

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its internal organs

Physiology

The study of the function of the human body and its internal organs

Structural levels

Studying the human body at the cellular, tissue, organ, and system levels

- 1. **Chemical level** - study of the chemical composition of the body
- 2. **Cellular level** - study of the structure and function of cells
- 3. **Tissue level** - study of the structure and function of tissues
- 4. **Organ level** - study of the structure and function of organs
- 5. **System level** - study of the structure and function of systems
- 6. **Whole body level** - study of the structure and function of the whole body

CELLS AND TISSUES

Cells are the basic units of structure and function of the body



Characteristics of cells

All cells are eukaryotic and have a nucleus

Cells are specialized for their function

Cells are surrounded by a cell membrane

Cells are connected to each other

Cells are constantly changing



The **epithelium** is the outermost layer of cells that covers the body

Epithelial cells are specialized for their function

Epithelial cells are connected to each other

Epithelial cells are constantly changing

Epithelial cells are surrounded by a cell membrane

ORGANS

Organs are specialized for their function

Organs are made up of different types of cells

Organs are connected to each other

Organs are constantly changing

Organs are surrounded by a cell membrane

Systemic level

Systemic level is the study of the function of the whole body

Systemic level is the study of the function of the whole body

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Organic level

Organic level is the study of the function of the whole body

ORGANISMS

Organisms are specialized for their function

Organisms are made up of different types of cells

Organisms are connected to each other

Organisms are constantly changing

Organisms are surrounded by a cell membrane



Organic level

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NERVOUS SYSTEM

Neurons

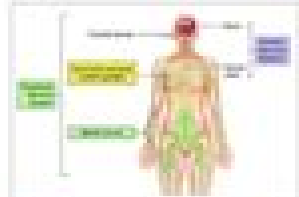
Neurons are specialized for their function

Neurons are made up of different types of cells

Neurons are connected to each other

Neurons are constantly changing

Neurons are surrounded by a cell membrane



Neurons

Neurons are specialized for their function

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CELLS OF NEURONS

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Neurons are connected to each other

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Neurons are surrounded by a cell membrane



Types of neurons

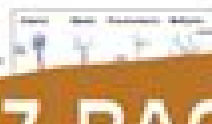
Neurons are specialized for their function

Neurons are made up of different types of cells

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Neurons are constantly changing

Neurons are surrounded by a cell membrane



ORGAN SYSTEMS OF THE BODY

Organ systems are specialized for their function

Organ systems are made up of different types of cells

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Anatomy 1 Study Guide

O García



Anatomy 1 Study Guide:

The book delves into Anatomy 1 Study Guide. Anatomy 1 Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Anatomy 1 Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Anatomy 1 Study Guide
- Chapter 2: Essential Elements of Anatomy 1 Study Guide
- Chapter 3: Anatomy 1 Study Guide in Everyday Life
- Chapter 4: Anatomy 1 Study Guide in Specific Contexts
- Chapter 5: Conclusion

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