

Muscle Contraction

Active transport: *Principles of Physiology* 10th Edition

Background

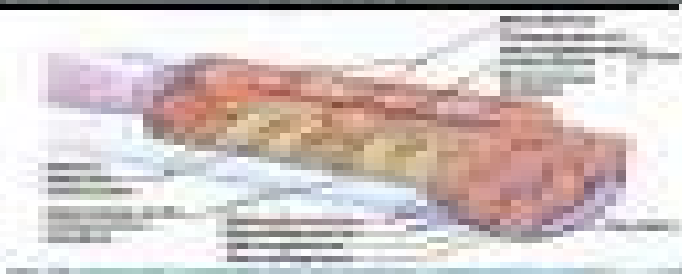
Muscle Cell Structure

Muscle cells are specialized to produce ATP and contract. Contractility is achieved as Ca^{2+} binds to troponin, allowing actin-myosin cross-bridges to form. The cell membrane contains proteins called ion channels, the openings to the cytoplasm, and the membrane potential is modified from the resting potential (RMP). Ca^{2+} enters from the extracellular interface, cytoplasm and ATP are used to transport Ca^{2+} out. The Ca^{2+} enters from the sarcoplasmic reticulum (SR) and is released into the cytoplasm. The SR contains Ca^{2+} and ATP are used to transport Ca^{2+} out. The SR contains Ca^{2+} and ATP are used to transport Ca^{2+} out. The SR contains Ca^{2+} and ATP are used to transport Ca^{2+} out.



Three major parts: Sarcomere, myofibril, myofiber. Sarcomere is the basic contractile unit. Myofibrils are bundles of sarcomeres. Myofibers are long, cylindrical cells. The cell membrane is called the sarcolemma. The sarcoplasmic reticulum (SR) is a network of membranes that store and release Ca^{2+} . The SR is made up of two main parts: endoplasmic reticulum.

Structure	Function
Myofibril	Contractile unit
Myofiber	Long, cylindrical cell
Sarcomere	Basic contractile unit
Sarcolemma	Cell membrane
Sarcoplasmic reticulum	Stores and releases Ca^{2+}
Mitochondrion	Produces ATP
Nucleus	Contains DNA
Sarcomere	Basic contractile unit
Myofibril	Contractile unit
Myofiber	Long, cylindrical cell
Sarcomere	Basic contractile unit
Sarcolemma	Cell membrane
Sarcoplasmic reticulum	Stores and releases Ca^{2+}
Mitochondrion	Produces ATP
Nucleus	Contains DNA



Muscle Contraction

A muscle contracts by the sliding filament theory and uses ATP according to the length of sarcomeres and the number of myofibrils. The following table describes the steps of a muscle contraction according to the sliding filament theory.

Step	Description	Diagram
1	The muscle is stimulated by an action potential that travels down the sarcolemma.	Diagram showing an action potential traveling along the sarcolemma.
2	The released Ca^{2+} binds to troponin, allowing actin-myosin cross-bridges to form. This causes the myofibrils to contract.	Diagram showing Ca^{2+} binding to troponin and the formation of actin-myosin cross-bridges.
3	The myofibrils contract through the sliding filament theory, pulling the Z-discs closer together.	Diagram showing the sliding filament theory and the contraction of the sarcomere.
4	The myofibrils contract through the sliding filament theory, pulling the Z-discs closer together. This causes the myofibrils to contract.	Diagram showing the contraction of the sarcomere and the resulting force.

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