

## CHAPTER 4

## The Muscular System

## Coloring Exercise 4-1 &gt; 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

## 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).

## 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.

## 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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