

## 1. Types of Muscle Tissues

Match the types of muscle tissues with the words and phrases.

1) Skeletal      2) Smooth      3) Cardiac

1.      Striated

2.      Single nucleus

3.      Involuntary

4.      Intercalated disks

5.      Branching network

6.      Walls of blood vessels

7.      Heart muscle

8.      Walls of digestive tract

9.      Skeletal muscles

10.      Easily fatigued

## 2. Structure of Skeletal Muscle

Write the terms that match the statements in the spaces at the right.

- 1) A bundle of fibers enveloped by connective tissue.
- 2) Binds all fasciculi together.
- 3) Connective tissue covering entire muscle.
- 4) Cordlike attachment of a muscle.
- 5) Sheetlike attachment of a muscle.
- 6) Plasma membrane of muscle cell.
- 7) Cytoplasm of a muscle cell.
- 8) Threadlike contractile elements.
- 9) Thinner protein filaments in myofibrils.
- 10) Thicker protein filaments in myofibrils.
- 11) Portion of a myofibril between Z lines.
- 12) Light and dark bands on myofibrils.
- 13) Attachment of motor axons to sarcolemma.
- 14) Depression in sarcolemma receiving axon tip.
- 15) Motor neuron and its attached muscle fibers.

Fasciculus \_\_\_\_\_  
 Fibrous connective tissue \_\_\_\_\_  
 Deep fascia \_\_\_\_\_  
 Tendon \_\_\_\_\_  
 Aponeurosis \_\_\_\_\_  
 Sarcolemma \_\_\_\_\_  
 Sarcoplasm \_\_\_\_\_  
 Myofibrils \_\_\_\_\_  
 Actin \_\_\_\_\_  
 Myosin \_\_\_\_\_  
 Sarcomere \_\_\_\_\_  
 Striations \_\_\_\_\_  
 Neuromuscular junction \_\_\_\_\_  
 Synaptic cleft \_\_\_\_\_  
 Motor unit \_\_\_\_\_

## 3. Physiology of Muscle Contraction

a. Write the words that complete the sentences in the spaces at the right.

The point tip of an activated motor neuron releases \_\_\_\_\_ 1 \_\_\_\_\_ into the \_\_\_\_\_ 2 \_\_\_\_\_, where it combines with \_\_\_\_\_ 3 \_\_\_\_\_ on the sarcolemma. This stimulates the release of \_\_\_\_\_ 4 \_\_\_\_\_ from storage areas, which exposes the active sites on \_\_\_\_\_ 5 \_\_\_\_\_ filaments. Cross bridges of \_\_\_\_\_ 6 \_\_\_\_\_ attach to the exposed active sites and exert a power stroke, which pulls the \_\_\_\_\_ 7 \_\_\_\_\_ filaments and the Z lines toward the center of the A band. This process is rapidly repeated until \_\_\_\_\_ 8 \_\_\_\_\_ is complete.

1) Acetylcholine \_\_\_\_\_  
 2) Synaptic cleft \_\_\_\_\_  
 3) Receptors \_\_\_\_\_  
 4) Calcium ions \_\_\_\_\_  
 5) Actin \_\_\_\_\_  
 6) Myosin \_\_\_\_\_  
 7) Actin \_\_\_\_\_  
 8) Contraction \_\_\_\_\_

# Faculty Scf Edu Study Guide Chapter 6

**David Baud**



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