

# 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](http://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

**Tobias Bleicker**



## **Answers For Lab Exercise 4 Cell Anatomy:**

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*Anatomy & Physiology Laboratory Manual and E-Labs E-Book* Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual's usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework

for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors

**Exploring Biology in the Laboratory: Core Concepts** Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

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- 3 The book also enables lecturers and students to work entirely from pre teaching whilst activity and post activity Through this book lecturers and students are expected to have insightful teaching and learning process

Laboratory Manual for Human Biology Bert Atsma,Sandra Hsu,2002 A variety of approximately 30 lab activities to complete any human biology course

**Anatomy & Physiology Laboratory Manual** Kevin T. Patton,2007 It s an ideal companion for Thibodeau and Patton s Anatomy and Physiology Sixth Edition as well as any standard anatomy and physiology textbook

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**Scientific and Technical Books and Serials in Print** ,1984      **Human Anatomy and Physiology Laboratory Manual** Elaine Nicpon Marieb,1985

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