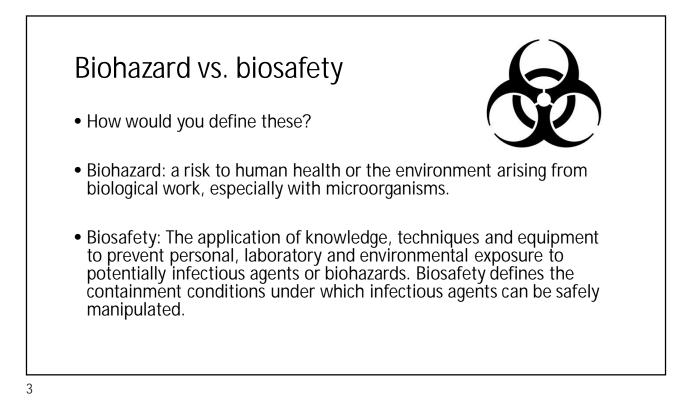
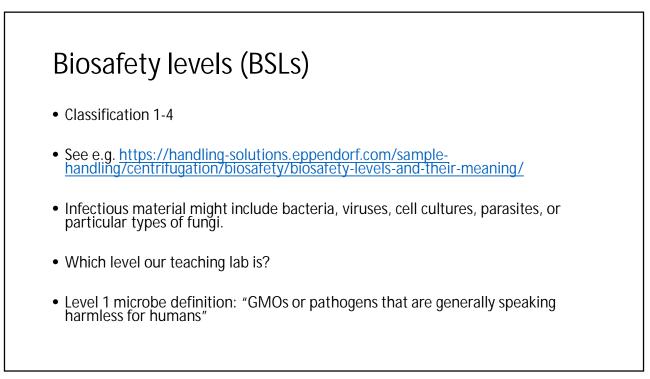
- Assignments last week
- Lab manual exercises
- Lab safety aspects
- Report writing



1





Protecting yourself and the others Biosafety is about protecting not only yourself but also others, the community and the environment Note that you are also protecting the experiment! For this lab course: read through the starting session lab rules, e.g.: Wear lab coat, goggles and gloves. Do NOT wear laboratory clothing outside the laboratory, e.g. in coffee rooms and toilets. Why? Do NOT wear open toe shoes. Why? Wash hands before leaving the laboratory. No eating or drinking in the lab.





Good microbiological practices (GMP)

• consists of aseptic techniques and other good microbiological practices that are not uniformly defined but are necessary to prevent contamination of the laboratory with the agents being handled and contamination of the work with agents from the environment.

Working area and procedures

- Aseptic work essential
- Aseptic vs. sterile
- Aseptic: A surface, object, product, or environment has been treated such that it is free of contamination. Bacteria, viruses, or other harmful living organisms cannot survive or reproduce.
- Sterile: A product that is completely free of microscopic organisms.

How do you promote aseptic work while working in the lab?

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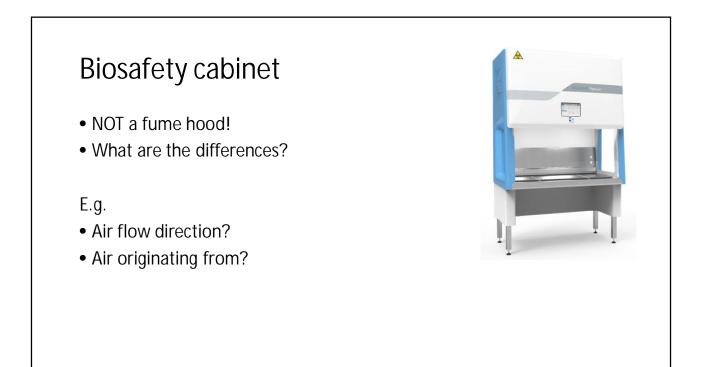
Working area

- The laboratory should be kept neat, clean and free of non-necessary materials.
- Work surfaces must be decontaminated after any spill and at the end of the day.
- All contaminated materials must be decontaminated before disposal or cleaning.
- Chemical decontaminants (e.g., bleach, EtOH) can be used to decontaminate lab benches.

