

Muscle Microanatomy and Physiology Study Guide

1. **Be able to label the gross anatomy of a skeletal muscle with the following terms:** (p. 180, fig. 6.1)
 - a. Muscle fibers, fascicles, blood vessels, and tendons.
2. **Be able to label the microscopic anatomy of a skeletal muscle cell with the following terms:** (pgs. 182-184, fig. 6.3)
 - a. Muscle cell membrane (Sarcolemma), myofibril, dark band, light band, nuclei, z discs, thin actin filaments, thick myosin filaments, sarcomere
3. **Know the steps for muscle contraction and relaxation:**
 1. Nerve signal to muscle.
 2. Thick myosin filaments bind to thin actin filaments.
 3. Thick filaments use ATP to pull the thin filaments together, which shortens the muscles fibers' sarcomeres causing contraction.
 4. Nerve signal stops, thick and thin filaments no longer bind each other and can slide past each other – muscle relaxes.
4. **Be able to compare and contrast aerobic vs. anaerobic ATP production for muscle cells by knowing the following characteristics of each pathway:** (pgs. 189-191, fig. 6.10)
 - a. **Aerobic Energy Pathway** (also called Cellular Respiration)
 - How we provide energy (ATP) to our cells 99% of the time.
 - Fuels = glucose in muscle and liver (2-3hrs), fat stores (6-12hrs), and proteins (days-starvation)
 - Requires oxygen and mitochondria
 - Produces 36 ATP per glucose and produces CO₂ as waste
 - Produces ATP relatively slowly
 - b. **Anaerobic Energy Pathway** (also called Lactic Acid Fermentation)
 - High intensity, short duration muscle activity like sprinting.
 - Our muscles use this pathway to produce fast energy during "emergencies".
 - Fuel = glucose stored in muscle only (30-60sec)
 - Produces only 2 ATP per glucose and produces lactic acid as waste. Lactic acid is very irritating to our muscles.
 - But it produces ATP very quickly

Medical Microanatomy Study Guide 9232005 Final

Siddappa N.Byrareddy



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