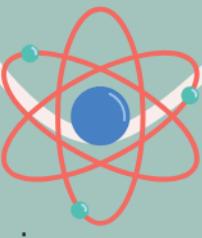


General Laboratory Safety Rules

At CeNS, we are committed to maintaining a safe, responsible, and sustainable research environment. All members, visitors, and students must strictly adhere to the following laboratory safety rules and protocols.



1. General Conduct

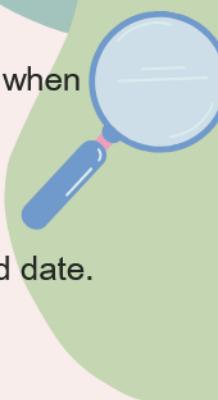
- Work in the laboratory only after proper authorization and training.
- Never work alone during hazardous experiments or outside regular working hours.
- Report all accidents, spills, or unsafe conditions immediately to the laboratory supervisor or safety officer.
- Maintain a clean and organized workspace; clutter increases the risk of accidents.
- Eating Food & Drinking beverages should be strictly avoided.

2. Personal Protective Equipment (PPE)

- Laboratory coat, safety goggles, and appropriate gloves must be worn at all times.
- Closed-toe shoes are mandatory; sandals or open footwear are not permitted.
- Long hair must be tied back, and loose clothing or jewelry should be avoided.
- Additional PPE (e.g., face shield, respirator, or heat-resistant gloves) must be used when required.

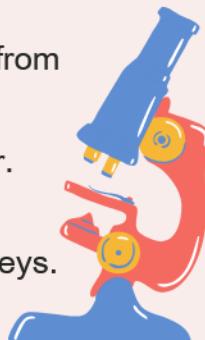
3. Chemical Handling and Storage

- Label all containers clearly with chemical name, concentration, hazard symbols, and date.
- Store chemicals according to compatibility:
 - Acids, bases, flammables, oxidizers, and toxics must be segregated.
- Never return unused chemicals to stock bottles to avoid contamination.
- Handle volatile or toxic substances only inside fume hoods with proper ventilation.
- Dispose of chemical waste only in designated containers following CeNS waste management protocols.



4. Handling Compressed Gas Cylinders (N₂, O₂, Ar, H₂, etc.)

- All cylinders must be securely fastened to a wall or support stand using appropriate clamps or chains.
- Use only approved regulators and fittings compatible with the gas type.
- Hydrogen and other flammable gases must be used in well-ventilated areas away from ignition sources.
- Do not tamper with cylinder valves, safety devices, or identification labels.
- When not in use, close cylinder valves and release line pressure from the regulator.
- Store cylinders upright in designated storage areas, segregated by gas type:
- Fuel gases (e.g., H₂) separate from oxidizers (e.g., O₂).
- Transport cylinders only with safety caps in place and using approved cylinder trolleys.



5. Electrical and Instrumental Safety

- Inspect all electrical equipment and cords before use. Do not use damaged cables or plugs.
- Turn off instruments after use or when unattended for long periods.
- Avoid overloading electrical circuits and using unauthorized extension cords.
- Report any instrument malfunction immediately to technical staff or supervisors.



General Laboratory Safety Rules

6. Fire Safety

- Know the location and operation of fire extinguishers, fire blankets, and emergency exits.
- Do not block exits or access to safety equipment.
- In case of fire:
 - a. Stop work immediately and alert nearby personnel.
 - b. Evacuate the area.
 - c. Call for assistance (security/safety officer).

7. Waste Disposal

- Segregate chemical, biological, and solid waste as per CeNS disposal guidelines.
- Label waste containers with contents and hazards before disposal.
- Do not pour chemicals or solvents into sinks.

8. Emergency Procedures

- Familiarize yourself with emergency exits, safety showers, eyewash stations, and first aid kits.
- In case of exposure or injury:
- Flush affected area with water for at least 15 minutes (for chemical exposure).
- Seek immediate medical assistance.
- Always inform the supervisor / any faculty immediately available

9. Environmental and Ethical Responsibility

- Practice minimum-waste and energy-efficient research methods.
- Dispose of all materials responsibly to minimize environmental impact.
- Respect shared facilities and ensure proper handover of instruments and spaces after use

10. Compliance

- All researchers, students, and visitors are expected to comply with these rules and institutional safety policies.
- Repeated non-compliance may lead to suspension of laboratory access.

Individual labs:

- Safety rules and procedures have been displayed in individual labs,
- including Physics, Chemistry labs and Other Labs

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Coordinator for Safety, Health and Conservation (SHC)

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