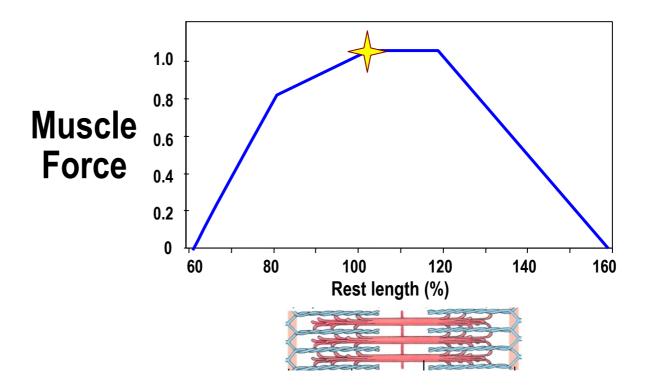
2 Fundamental Properties

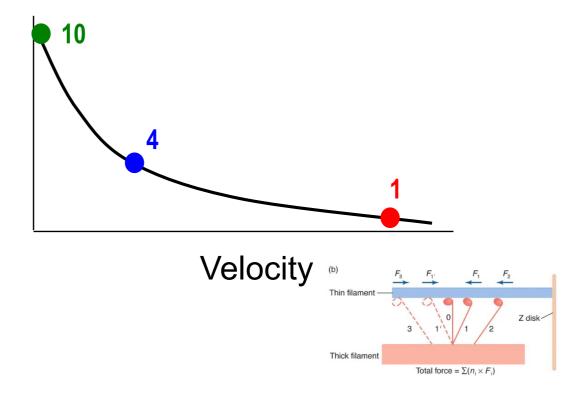
Skeletal Muscle

Length-Tension Curve muscle length-force output



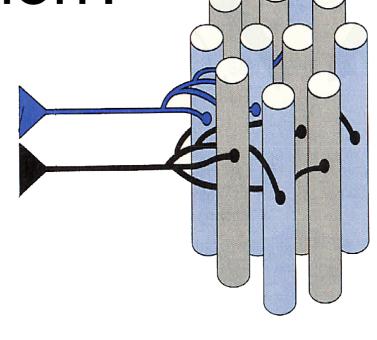
Force-Velocity Relationship force output-muscle velocity

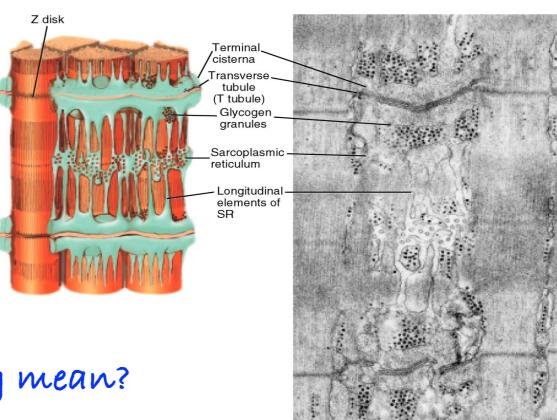
Muscle Force



How do you initiate a muscle contraction?

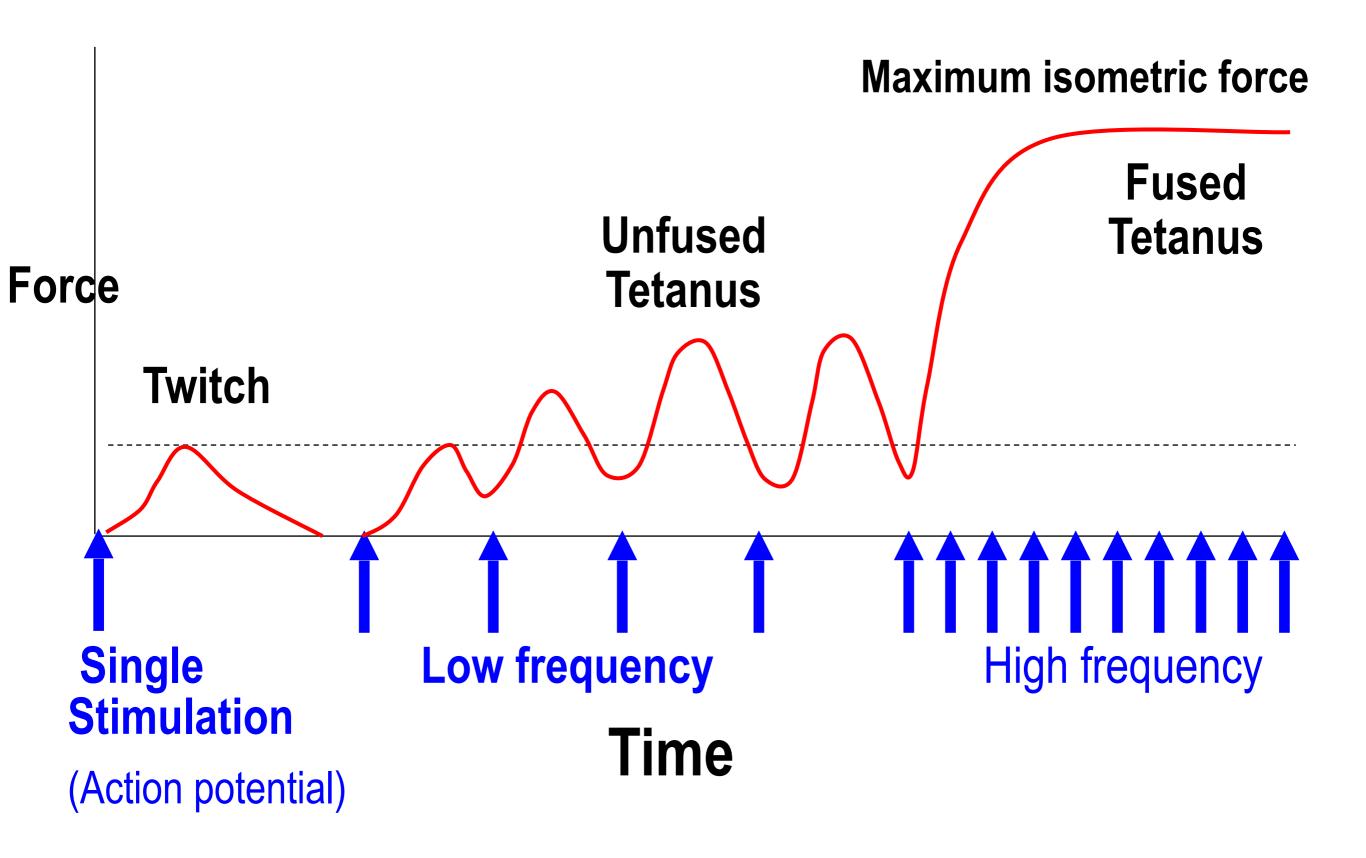
- Excitation Contraction Coupling
 - Muscles are activated by motor neurons.
 - Motorneurons, motorendplates & motor pool.
- Inward flow of depolarize depolarization conducted through too! transverse-tubule system (T tubules)





What does increasing muscle activity mean?

Activation & Summation



Lever Systems

Lets consider the load that can be supported by effort (Force in) from the biceps using the forearm (which is a lever system around the elbow joint):

