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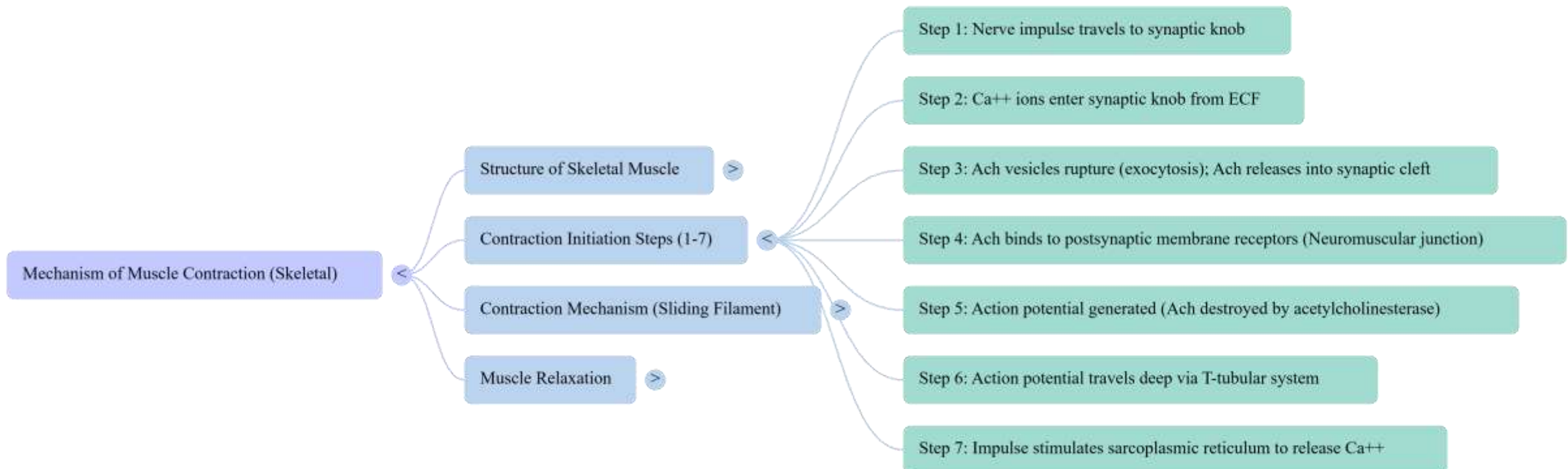
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi. Coimbatore -641035

COURSE NAME : HUMAN ANATOMY & PHYSIOLOGY (BP301 T)

