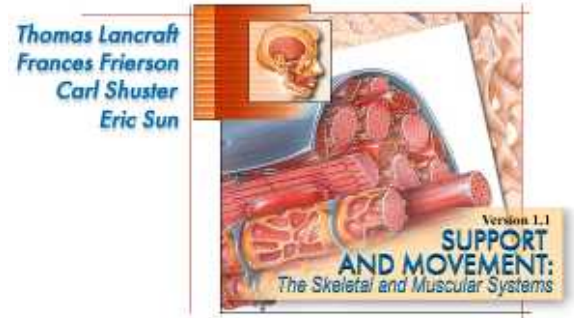


Muscular System: Overview

Directions:

- Click the "Contents" button,
- Open the *Muscular System* File,
- Click *Anatomy Overviews*,
- Click *Muscular System: Overview*



- Click the Skeletal Muscle Cross Section and identify each of the following. Consult your textbook for a description of each.?

Epimysium _____

Muscle Cell _____

Perimysium _____

Myofibril _____

Filament _____

Sarcolemma _____

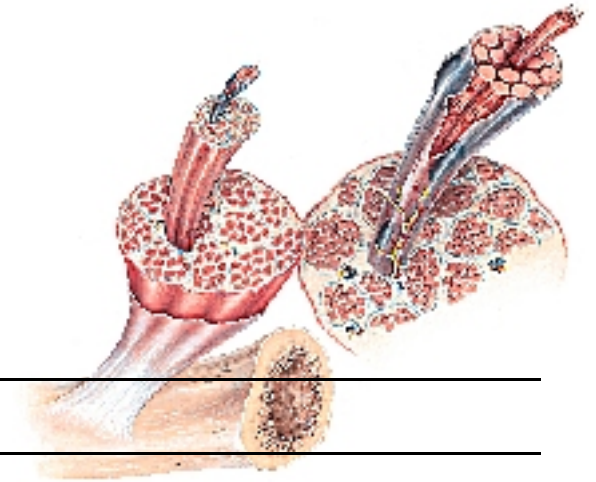
Endomysium _____

Fascicle _____

Tendon _____

Bone (radius) _____

Periosteum _____



- Click on the Skeletal Muscle Cell. *Muscle fibers* contain bundles of *myofibrils*. Myofibrils are composed of smaller *filaments*.

Identify each of these structures in the diagram.

Muscle fiber

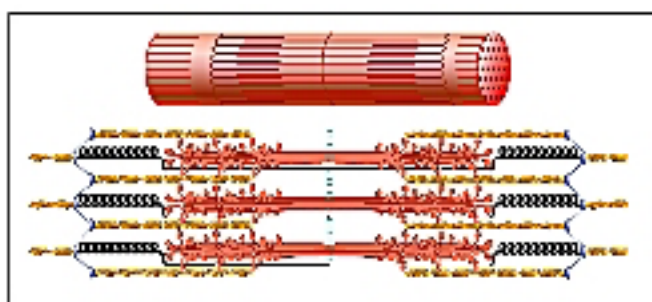
Myofibrils

Sarcomere

Sarcolemma

Sarcoplasm

T (transverse) tubules



Actin Filaments

Myosin Filaments

Titan Filaments

Terminal cisterns of SR

Mitochondria

Sarcoplasmic Reticulum (SR)

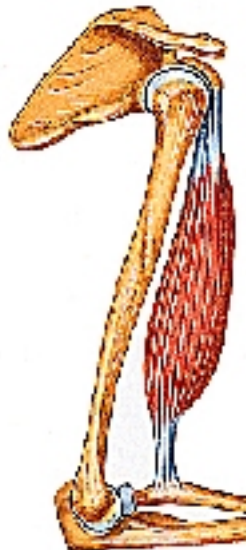
3. Describe what happens when a sarcomere shortens. _____

4. Describe each of the following:

Origin _____

Insertion _____

5. Identify each of the following:



Origins of biceps brachii

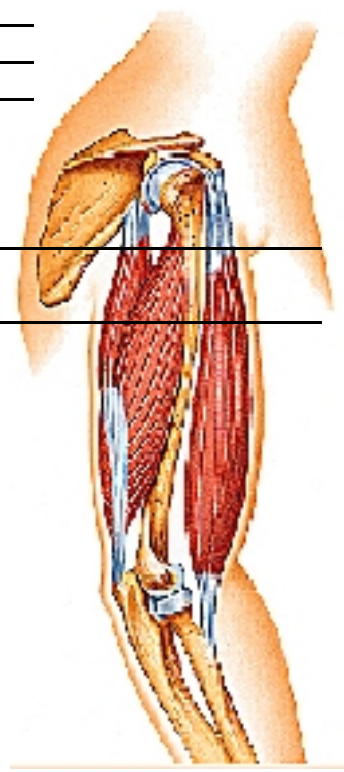
Tendons

Belly of biceps brachii

Elbow joints

Radius

Ulna



6. Describe the following skeletal muscle functions

- Movement _____
- Stabilization _____
- Heat production _____