



Safety Movies Available Upon Request at the Safety Office, J108

Practicing Safe Science

29 minutes—

Safety instruction is presented in a lively and challenging way. Chemical, physical, radiological, and biological hazards in the molecular biology laboratory are addressed through reenactments of actual laboratory accidents and demonstrations of good safety techniques. A significant message in the video is the importance of good work habits and consideration for others.

Controlling Your Risks: HIV in the Research Laboratory

28 minutes—

In a documentary style, this video addresses the basic principles of biological safety. While the program centers on working with live HIV and human blood specimens, the principles demonstrated are equally relevant to protection against transmission of other bloodborne pathogens and infectious microorganisms.

Chemical Hazards

10 minutes—

Features the protocols phenol-chloroform extraction and ethanol precipitation. The video demonstrates the safety principles that apply to working with hazardous chemicals such as phenol, tris hydrochloride, chloroform, sodium acetate, and ethanol.

Emergency Response

12 minutes—

Stresses preparation and training. The video addresses fire safety and emergencies involving personal injuries, and includes demonstrations on the proper cleanup of spills involving radioactive materials, chemicals and biological agents.

Centrifugation Hazards

9 minutes—

Demonstrates safe centrifugation practices. The video studies the choices critical to safety that researchers face when centrifuging . . . which centrifuge? which rotor? which tubes and adapters? what speed and for how long? what level of containment?

Chemical Storage Hazards

11 minutes—

Reviews the basic principles of safe chemical storage. The video addresses organic and inorganic chemicals, acids, bases, flammables, toxics, caustics, oxidizers, and corrosives and offers guidance for storing chemicals safely in a typical research laboratory.

Glassware Washing Hazards

10 minutes—

Demonstrates skillful glassware washing and sterilization techniques. The video stresses the importance of proper glassware washing to good science, promotes the use of personal protective equipment, and encourages teamwork and good work habits.

Mammalian Cell Culture Hazards

9 minutes—

Demonstrates skillful tissue culture technique. The video reviews safety precautions that will protect researchers from cell lines, which may contain infectious agents, and protect cell cultures from contamination, which can ruin the experiment.

Assessing Risks of Toxic Chemicals

11 minutes—

Promotes sensible risk assessment, and stresses planning, mentoring, being informed. The video tells how to determine a chemical's inherent toxicity and provides an understanding of acute versus chronic toxicity. Dose, duration and frequency, and potential routes of exposure are reviewed.