

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

Murray P. Pendarvis, John L. Crawley



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Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart Exploring Anatomy Physiology in the Laboratory 3e **Anatomy and Physiology, Laboratory Manual** Connie Allen, Valerie Harper, 2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course

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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

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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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Anatomy and Physiology Connie Allen, Valerie Harper, 2016-12-21 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it's easy to customize this laboratory manual to best fit your course

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Table of Contents Answers For Lab Exercise 4 Cell Anatomy

1. Understanding the eBook Answers For Lab Exercise 4 Cell Anatomy
 - The Rise of Digital Reading Answers For Lab Exercise 4 Cell Anatomy
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Lab Exercise 4 Cell Anatomy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Lab Exercise 4 Cell Anatomy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Lab Exercise 4 Cell Anatomy
 - Personalized Recommendations

- Answers For Lab Exercise 4 Cell Anatomy User Reviews and Ratings
- Answers For Lab Exercise 4 Cell Anatomy and Bestseller Lists
- 5. Accessing Answers For Lab Exercise 4 Cell Anatomy Free and Paid eBooks
 - Answers For Lab Exercise 4 Cell Anatomy Public Domain eBooks
 - Answers For Lab Exercise 4 Cell Anatomy eBook Subscription Services
 - Answers For Lab Exercise 4 Cell Anatomy Budget-Friendly Options
- 6. Navigating Answers For Lab Exercise 4 Cell Anatomy eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Lab Exercise 4 Cell Anatomy Compatibility with Devices
 - Answers For Lab Exercise 4 Cell Anatomy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Lab Exercise 4 Cell Anatomy
 - Highlighting and Note-Taking Answers For Lab Exercise 4 Cell Anatomy
 - Interactive Elements Answers For Lab Exercise 4 Cell Anatomy
- 8. Staying Engaged with Answers For Lab Exercise 4 Cell Anatomy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Lab Exercise 4 Cell Anatomy
- 9. Balancing eBooks and Physical Books Answers For Lab Exercise 4 Cell Anatomy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Lab Exercise 4 Cell Anatomy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Lab Exercise 4 Cell Anatomy
 - Setting Reading Goals Answers For Lab Exercise 4 Cell Anatomy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Lab Exercise 4 Cell Anatomy
 - Fact-Checking eBook Content of Answers For Lab Exercise 4 Cell Anatomy

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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