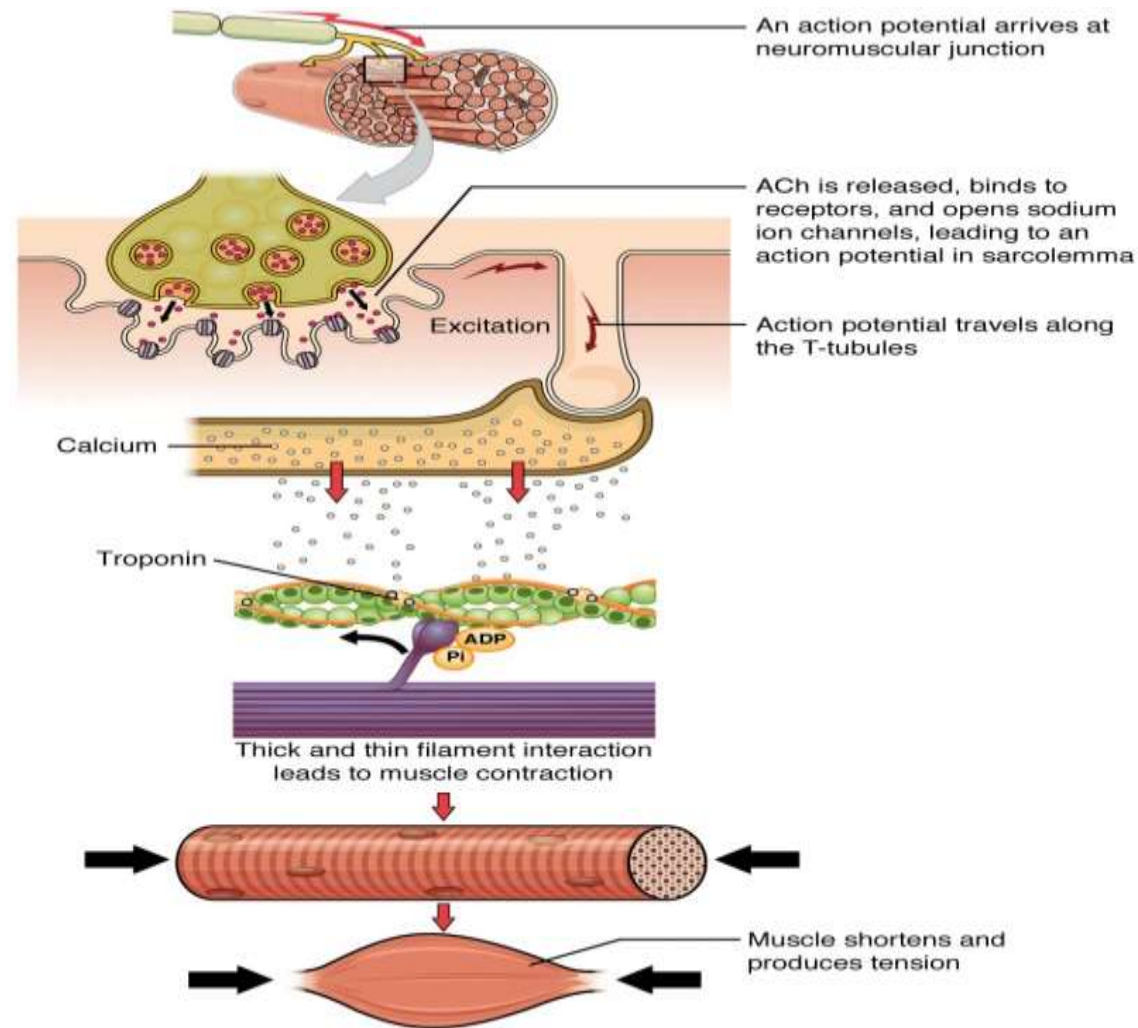
YEAR : I SEM/I YEAR

TOPIC : PHYSIOLOGY OF SKELETAL MUSCLE CONTRACTION

