

CHAPTER 4

The Muscular System

Coloring Exercise 4-1 > Muscle Tissue and Skeletal Muscle Anatomy

- **Smooth muscle** (A): walls of hollow organs, blood vessels, and respiratory passages
- **Cardiac muscle** (B): wall of heart (see Coloring Exercise 8-6)
- **Skeletal muscle** (C) makes up muscles under voluntary control; moves bones and face, compresses abdominal organs
 - Several muscle cell precursors fuse to form a single muscle cell, containing multiple nuclei
- Muscle cells are also called fibers

Skeletal Muscle: Attachments to Bones

- **Tendons** (D) attach skeletal muscle body (E) to bones
- **Origin** (F): attachment to less moveable bone (e.g., **scapula** (G))
- **Insertion** (H): attachment to more moveable bone (e.g., **radius** (I))

- Muscle enveloped by a membrane, the **epimysium** (J)
 - The **tendon** (D) is a continuation of the epimysium
- Skeletal muscle body divided into **fascicles** (K)
 - **Blood vessels** (L) travel between fascicles
 - Each muscle cell surrounded by **endomysium** (N) membrane
- Remember, you already colored a longitudinal view of skeletal muscle fibers in the top figure

2 COLORING INSTRUCTIONS

Color each structure and its name at the same time, using the same color. On the top figure:

1. Color the nuclei black in each figure.
2. Color the muscle cells for each muscle type (C) to (J).

2 COLORING INSTRUCTIONS

On the middle figure:

1. Color the bones (G), (I), tendon (D), and the muscle body (E). Use light colors for the bones (G), (I) and the muscle body.
2. Using two dark colors, draw circles at the origins (F) and insertion (H) of the muscle.

2 COLORING INSTRUCTIONS

On the bottom figure:

1. Color the bone (I), tendon (D), and epimysium (J).
2. Color the perimysium (K) around the extruded fascicle and in the cross section.
3. Color the fascicle (K) that is labeled in the cross section, and one additional fascicle.
4. Color the endomysium (N) around the extruded muscle fiber. Outline some muscle fibers in the cross-section with the same color, because the endomysium surrounds all fibers.
5. Color the ends of some muscle fibers (C) and the blood vessels (L).

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K Payea



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Table of Contents Lwbk244 4102g C04 48 69 Qxd Answers

1. Understanding the eBook Lwbk244 4102g C04 48 69 Qxd Answers
 - The Rise of Digital Reading Lwbk244 4102g C04 48 69 Qxd Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Lwbk244 4102g C04 48 69 Qxd Answers
 - 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 Lwbk244 4102g C04 48 69 Qxd Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lwbk244 4102g C04 48 69 Qxd Answers
 - Personalized Recommendations
 - Lwbk244 4102g C04 48 69 Qxd Answers User Reviews and Ratings
 - Lwbk244 4102g C04 48 69 Qxd Answers and Bestseller Lists
5. Accessing Lwbk244 4102g C04 48 69 Qxd Answers Free and Paid eBooks
 - Lwbk244 4102g C04 48 69 Qxd Answers Public Domain eBooks
 - Lwbk244 4102g C04 48 69 Qxd Answers eBook Subscription Services
 - Lwbk244 4102g C04 48 69 Qxd Answers Budget-Friendly Options

6. Navigating Lwbk244 4102g C04 48 69 Qxd Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Lwbk244 4102g C04 48 69 Qxd Answers Compatibility with Devices
 - Lwbk244 4102g C04 48 69 Qxd Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lwbk244 4102g C04 48 69 Qxd Answers
 - Highlighting and Note-Taking Lwbk244 4102g C04 48 69 Qxd Answers
 - Interactive Elements Lwbk244 4102g C04 48 69 Qxd Answers
8. Staying Engaged with Lwbk244 4102g C04 48 69 Qxd Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lwbk244 4102g C04 48 69 Qxd Answers
9. Balancing eBooks and Physical Books Lwbk244 4102g C04 48 69 Qxd Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lwbk244 4102g C04 48 69 Qxd Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lwbk244 4102g C04 48 69 Qxd Answers
 - Setting Reading Goals Lwbk244 4102g C04 48 69 Qxd Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lwbk244 4102g C04 48 69 Qxd Answers
 - Fact-Checking eBook Content of Lwbk244 4102g C04 48 69 Qxd Answers
 - 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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