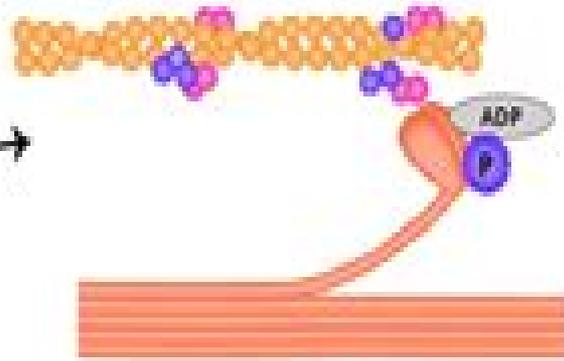
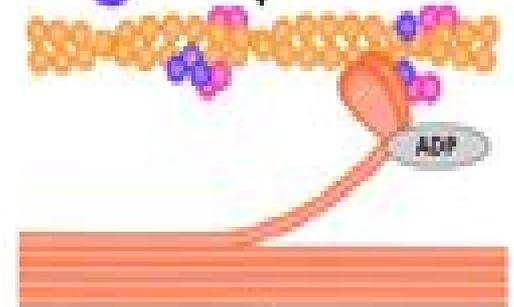


1 Myosin heads split ATP and become reoriented and energized



2 Myosin heads bind to actin, forming crossbridges

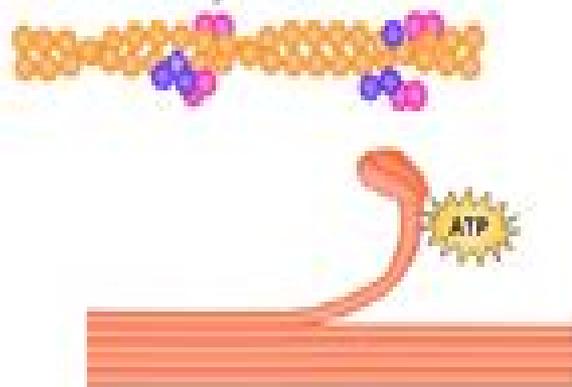
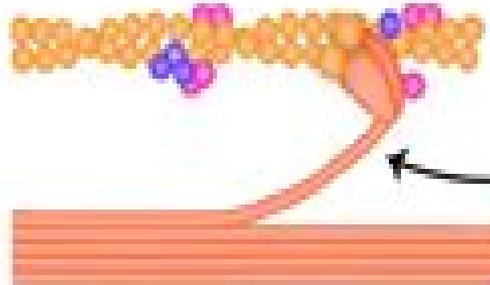


Contraction cycle continues if ATP is available and Ca^{2+} level in the sarcoplasm is high



3 myosin heads rotate toward center of the sarcomere (power stroke)

4 As myosin heads bind ATP, the crossbridges detach from actin



Contractile Mechanisms In Muscle

Lei Shi



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