Creating a sterile environment using the Bunsen burner (EN)

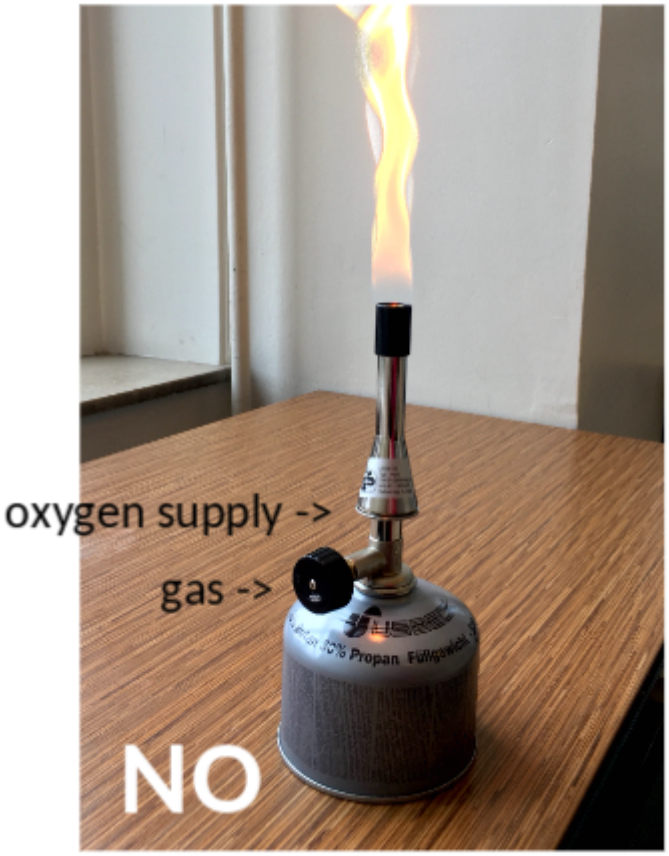
Creating a sterile working environment, using the Bunsen burner

Goal: *To give “your” microorganism a head start on "foreign" microorganisms present in the air, on the table or on instruments you use.*

Creating a sterile bubble with a blue 'rustling' flame:

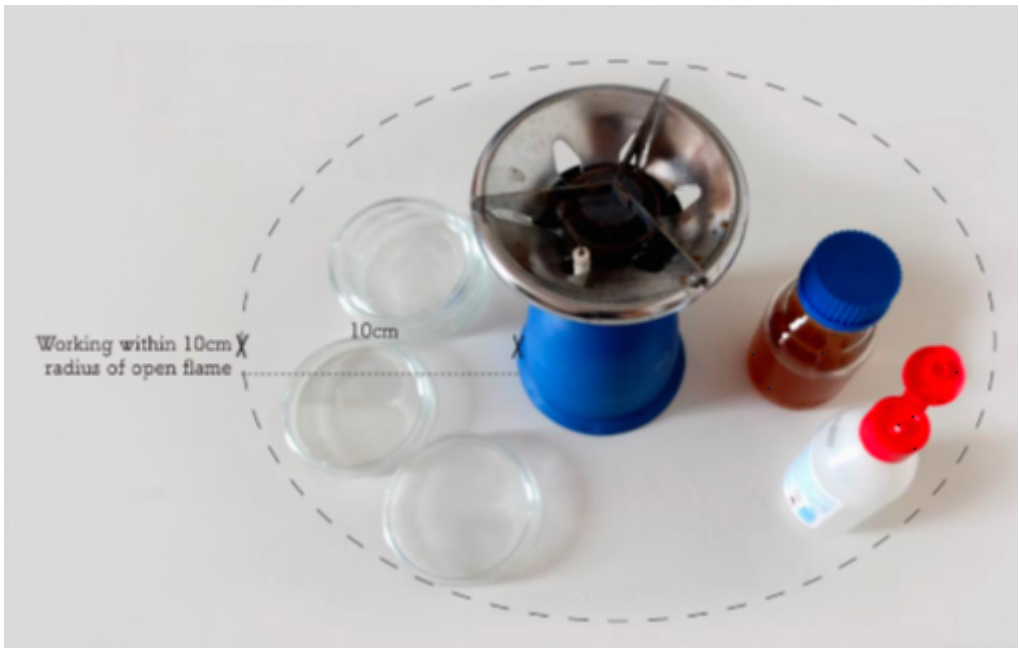
- Close windows and doors and let everyone know you will be inoculating and lighting the flame.
- No talking, no walking around.
- Sit down while working with the flame, to avoid accidentally leaning into the flame.
- Clean the table with 70% alcohol BEFORE you light the flame.

- Open the gas valve and quickly light the yellow flame. Then open oxygen supply ring until you get a noisy blue 'rustling' flame:





- Work within 10 cm radius of flame on all sides:



- Don't wear gloves or synthetic face masks (can glue to skin when hot).
- Point tip of alcohol bottle away from flame at all times!
- Open petri dishes as little as possible, open petri dishes 'oyster style' towards the flame.
- Pass neck of bottle through the flame before and after each pour to sterilize the neck.
- Work fast but don't rush, get comfortable and at all times stay seated.

- Don’t move the gas burner when it's on.
- When finished, close the oxygen supply until you get a yellow flame, then close the gas supply.

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