MIND MAP

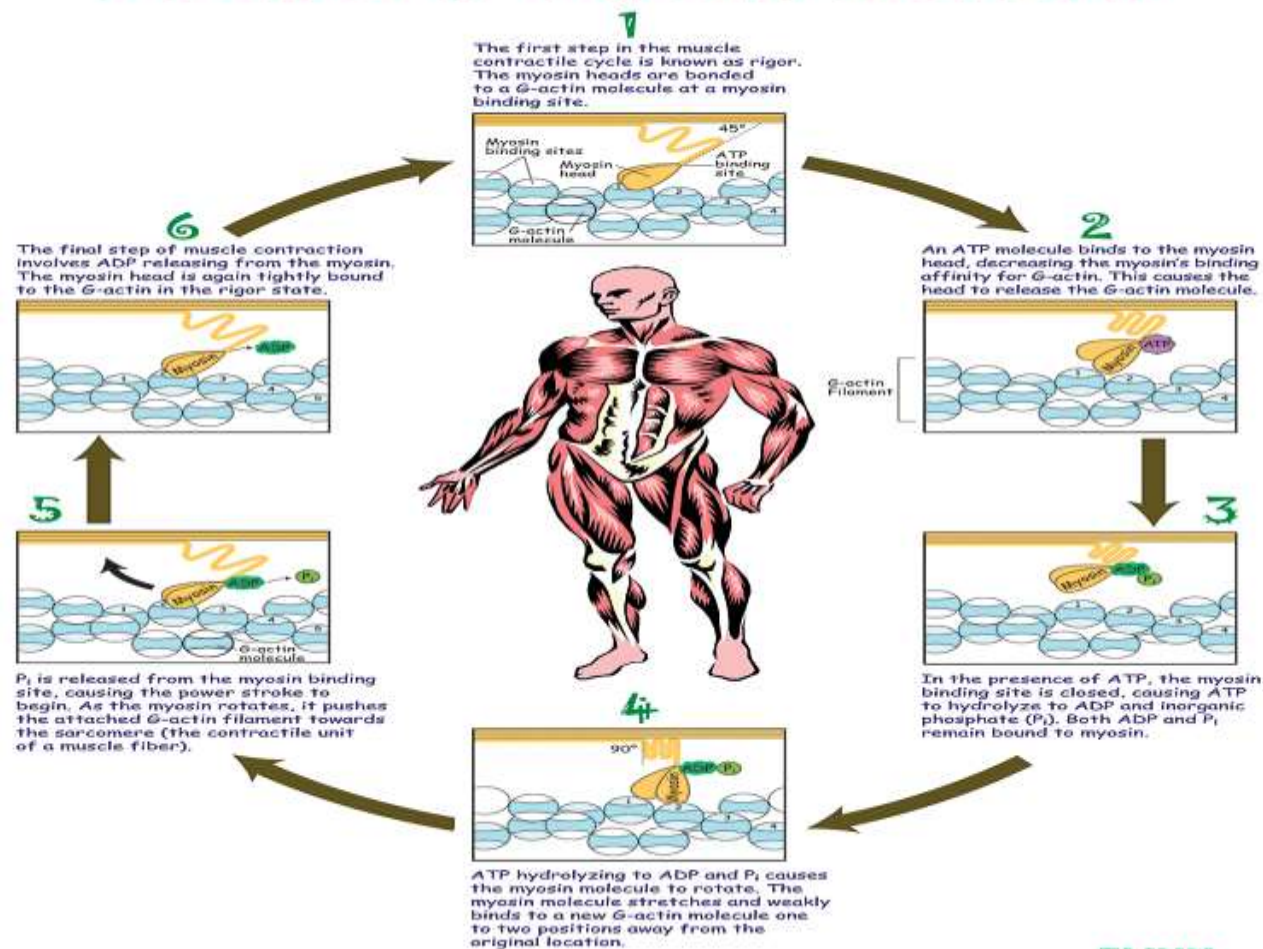


PHYSIOLOGY OF SKELETAL MUSCLE CONTRACTION



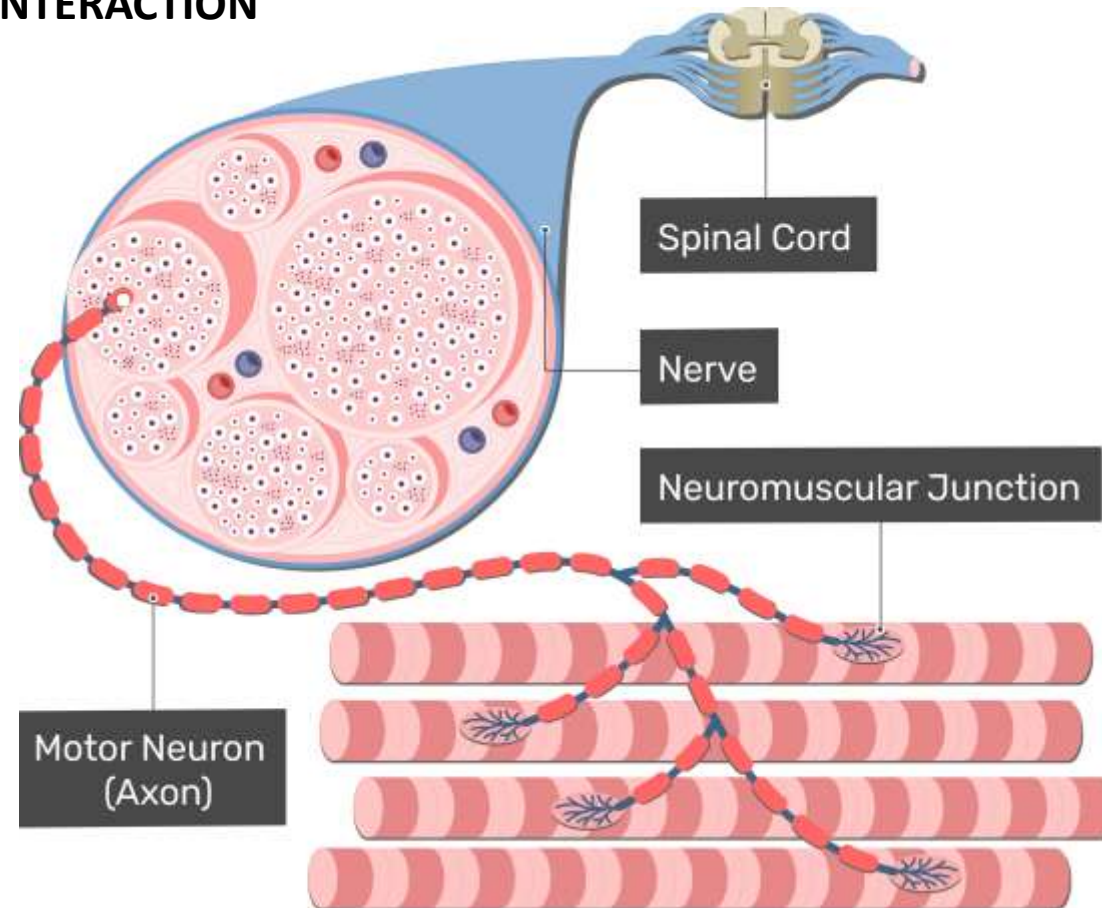
