



## PRE-LAB QUESTIONS

1. How do banding patterns change when a muscle contracts?
  - a. *When a muscle contracts, banding patterns change as the thick filaments are pulled toward the sarcomere's center. Myofilaments are not changing in size, but the actin is sliding past the myosin which changes the appearance of the band thickness*
2. What is the difference between a muscle organ, a muscle fiber, a myofibril, and a myofilament?
  - a. *A muscle organ is a complete muscle system with skeletal, smooth, and cardiac muscle, whereas a muscle fiber (or myocytes) is a muscle cell which is made of myofibrils, myofibril which are formed within muscle fibers made of actin (thin/light) and myosin (thick/dark), these myofibrils are organized into thick (dark) and thin (light) filaments which are named myofilaments*
3. Outline the molecular mechanism for skeletal muscle contraction. At what point is ATP used and why?
  - a. *For skeletal muscle contraction, ATP is used as chemical energy, converted to mechanical energy during a muscle contraction. First  $Ca^{2+}$  is released from sarcoplasmic reticulum, binding with troponin, causing a positional change in tropomyosin, causing a shift which exposes myosin binding sites on the actin, the ADP + P then attaches to the actin causing a cross-bridge, releasing ADP and P altering the myosin heads, creating a sliding motion causing actin to move to the center of the sarcomere. ATP binds to the myosin, hydrolyzing ATP into ADP and P returning energy to the myosin heads. This cycle ends when Ca is pumped back into the sarcoplasmic reticulum*
4. Explain why rigor mortis occurs.
  - a. *Rigor mortis occurs after a person expires. When a person dies, the process to recycle ATP stops as the person is no longer breathing (oxygen required to make ATP). The stored ATP is quickly depleted, meaning the myosin and actin remain linked, leaving the body contracted. Rigor mortis goes away as muscles start to decompose.*



# Escience Lab 7 Answers

**Thomas Griffiths**



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