

Name Rocio Castro Period 4

Chapter 6: A Tour of the Cell

Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry.

1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses; and with the improvements in optical aids, a new world was opened. *Magnification and resolving power* limit what can be seen. Explain the difference.

Magnification is the ratio of an object's image to its real size. In contrast, resolution measures the clarity of the image. How clear the picture is ~ accuracy in visualization
VERSUS
How accurate the picture is ~ to scale? $9 \rightarrow N$

2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?

A major disadvantage of the electron microscopes is their inability to reflect color

3. Study the electron micrographs in your text. Describe the different types of images obtained from:

scanning electron microscopy (SEM)

The SEM provides good 3-D images which is good for getting a good depth perception - used for detailed studies

transmission electron microscopy (TEM)

2-D imaging that is used/beneficial for achieving extreme detail where you're able to compare well since you can enhance contrast

4. In *cell fractionation*, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure? *The ribosomes*

Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions.

5. Which two domains consist of prokaryotic cells?

Bacteria and Archaea consist of prokaryotic cells
EX: fungi, animals & plants

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

The DNA of the eukaryotic cell is in the nucleus, versus in prokaryotic cells, the DNA is in the nucleoid (not membrane enclosed)

Holtzclaw Ap Biology Guide

Lauren Gardner



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Big Ideas that organize the course and introducing students to the science practices Preparing for the Biology AP Exam, Biology (School Edition) Holtzclaw, Theresa K Holtzclaw, Neil A. Campbell, Jane B. Reece, 2008-03-14 **AP Biology Ultimate Guide** Amanda Chou, 2018-10-15 AP Biology Ultimate Guide is a must have study guide for success on the AP Biology Test **Pearson Education Test Prep Series for AP® Biology** Fred W. Holtzclaw, Theresa Knapp Holtzclaw, 2014 *Cancer Symptom Management* Connie Henke Yarbro, Margaret Hansen Frogge, Michelle Goodman, 2004 Accompanying CD ROM contains customizable patient self care guides **The Education Index**, 1988 **AP Biology** Jane B. Reece, Fred W. Holtzclaw, 2014-09-01 **AP Biology Review Book** Ap Biology Test Prep Team, 2017-03-17 Study guide test prep for the Advanced Placement biology exam Comprehensive reviews proven test strategies practice test questions Cover **AP* Biology** Fred W. Holtzclaw, 2008 **Forthcoming Books** Rose Arny, 1999 *AP Biology Study Guide*, 2018 *Antiquarian Bookman*, 1960 **The Standard Periodical Directory**, 1989 ASAP Biology: A Quick-Review Study Guide for the AP Exam The Princeton Review, 2018-01-30 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide Cracking the AP Biology Exam LIKE CLASS NOTES ONLY BETTER The Princeton Review s ASAP Biology is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can t bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Biology you ll find Essential concepts terms and functions for AP Biology all explained clearly concisely Diagrams charts lists and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that s perfect for last minute exam prep and for daily class work Topics covered in ASAP Biology include The chemistry of life Evolutionary biology Cells cellular energetics Heredity molecular genetics Animal structure function Behavior ecology Quantitative skills biostatistics and more Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide Cracking the AP Biology Exam

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