

## 7.2 Cell Structure

### Lesson Summary

**Cell Organization** Eukaryotic cells contain a nucleus and many specialized structures.

- ▶ **Cytoplasm** is the fluid portion of a cell.
- ▶ **Organelles** are structures that have specialized functions in eukaryotic cells.
- ▶ The nucleus contains DNA and controls the activity of a cell.

**Organelles That Store, Clean Up, and Support** These structures include:

- ▶ **vacuoles:** membrane-enclosed saclike structures that store water, salts, and organic molecules
- ▶ **lysosomes:** small organelles filled with enzymes that break down large molecules and organelles that are no longer useful
- ▶ the **cytoskeleton:** a network of protein filaments; it helps the cell maintain its shape and is involved in movement
- ▶ **centrioles:** organelles made from tubulins; they help organize cell division in animal cells

**Organelles That Build Proteins** Three kinds of organelles work with the nucleus to make and distribute proteins:

- ▶ **ribosomes:** small particles of RNA and protein found throughout the cytoplasm in all cells; they produce proteins by following coded instructions from DNA
- ▶ the **endoplasmic reticulum (ER):** an internal membrane system where lipid components of the cell membrane are assembled, along with proteins and other materials
- ▶ the **Golgi apparatus:** an organelle that appears as a stack of flattened membranes; it modifies, sorts, and packages proteins and other materials from the ER for storage in the cell or release outside the cell

**Organelles That Capture and Release Energy** Two types of organelles act as power plants of the cells. Both types are surrounded by two membranes.

- ▶ **Chloroplasts** capture the energy from sunlight and convert it into food that contains chemical energy in a process called photosynthesis. Cells of plants and some other organisms contain chloroplasts, which contain chlorophyll.
- ▶ **Mitochondria** are found in nearly all eukaryotic cells; they convert the chemical energy stored in food to a usable form.

# Chapter 72 Cell Structure

**AW Rasmussen**



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