

PTC - C6 (Lab Layout and Equipment) Cheat Sheet

by woozing via cheatography.com/146689/cs/31812/

What are you going to Do in your lab?

higher costs, more expensive equipment/facil-1. Micro-propagation

2. Basic cell culture lower cost lab

Basic Requirements for a Tissue Culture Laboratory

microscope, LAF, incubator (CO2?), Refrigerator, 1. Equipment Glassware, NUNC Plastic ware, dissection tools and **Apparatus**

2. Washing and storage facilities

3. Media Preparation Room

4. Sterilization Room

5. Aseptic chamber for culture

6. Culture rooms or incubators

7. Light & humidity control devices

8. Observation/recording area with a computer for data processing

Other Facilities

- 1. Hand washing area
- 2. Fire extinguishing system
- 3. Waste disposal facilities

Location

- -beside a biology laboratory, particularly molecular biology laboratory (or a molecular biology laboratory should be beside a culture labora-
- -far from other laboratories that handle dirty or pathogenic materials, e.g. microbiology laboratory
- -> Could be positioned in different ends of a building
- ->Or different floor of a building
- ->Large-scale culturing facility should not be at the same building with microbiology laboratory at all.

Sectioning the Laboratory

-Flow of laboratory, with consideration for...

1. Sterility washing area should not be in the centre of culturing area 2. Convenwashing area should be beside media preparation

ience 3. Human culturing area should not be near the entrance of

movement the laboratory 4. Area size sectioning is more effective than wall-up different

areas if area allocated is small

5. Laboratory high throughput laboratory would have wider throughput walkway as well

may need to allocate space for a gene gun or when 6. Type of working with Agrobacterium, or microinjection research

7. Location of electrical appliances should be near plug points, distillation unit should be near a tap equipment

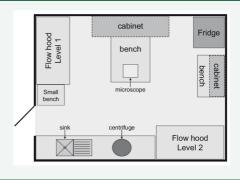
8. Future laboratory

expansion

Design

- a) Plant Tissue Culture Lab with equipment
- b) Animal Cell Culture Lab with equipment

Simple Tissue Culture Lab Set-up





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