SKELETAL MUSCLE CONTRACTION

Muscle Contraction

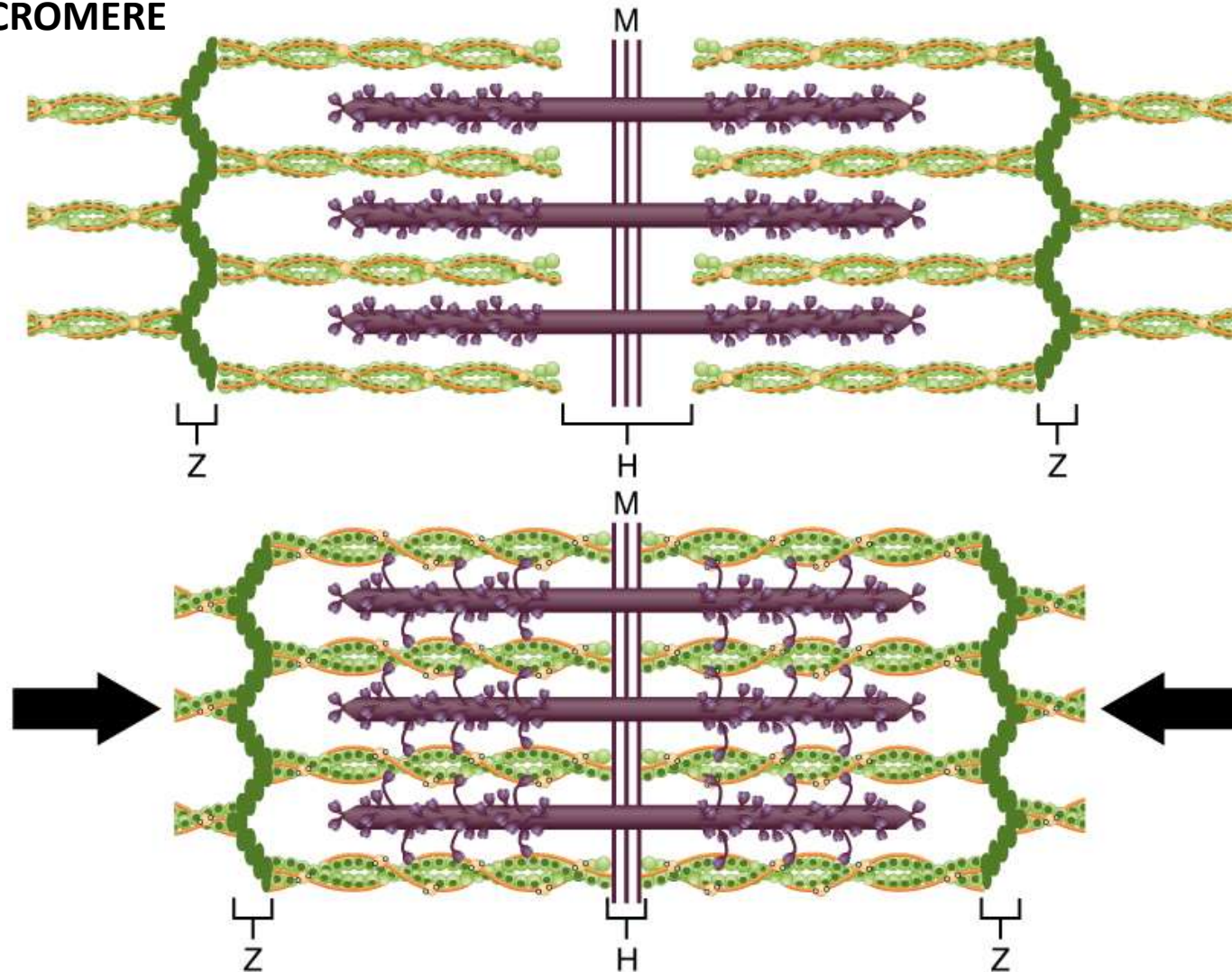


