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BACTERIAL RESPONSES

CHEMOTAXIS Bacteria sense  
chemicals and move

accordingly PHOTOTAXIS

AEROTAXIS THERMOTAXIS

MAGNETOTAXIS CAPSULES and

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SLIME LAYERS CELL WALL Gel-like layers made of glycocalyx outside cell wall that protects/ allows surface attachment Once attached, cells can

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Terms in this set (87)  
microscopy reveals two  
fundamental cell types... -  
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Structure Ar - small size gives high surface-area-to-low-volume ratio. \* facilitates rapid uptake of nutrients and excretion of wastes. \* allows rapid growth.

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and Cell structure 1 Chapter  
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structure. Biology 261 ;  
Prof. Santos; 2. Microscope-

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tool used to see objects too small to be seen by the naked eye. Types of microscopes used in the study of microorganisms include the light microscope, dark field microscope, phase contrast

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microscope,

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Structure ...~~

The primary stain is the first dye applied in differential staining and generally stains all cells.  
2. The smear is rinsed to



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remove excess dye and then flooded with a solution called Gram's iodine. The iodine combines with the crystal violet to form a dye-iodine complex, thereby decreasing the solubility of the dye within the cell. 3.

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(pages 70-91) (Create  
Notecards of these  
Vocabulary Words. Due: A-Day

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10/9, B-Day: 10/10) 1.

**Eyepiece:** contains the ocular lens, which provides a magnification power of 10x to 15x, usually. This part is where you look through the microscope.

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Gravity. Created by.  
afraino. 95%. Key Concepts:  
Terms in this set (20) What  
would be the total  
magnification of an image  
viewed on a bright-field

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~~Structure~~ microscope when using the ocular (10X) and the high power objective (40X)?  $40 \times 10 \times$

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Cell Structure Deck (93) 1  
Eukaryotic cells are A. less  
complex than prokaryotic  
cells. B. members of the  
domains Bacteria and  
Archaea. C. defined by the  
presence of a membrane bound

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nucleus. D. able to reproduce more rapidly than prokaryotes. E. less complex than prokaryotic cells ...

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## Principles of

light microscopy - The bright-field microscope. A. In light microscopy, visible light passes through the specimen. 1. The most type common microscope is the \_\_\_\_\_ . a. The

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~~Structure~~ Specimen should appear dark against a bright, white background.

## ~~Chapter 3: Microscopy & Cell Structure~~

A \_\_\_\_\_ - \_\_\_\_\_ microscope makes cells and other dense

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Structure. material appear \_\_\_\_\_ than normal. It dose this by amplifying the effects of the slight differences in the \_\_\_\_\_ index of dense material and the surrounding material. Special optical differences devices increase

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Structure And  
those differences, thereby  
enhancing the contrast. ...  
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Here, we will focus on the most clinically relevant techniques developed to identify specific microbes, cellular structures, DNA sequences, or indicators of infection in tissue samples, under the microscope. 3.3:

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Structure As Living Things. The theory of spontaneous generation states that life arose from nonliving matter.

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Objectives After studying  
the material in this  
chapter, you should be able

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to: Microscopy 1. List and describe the kinds of microscopes used in microbiology. 1. Define and contrast: Magnification Resolution 2. Describe two types of electron microscopes. Prokaryotic

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3. List the characteristics of prokaryotic cells.



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microscope use in biological  
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presents some of the optical  
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