

Organ Systems Overview

Learning Outcomes

- ▶ Name the human organ systems, and indicate the major functions of each.
- ▶ List several major organs of each system, and identify them in a dissected rat, human cadaver or cadaver image, or a dissectible human torso model.
- ▶ Name the correct organ system for each organ when presented with a list of organs.

Pre-Lab Quiz



Instructors may assign these and other Pre-Lab Quiz questions using **Mastering A&P™**

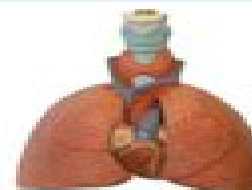
1. Name the structural and functional unit of all living things.
2. The small intestine is an example of a(n) _____ because it is composed of two or more tissue types that perform a particular function for the body.
 - a. epithelial tissue
 - b. muscular tissue
 - c. organ
 - d. organ system
3. The _____ system is responsible for maintaining homeostasis of the body via rapid transmission of electrical signals.
4. The kidneys are part of the _____ system.
5. The thin muscle that separates the thoracic and abdominal cavities is the _____.

The basic unit of life is the **cell**. Cells fall into four different categories according to their structures and functions. These categories correspond to the four primary tissue types: epithelial, muscular, nervous, and connective. A **tissue** is a group of cells that are similar in structure and function. An **organ** is a structure composed of two or more tissue types that performs a specific function for the body.

An **organ system** is a group of organs that act together to perform a particular body function. For example, the organs of the digestive system work together to break down foods and absorb the end products into the bloodstream in order to provide nutrients and fuel for all the body's cells. In all, there are 11 organ systems, described in **Table 1**.

Read through this summary of the body's organ systems (**Table 1**) before beginning your rat dissection or examination of the predissected human cadaver. If a human cadaver is not available, Figures 3 to 6 will serve as a partial replacement.

Go to **Mastering A&P™** > Study Area to improve your performance in A&P Lab.



> Lab Tools > Practice Anatomy Lab > Anatomical Models



Instructors may assign new Building Vocabulary coaching activities, Pre-Lab Quiz questions, Art Labeling activities, Practice Anatomy Lab Practical questions (PAL), and more using the **Mastering A&P™** Item Library.

Materials

- ▶ Freshly killed or preserved rat (predissected by instructor as a demonstration or for student dissection [one rat for every two to four students]) or predissected human cadaver
- ▶ Dissection trays
- ▶ Twine or large dissecting pins
- ▶ Scissors
- ▶ Probes
- ▶ Forceps
- ▶ Disposable gloves
- ▶ Human torso model (dissectible)

Organ Systems Overview Lab Manual

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Organ Systems Overview Lab Manual:

This book delves into Organ Systems Overview Lab Manual. Organ Systems Overview Lab Manual is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Organ Systems Overview Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Organ Systems Overview Lab Manual
 - Chapter 2: Essential Elements of Organ Systems Overview Lab Manual
 - Chapter 3: Organ Systems Overview Lab Manual in Everyday Life
 - Chapter 4: Organ Systems Overview Lab Manual in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Organ Systems Overview Lab Manual. This chapter will explore what Organ Systems Overview Lab Manual is, why Organ Systems Overview Lab Manual is vital, and how to effectively learn about Organ Systems Overview Lab Manual.
 3. In chapter 2, this book will delve into the foundational concepts of Organ Systems Overview Lab Manual. The second chapter will elucidate the essential principles that need to be understood to grasp Organ Systems Overview Lab Manual in its entirety.
 4. In chapter 3, this book will examine the practical applications of Organ Systems Overview Lab Manual in daily life. This chapter will showcase real-world examples of how Organ Systems Overview Lab Manual can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Organ Systems Overview Lab Manual in specific contexts. The fourth chapter will explore how Organ Systems Overview Lab Manual is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Organ Systems Overview Lab Manual. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Organ Systems Overview Lab Manual.

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Table of Contents Organ Systems Overview Lab Manual

1. Understanding the eBook Organ Systems Overview Lab Manual
 - The Rise of Digital Reading Organ Systems Overview Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Organ Systems Overview Lab Manual
 - 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 Organ Systems Overview Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organ Systems Overview Lab Manual
 - Personalized Recommendations
 - Organ Systems Overview Lab Manual User Reviews and Ratings
 - Organ Systems Overview Lab Manual and Bestseller Lists
5. Accessing Organ Systems Overview Lab Manual Free and Paid eBooks
 - Organ Systems Overview Lab Manual Public Domain eBooks
 - Organ Systems Overview Lab Manual eBook Subscription Services
 - Organ Systems Overview Lab Manual Budget-Friendly Options
6. Navigating Organ Systems Overview Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Organ Systems Overview Lab Manual Compatibility with Devices
 - Organ Systems Overview Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Organ Systems Overview Lab Manual
 - Highlighting and Note-Taking Organ Systems Overview Lab Manual
 - Interactive Elements Organ Systems Overview Lab Manual

8. Staying Engaged with Organ Systems Overview Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organ Systems Overview Lab Manual
9. Balancing eBooks and Physical Books Organ Systems Overview Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organ Systems Overview Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Organ Systems Overview Lab Manual
 - Setting Reading Goals Organ Systems Overview Lab Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Organ Systems Overview Lab Manual
 - Fact-Checking eBook Content of Organ Systems Overview Lab Manual
 - 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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