

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? $M \rightarrow N$

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)

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Table of Contents Ap Biology Holtzclaw Reading Guides Chapter 43

1. Understanding the eBook Ap Biology Holtzclaw Reading Guides Chapter 43
 - The Rise of Digital Reading Ap Biology Holtzclaw Reading Guides Chapter 43
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Holtzclaw Reading Guides Chapter 43
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Biology Holtzclaw Reading Guides Chapter 43
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Holtzclaw Reading Guides Chapter 43
 - Personalized Recommendations
 - Ap Biology Holtzclaw Reading Guides Chapter 43 User Reviews and Ratings
 - Ap Biology Holtzclaw Reading Guides Chapter 43 and Bestseller Lists

5. Accessing Ap Biology Holtzclaw Reading Guides Chapter 43 Free and Paid eBooks
 - Ap Biology Holtzclaw Reading Guides Chapter 43 Public Domain eBooks
 - Ap Biology Holtzclaw Reading Guides Chapter 43 eBook Subscription Services
 - Ap Biology Holtzclaw Reading Guides Chapter 43 Budget-Friendly Options
6. Navigating Ap Biology Holtzclaw Reading Guides Chapter 43 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Holtzclaw Reading Guides Chapter 43 Compatibility with Devices
 - Ap Biology Holtzclaw Reading Guides Chapter 43 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Holtzclaw Reading Guides Chapter 43
 - Highlighting and Note-Taking Ap Biology Holtzclaw Reading Guides Chapter 43
 - Interactive Elements Ap Biology Holtzclaw Reading Guides Chapter 43
8. Staying Engaged with Ap Biology Holtzclaw Reading Guides Chapter 43
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Holtzclaw Reading Guides Chapter 43
9. Balancing eBooks and Physical Books Ap Biology Holtzclaw Reading Guides Chapter 43
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Holtzclaw Reading Guides Chapter 43
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Holtzclaw Reading Guides Chapter 43
 - Setting Reading Goals Ap Biology Holtzclaw Reading Guides Chapter 43
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology Holtzclaw Reading Guides Chapter 43
 - Fact-Checking eBook Content of Ap Biology Holtzclaw Reading Guides Chapter 43
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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