS

PLUTH LAB

FOR YOUR OWN SAFETY AND THE SAFETY OF OTHERS, HEED THE FOLLOWING RULES!

EMERGENCY: dial 911 first, *AND* 6-2919 (EHS/UOPD) | Mike cell: 617-999-6658

**• Safety Shower, Eyewash, Fire Extinguishers.** Each lab member must be familiar with the location and operation of this equipment. Eyewashes should be tested/flushed on a weekly basis. Safety showers and fire extinguishers are tested annually by EHS. Report damaged safety equipment to EHS immediately at 346-3192.

**• Long pants, shirts that cover the torso and closed-toed shoes are required at all times. Additional skin protection is required when working with the following chemicals:**

Chemicals including acids, bases, strong irritants, and oxidizers require lab coats. Higher level PPE is required for use of pyrophoric, highly flammable, and air reactive chemicals, or other specialized hazards.

**• Wear safety goggles when using any chemicals listed above and when performing the procedures below:**

Eye protection is required at all times when in the lab.

**• Wear chemical resistant gloves when working with ANY of the reagents above.**

Heed the “one glove rule”: remove one glove when moving between rooms to avoid touching doorknobs with a contaminated glove. Note that glove materials differ in their permeability to different reagents. Gloves should be removed as soon as possible if contaminated. If significant contact is possible consult a glove chart to identify the best glove, gloves can be purchased at the Science Stores in cascade annex.

**• Disposal of common hazardous reagents (EHS DISPOSAL: 6-3192)**

Organic, halogenated, and aqueous waste should be segregated appropriately. All biological materials should be bleached before disposal. When possible, sulfur-compounds should be quenched / oxidized before disposal. Waste containers should be properly labeled, and closed when not in use

**• Storage of Hazardous Liquids**

Solvents should be stored in flammable cabinets when not in use. Use secondary containment, such as a bottle carrier or cart, during transport. Take care when transporting compounds to/from the glovebox room

**• Heating Liquids and Exothermic Reactions**

All oil baths must be in stainless steel containers; Silicone oil (not mineral oil) should be used in all heating baths. If heating >150 oC, consult the safe heating handout for appropriate heating materials

**• Fume Hoods:**  Follow the guidelines posted by the hood, never raise the hood sash above the marked operating height when it is in use, and keep all work at least 6 inches behind the hood sash.

**• Cryogenic Liquids and Compressed Gas:**

Ensure that gas cylinders are adequately secured prior to use. Use appropriate meters when using H2S or CO gas from a cylinder. Always quench H2S solutions appropriately before disposal.

**IMMEDIATELY REPORT SIGNIFICANT CHEMICAL SPILLS OR ANY INJURIES USING THE CONTACT INFORMATION ABOVE**