

# 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

**Connie Allen, Valerie Harper**



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

*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

**Laboratory Manual for Anatomy and Physiology** Connie Allen, Valerie Harper, 2020-12-10 Laboratory Manual for Anatomy Physiology 7th 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 While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of *Principles of Anatomy Physiology* it can be used with any two semester A P text **Clinical Anatomy and Physiology Laboratory Manual for Veterinary Technicians** Thomas P. Colville, Joanna M. Bassert, 2009-01-01 Reinforce the A P principles you ve learned in *Clinical Anatomy Physiology for Veterinary Technicians 2nd Edition* with this practical laboratory resource Filled with interactive exercises step by step procedure guidelines and full color photos and illustrations this lab manual is designed to help you understand A P in relation to your clinical responsibilities as a veterinary technician and apply your knowledge in the laboratory setting A comprehensive approach builds on the concepts presented in *Clinical Anatomy Physiology for Veterinary Technicians 2nd Edition* to strengthen your anatomical and physiological knowledge of all major species Engaging clinically oriented activities help you establish proficiency in radiographic identification microscopy and other essential skills Step by step dissection guides familiarize you with the dissection process and ensure clinical accuracy Clinical Application boxes demonstrate the clinical relevance of anatomical and physiological principles and reinforce your understanding Full color photographs and illustrations clarify structure and function A renowned author team lends practical guidance specifically designed for veterinary technicians A detailed glossary provides quick access to hundreds of key terms and definitions

**Part - Anatomy & Physiology Laboratory Manual - E-Book** Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the *Anatomy Physiology*

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**Laboratory Manual for Anatomy and Physiology** Patricia J. Donnelly, George A. Wistreich, 1993

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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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## **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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