Procedures

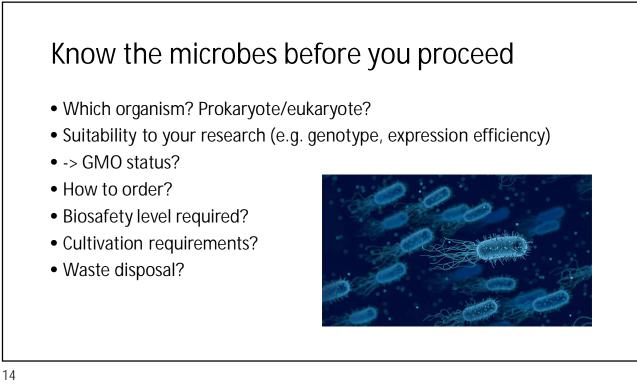
- All procedures should be performed in a way that minimizes the formation of aerosols and droplets.
- Contaminated liquids must be decontaminated (chemically or physically) before discharge.
- All material (written documents etc.) that are expected to be removed from the laboratory need to be protected from contamination.
- All spills, accidents and exposures to infectious materials must be reported to the supervisor.

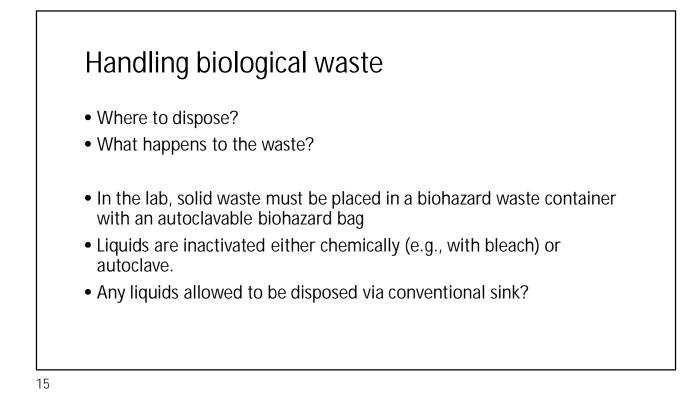
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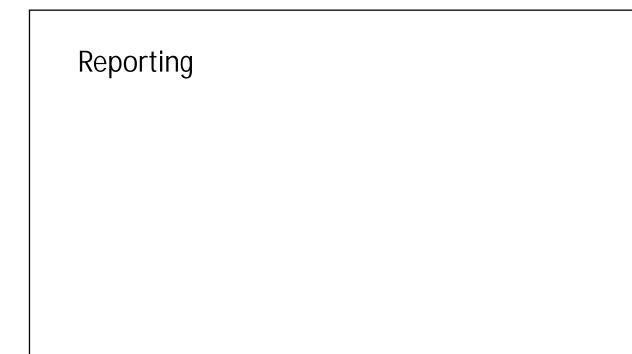


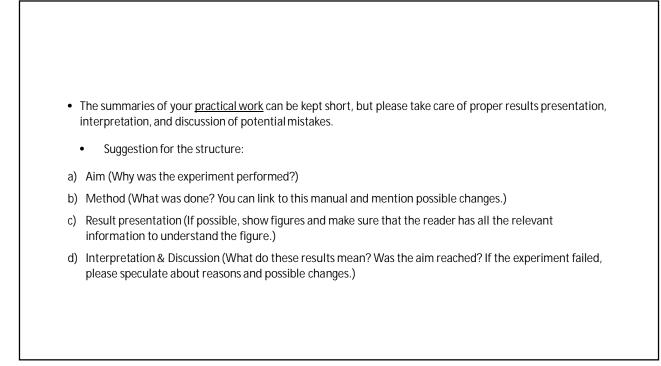
Autoclave An autoclave is a pressured vessel producing steam Sterilization usually takes about 20 mins at 121°C Dry or steam sterilization Note that not some materials cannot be autoclaved (Which?) Attention: things are HOT when you remove them from the autoclave Proper training required for operating

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Remote sessions

- Tuesday, 10.15 am groups 2 and 3
- Wednesday, 10.15 am group 1
- First the new assignment about recombinant plasmid, then going through the PCR primer work