

LAB EXERCISE 4

Cell Anatomy

The cell is often considered the basic unit of living organisms. Actually, cells are only one of several levels of organization in the human organism:

ATOMS
MOLECULES
ORGANELLES
CELLS
TISSUES
ORGANS
ORGAN SYSTEMS
ORGANISM

Thus, cells are parts of larger units (tissues and organs) and are composed of smaller units (organelles).

For now, we will concentrate on the structure and function of the cell and its organelles. We will study some of the other levels of organization in later units.

BEFORE YOU BEGIN

- ☐ Read the appropriate chapter in your textbook.
- ☐ Set your learning goals. When you finish this exercise, you should be able to:
 - ☐ place the cell and its organelles within the scheme of organizational levels
 - ☐ identify the major organelles on a model, chart, specimen, or micrograph
 - ☐ describe primary function(s) of typical organelles
 - ☐ discuss the anatomical relationship among various cell parts
- ☐ Prepare your materials:
 - ☐ cell model or chart
 - ☐ compound light microscope
 - ☐ clean slides
 - ☐ coverlips
 - ☐ paper wipes
 - ☐ methylene blue stain
 - ☐ colored pencils or pens
 - ☐ prepared slides (instructor's option)
- ☐ Read the directions and safety tips for this exercise carefully before starting any procedure.

Study TIPS

When studying the structure and function of the cell, it might be helpful to make an analogy between a cell and a factory. Factories have various departments that work together to manufacture a specific product(s). Cells have specialized departments (organelles) that also work together. For instance, the cell's nucleus can be compared to the factory headquarters; the endoplasmic reticulum to the warehouse; Golgi apparatus to the distribution center; mitochondria to the power plant; and so on. Try to develop other examples using additional cell organelles. Refer to the ASP Guide. The Internet has many cell tutorials. For example, www.cellalive.com contains an array of interactive links that provide an excellent cell biology resource.

A. PARTS OF THE CELL

Cells are microscopic units composed of a bubble of lumpy material filled with a water-based mixture of molecules and tiny particles. Parts of the cell are called **organelles** (meaning "small organs"). Begin your study of the cell by examining a generalized cell, such as that in the coloring exercise in Figure 4-1. A generalized cell is one with many cell features that are not all found in a single natural cell. Locate each of the listed organelles on a generalized cell model or chart.

- ☐ 1 The outer boundary of the cell is the **plasma membrane**. It is composed of a double layer (or *bilayer*) of phospholipid molecules interbedded with other molecules. Each phospholipid molecule has a polar, hydrophilic ("water-loving") head made up of phosphate and glycerol, and a nonpolar, hydrophobic ("water-fearing") tail made up of two fatty acid chains. Imbedded in the membrane are **integral proteins**, which may have additional protein molecules called **peripheral proteins** attached to them on one side of the membrane or the other. Figure 4-2 shows some of the types of molecules often associated with the plasma membrane. The plasma membrane has many functions, most involving transport and communication between the inside and outside of the cell.

Answers For Lab Exercise 4 Cell Anatomy

JE Gale



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