

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:

- 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 - N*
- 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
- 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
- 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:

- Which two domains consist of prokaryotic cells?
*Bacteria and Archaea consist of prokaryotic cells
EX: fungi, animals & plants*
- 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)

Ap Biology D Reading Chapter 29

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Ortonne**

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Table of Contents Ap Biology D Reading Chapter 29

1. Understanding the eBook Ap Biology D Reading Chapter 29
 - The Rise of Digital Reading Ap Biology D Reading Chapter 29
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology D Reading Chapter 29
 - 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 D Reading Chapter 29
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology D Reading Chapter 29
 - Personalized Recommendations
 - Ap Biology D Reading Chapter 29 User Reviews and Ratings
 - Ap Biology D Reading Chapter 29 and Bestseller Lists

5. Accessing Ap Biology D Reading Chapter 29 Free and Paid eBooks
 - Ap Biology D Reading Chapter 29 Public Domain eBooks
 - Ap Biology D Reading Chapter 29 eBook Subscription Services
 - Ap Biology D Reading Chapter 29 Budget-Friendly Options
6. Navigating Ap Biology D Reading Chapter 29 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology D Reading Chapter 29 Compatibility with Devices
 - Ap Biology D Reading Chapter 29 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology D Reading Chapter 29
 - Highlighting and Note-Taking Ap Biology D Reading Chapter 29
 - Interactive Elements Ap Biology D Reading Chapter 29
8. Staying Engaged with Ap Biology D Reading Chapter 29
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology D Reading Chapter 29
9. Balancing eBooks and Physical Books Ap Biology D Reading Chapter 29
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology D Reading Chapter 29
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology D Reading Chapter 29
 - Setting Reading Goals Ap Biology D Reading Chapter 29
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Biology D Reading Chapter 29
 - Fact-Checking eBook Content of Ap Biology D Reading Chapter 29
 - 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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