

The Muscle System

Muscle Cells and Muscle Contraction Web Activity

As this activity goes, you will explore both the structure and function of skeletal (voluntary) and smooth muscles. Skeletal muscles work by pulling on bones. So make to pull on the bones the muscle needs to pull. This is a characteristic of muscles to pull and contract. This paragraph describes the first contraction is called the sliding filament theory. Muscle cells have myofibrils or bundles of fibers and muscle actin molecules and filaments called myofibrils. The filaments are called actin filaments and myofibrils. There are 2 main proteins filaments you need to know. Actin is the protein that contracts the thin filaments while myosin is the protein that contracts the thick filaments. Molecular proteins found in the myofibrils include troponin, titin, myosin, and Z-disc.

As you read the sections on the structure and function of skeletal muscle, a myofibril is shown. The myofibril is shown as a series of repeating units called sarcomeres.

When the judge started, there will be a short interval where the sarcomeres of the sarcomeres. Move on the next slide by clicking the button on the screen right across the sarcomeres to the sarcomeres to see what happens. repeat until you is complete review of progress.



1. What are myofibrils and how long are they?
Myofibrils are bundles of myosin and actin filaments that contract muscle. Myofibrils are found in skeletal muscle. They are 1-2 micrometers long.
2. What are the sarcomeres and what are they?
The sarcomere is the basic unit of muscle.
3. What is the sarcomere?
The sarcomere is the basic unit of muscle. It is the distance between two Z-discs.
4. What are the sarcomeres and what are they?
Sarcomeres are the basic unit of muscle. They are found in skeletal muscle and are made up of myosin and actin filaments. They are 1-2 micrometers long.
5. How are the sarcomeres organized for contraction?
The sarcomeres are organized in a repeating pattern. The myosin filaments are in the center and the actin filaments are on the sides. The myosin filaments are attached to the actin filaments by myosin heads. The myosin heads pull on the actin filaments, causing the sarcomere to contract.
6. What is the sarcomere and what are its parts?
The sarcomere is the basic unit of muscle. It is the distance between two Z-discs. The parts of the sarcomere are the myosin filaments, the actin filaments, the myosin heads, and the Z-discs.

Muscle Contraction Webquest Question Answers

Lei Shi



Muscle Contraction Webquest Question Answers:

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