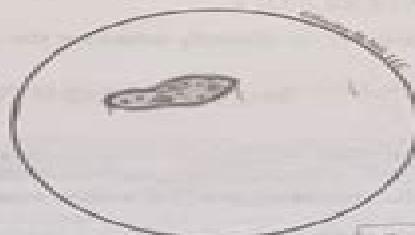


WORKSHEET 1

Lab 1: Worksheet

1. The numerical aperture of a compound microscope can be adjusted to maximize the resolution. The condenser focus the light at the level of the specimen.
2. True or False: You can use either the coarse or fine focus when viewing through the $10\times$ objective. False (use Fine focus)
3. The *Paramecium* below was viewed through a $40\times$ objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



$$\text{Actual size of cell} = \frac{\text{diameter of field of view}}{\text{N of times organism can fit in field of view}}$$

$$\begin{aligned} & 40\times = 0.44\text{mm} \\ & = \frac{0.44\text{mm}}{0.44\text{mm}} \\ & = \text{approx } 3.5 \\ & = 0.125714\ldots \text{mm} \end{aligned}$$

Paramecium is 0.13mm

4. Fill in the blanks:

- a. Prokaryotic organisms include two major groups: bacteria and archaea. Eukaryotes are comprised of four major groups: protists, fungi, plants, and animals.
- b. Prokaryotes have a cell wall made of polysaccharides and amino acids, while the same structure in plants is composed of cellulose and in fungi is chitin.
- c. Prokaryotic DNA is typically organized in a single chromosome, located in the nucleoid region. Eukaryotes, in contrast, store DNA in their nucleus.
- d. Some bacterial cells have a gelatinous outer covering called a glycocalyx. What is the function of this structure?
 - Protects the bacterium from desiccation
 - Traps water
- e. Other bacteria use rotating flagella for locomotion.

Bio Lab Manual Answer

**Neena Sinha, R Rangarajan, R P
Manchanda, R K Gupta, Rajesh Kumar**

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Weisshaar, 1997-12 This self guided introductory biology lab manual features a full range of activities that show how basic biological concepts can be applied to a wide variety of plants animals and microorganisms It is designed to help readers including those who are academically underprepared acquire the basic knowledge needed to make informed decisions about biological questions that arise in everyday life develop the problem solving skills that will lead to success in a competitive job market and learn to work effectively and productively as a member of a team Focuses on the scientific method requiring readers to develop hypotheses set up experiments collect data record their data in graphs and charts and draw conclusions from their experimental results Offers opportunities to transfer content knowledge to real life applications through questions interwoven into each activity Each laboratory includes a brief discussion of background information hints for solving problems important safety information Comprehension Checks and Self Tests with answers For anyone beginning a study of biology including those who are academically underprepared or from an ESL background *Biology in the Laboratory* Doris R. Helms, Carl W. Helms, Robert J. Kosinski, John C. Cummings, 1997-12-15 Provides a choice of 46 laboratory topics and more than 200 experiments Includes a diversity of instructional approaches including simple guided inquiries more complex experimental designs and original student investigations Biology Laboratory Manual Darrell S. Vodopich, Randy

Moore, 1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available **Thinking About Biology** Mimi Bres, Arnold Weisshaar, 2015-02-23 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book For one semester non majors introductory biology laboratory courses with a human focus This manual offers a unique extensively class tested approach to introductory biology laboratory A full range of activities show how basic biological

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Prentice Hall Miller

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Illustrated Guide to Home Biology Experiments Robert Thompson,Barbara Fritchman

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