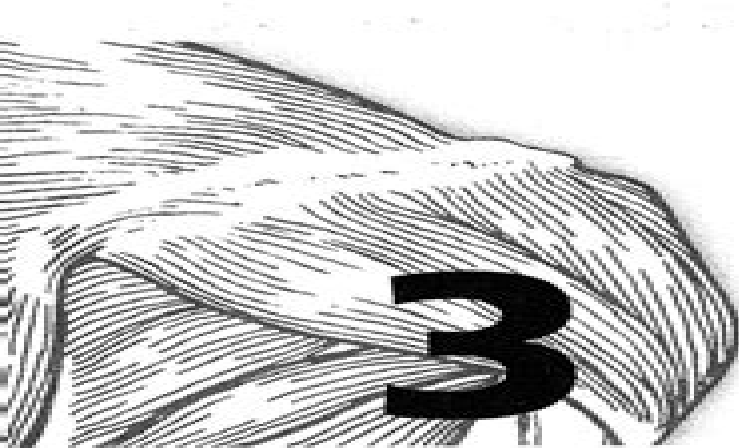




CELLS AND TISSUES

The basic unit of structure and function in the human body is the cell. Each of a cell's parts, or organelles, as well as the entire cell, is organized to perform a specific function. Cells have the ability to metabolize, grow and reproduce, move, and respond to stimuli. The cells of the body differ in shape, size, and in specific roles in the body. Cells that are similar in structure and function form tissues, which, in turn, construct the various body organs.

Student activities in this chapter include questions relating to the structure and function of the generalized animal cell and to the general arrangement of tissues and their contribution to the activities of the various body organs.

CELLS

Overview

1. Answer the following questions by inserting your responses in the answer blanks.

- | | | |
|---------------------|-----|---|
| <u>Hydrogen</u> | 1. | 1-4. Name the four elements that make up the bulk of living matter. |
| <u>Carbon</u> | 2. | |
| <u>Oxygen</u> | 3. | 5. Name the single most abundant material or substance in living matter. |
| <u>Nitrogen</u> | 4. | 6. Name the trace element most important for making bones hard. |
| <u>Oxygen</u> | 5. | 7. Name the element, found in small amounts in the body, that is needed to make hemoglobin for oxygen transport. |
| <u>Calcium</u> | 6. | |
| <u>Iron</u> | 7. | 8-12. Although there are many specific "jobs" that certain cells are able to do, name five functions common to all cells. |
| <u>Reproduction</u> | 8. | <u>Growth</u> 11. |
| <u>Metabolism</u> | 9. | <u>Responds to Stimuli</u> 12. → |
| <u>Excretion</u> | 10. | |

Anatomy And Physiology Coloring Workbook Answers

Chapter 3 Cells And Tissues

Kalyani Premkumar



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The Massage Connection Kalyani Premkumar, 2004 This textbook is focused on the anatomy and physiology needs of massage therapy students and practitioners It gives extensive coverage of the major body systems integumentary skeletal muscular and nervous crucial for massage therapy It also provides an overview of other body systems so students have a well rounded understanding of anatomy and physiology Midwest

Human Anatomy & Physiology Coloring Workbook Paul D. Anderson, 2008-04-25 This valuable student resource is intended for use in the undergraduate human anatomy and physiology class The latest edition of Human Anatomy and Physiology Coloring Workbook is designed to help students learn introductory anatomy and physiology and is organized to complement the leading texts in the field Virtually every structure of the human body typically studied in an introductory course is examined Chapters are short concise and complete enabling the student to master smaller sections of information in a cohesive manner 2009 292 pages *Anatomy Coloring Workbook*

I. Edward Alcamo, 2003 Designed to help students gain a clear and concise understanding of anatomy this interactive approach is far more efficient than the textbook alternatives Students as well as numerous other professionals have found the workbook to be a helpful way to learn and remember the anatomy of the human body

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and Fitness and Career Choices provide interesting and important sidebars to the main content Quick Check Questions reinforce learning by prompting you to review what you've just read Chapter outlines chapter objectives and study tips begin each chapter NEW Integrative Unit Closers ties together content with integrative critical thinking questions NEW Additional and updated Connect It boxes renamed from A P Connect provide relevant bonus information for you to explore NEW All new animations in the text and on Evolve companion site help you understand the reasoning and knowledge behind each answer and assist with recalling correct answers

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