

7.1 Life Is Cellular

Lesson Objectives

- ☑ State the cell theory.
- ☑ Describe how the different types of microscopes work.
- ☑ Distinguish between prokaryotes and eukaryotes.

Lesson Summary

The Discovery of the Cell The invention of the microscope in the 1600s enabled researchers to see cells for the first time.

- ▶ Robert Hooke named the empty chambers he observed in cork “cells.”
- ▶ Anton van Leeuwenhoek was the first to observe living microorganisms.
- ▶ Cells are the basic units of life.
- ▶ Discoveries by German scientists Schleiden, Schwann, and Virchow led to the development of the **cell theory**, which states:
 - All living things are made of cells.
 - Cells are the basic units of structure and function in living things.
 - New cells are produced from existing cells.

Exploring the Cell Scientists use light microscopes and electron microscopes to explore the structure of cells.

- ▶ Compound light microscopes have lenses that focus light. They magnify objects by up to 1000 times. Chemical stains and fluorescent dyes make cell structures easier to see.
- ▶ Electron microscopes use beams of electrons focused by magnetic fields. They offer much higher resolution than light microscopes. There are two main types of electron microscopes—transmission and scanning. Scientists use computers to add color to electron micrographs, which are photos of objects seen through a microscope.

Prokaryotes and Eukaryotes Cells come in an amazing variety of shapes and sizes, but all cells contain DNA. Also, all cells are surrounded by a thin flexible barrier called a **cell membrane**. There are two basic categories of cells based on whether they contain a nucleus. The **nucleus** (plural: nuclei) is a large membrane-enclosed structure that contains DNA.

- ▶ **Eukaryotes** are cells that enclose their DNA in nuclei.
- ▶ **Prokaryotes** are cells that do not enclose their DNA in nuclei.

The Discovery of the Cell

For Questions 1–6, complete each statement by writing the correct word or words.

1. The invention of the _____ made the discovery of cells possible.
2. Robert Hooke used the name _____ to refer to the tiny empty chambers he saw when he observed magnified cork.

Chapter 7 1 Life Is Cellular Answer Key

Lingjun Ying



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