

# 6 A Tour of the Cell

## KEY CONCEPTS

- 6.1 Biologists use microscopes and biochemistry to study cells. p. 94
- 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions. p. 97
- 6.3 The eukaryotic cell's genetic instructions are housed in the nucleus and carried out by the ribosomes. p. 102
- 6.4 The endomembrane system regulates protein traffic and performs metabolic functions. p. 104
- 6.5 Mitochondria and chloroplasts change energy from one form to another. p. 109
- 6.6 The cytoskeleton is a network of fibers that organizes structures and activities in the cell. p. 112
- 6.7 Extracellular components and connections between cells help coordinate cellular activities. p. 118
- 6.8 A cell is greater than the sum of its parts. p. 121

### Study Tip

**Draw animal and plant cells:** Draw an outline of an animal cell and add structures, labels, and functions. Draw a plant cell labeled with structures unique to plant cells.



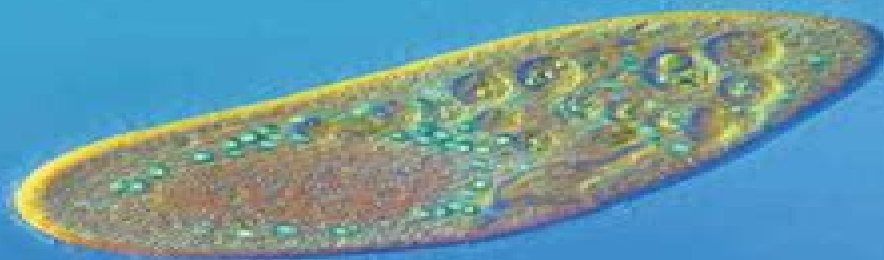
### Go to Mastering Biology

**For Students** (in eText and Study Area)

- Get Ready for Chapter 6
- Figure 6.7 Walkthrough: Geometric Relationships between Surface Area and Volume
- BioFix<sup>®</sup> Animations: Tour of an Animal Cell and Tour of a Plant Cell

**For Instructors to Assign** (in Item Library)

- Tutorial: Tour of an Animal Cell: The Endomembrane System
- Tutorial: Tour of a Plant Cell: Structures and Functions



**Figure 6.1** The cell is an organism's basic unit of structure and function. Many forms of life exist as single-celled organisms, such as the *Paramecium* shown here. Larger, more complex organisms, including plants and animals, are multicellular. In this chapter, we focus mainly on eukaryotic cells—cells with a nucleus.

## How does the internal organization of eukaryotic cells allow them to perform the functions of life?

Internal membranes divide a cell, such as this plant cell, into compartments where specific chemical reactions occur.

### Energy and matter transformations

A system of internal membranes synthesizes and modifies proteins, lipids, and carbohydrates.

Chloroplasts convert light energy to chemical energy.

Mitochondria break down molecules, generating ATP.

### Interactions with the environment

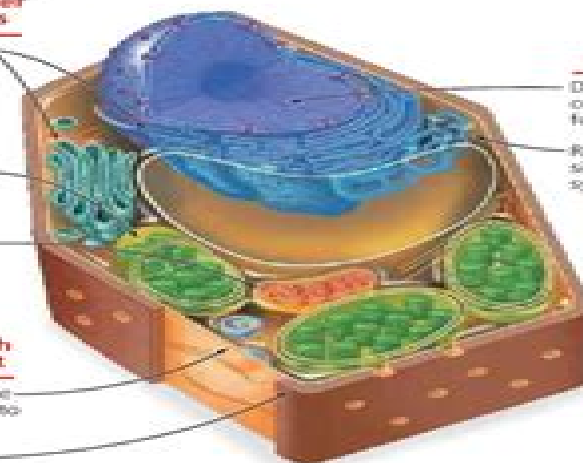
The plasma membrane controls what goes into and out of the cell.

Plant cells have a protective cell wall.

### Genetic information storage and transmission

DNA in the nucleus contains instructions for making proteins.

Ribosomes are the sites of protein synthesis.



# Campbell Biology Chapter 6

**Victor M. Corman**



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## **Table of Contents Campbell Biology Chapter 6**

1. Understanding the eBook Campbell Biology Chapter 6
  - The Rise of Digital Reading Campbell Biology Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Campbell Biology Chapter 6
  - 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 Campbell Biology Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Campbell Biology Chapter 6
  - Personalized Recommendations
  - Campbell Biology Chapter 6 User Reviews and Ratings
  - Campbell Biology Chapter 6 and Bestseller Lists
5. Accessing Campbell Biology Chapter 6 Free and Paid eBooks
  - Campbell Biology Chapter 6 Public Domain eBooks
  - Campbell Biology Chapter 6 eBook Subscription Services
  - Campbell Biology Chapter 6 Budget-Friendly Options
6. Navigating Campbell Biology Chapter 6 eBook Formats

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