

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? $Y \rightarrow N$

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)

Guide Answers Biology Holtzclaw 46

L Darling-Hammond



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Table of Contents Guide Answers Biology Holtzclaw 46

1. Understanding the eBook Guide Answers Biology Holtzclaw 46
 - The Rise of Digital Reading Guide Answers Biology Holtzclaw 46
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide Answers Biology Holtzclaw 46
 - 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 Guide Answers Biology Holtzclaw 46
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide Answers Biology Holtzclaw 46
 - Personalized Recommendations
 - Guide Answers Biology Holtzclaw 46 User Reviews and Ratings
 - Guide Answers Biology Holtzclaw 46 and Bestseller Lists
5. Accessing Guide Answers Biology Holtzclaw 46 Free and Paid eBooks
 - Guide Answers Biology Holtzclaw 46 Public Domain eBooks
 - Guide Answers Biology Holtzclaw 46 eBook Subscription Services
 - Guide Answers Biology Holtzclaw 46 Budget-Friendly Options

6. Navigating Guide Answers Biology Holtzclaw 46 eBook Formats
 - ePub, PDF, MOBI, and More
 - Guide Answers Biology Holtzclaw 46 Compatibility with Devices
 - Guide Answers Biology Holtzclaw 46 Enhanced eBook Features
7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Guide Answers Biology Holtzclaw 46
 - Interactive Elements Guide Answers Biology Holtzclaw 46
8. Staying Engaged with Guide Answers Biology Holtzclaw 46
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide Answers Biology Holtzclaw 46
9. Balancing eBooks and Physical Books Guide Answers Biology Holtzclaw 46
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide Answers Biology Holtzclaw 46
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guide Answers Biology Holtzclaw 46
 - Setting Reading Goals Guide Answers Biology Holtzclaw 46
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guide Answers Biology Holtzclaw 46
 - Fact-Checking eBook Content of Guide Answers Biology Holtzclaw 46
 - 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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