

# 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)

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- Figure 6.7 Walkthrough: Geometric Relationships between Surface Area and Volume
- BioFix® Animations: Tour of an Animal Cell and Tour of a Plant Cell

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- Tutorial: Tour of an Animal Cell: The Endomembrane System
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**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

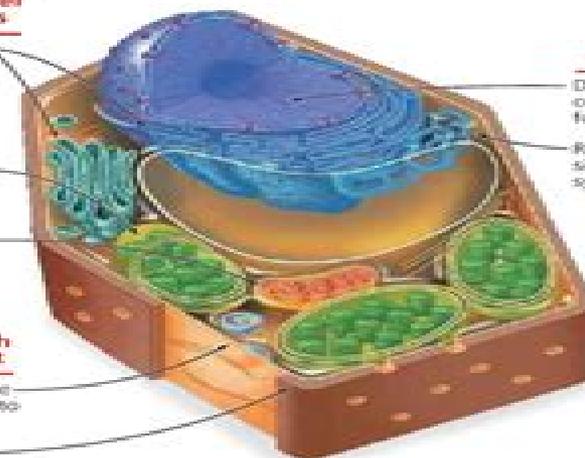
The plasma membrane controls what goes into and out of the cell.

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.



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