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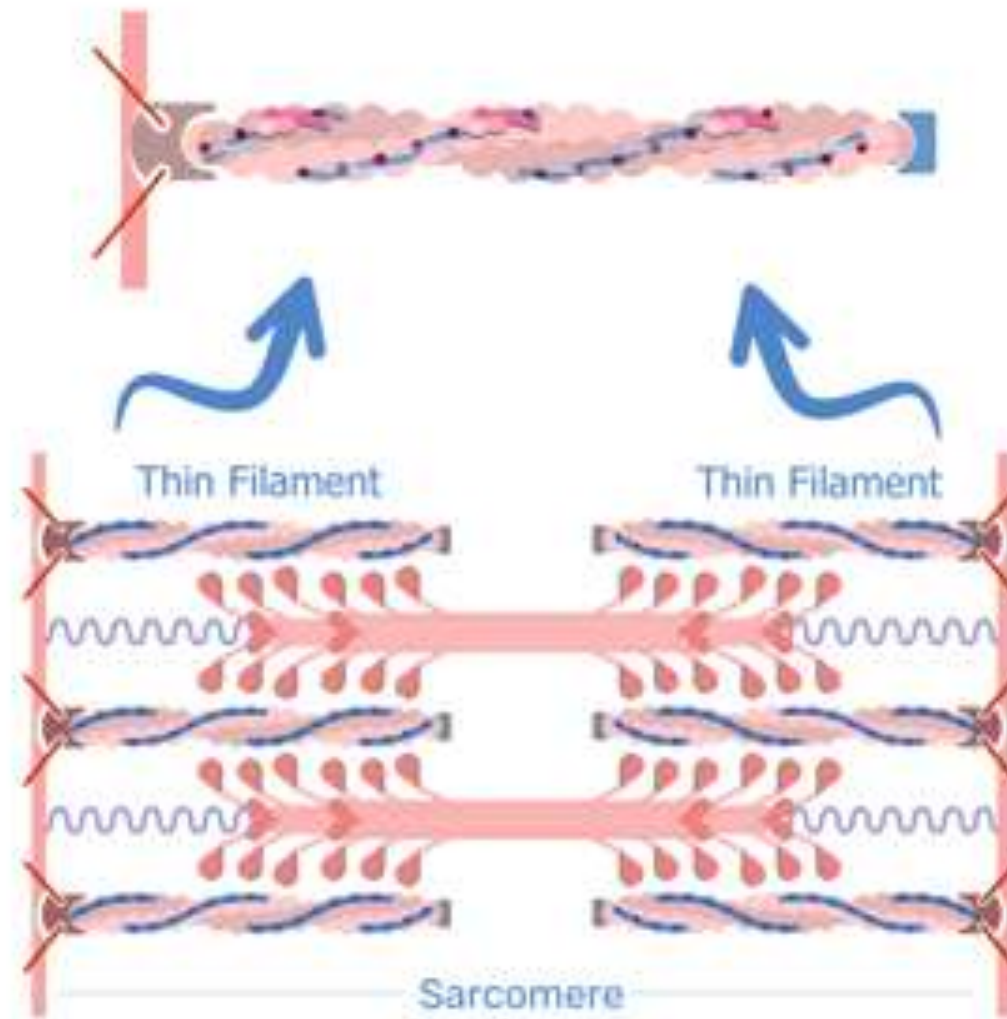
MUSCLE AND NERVE INTERACTION



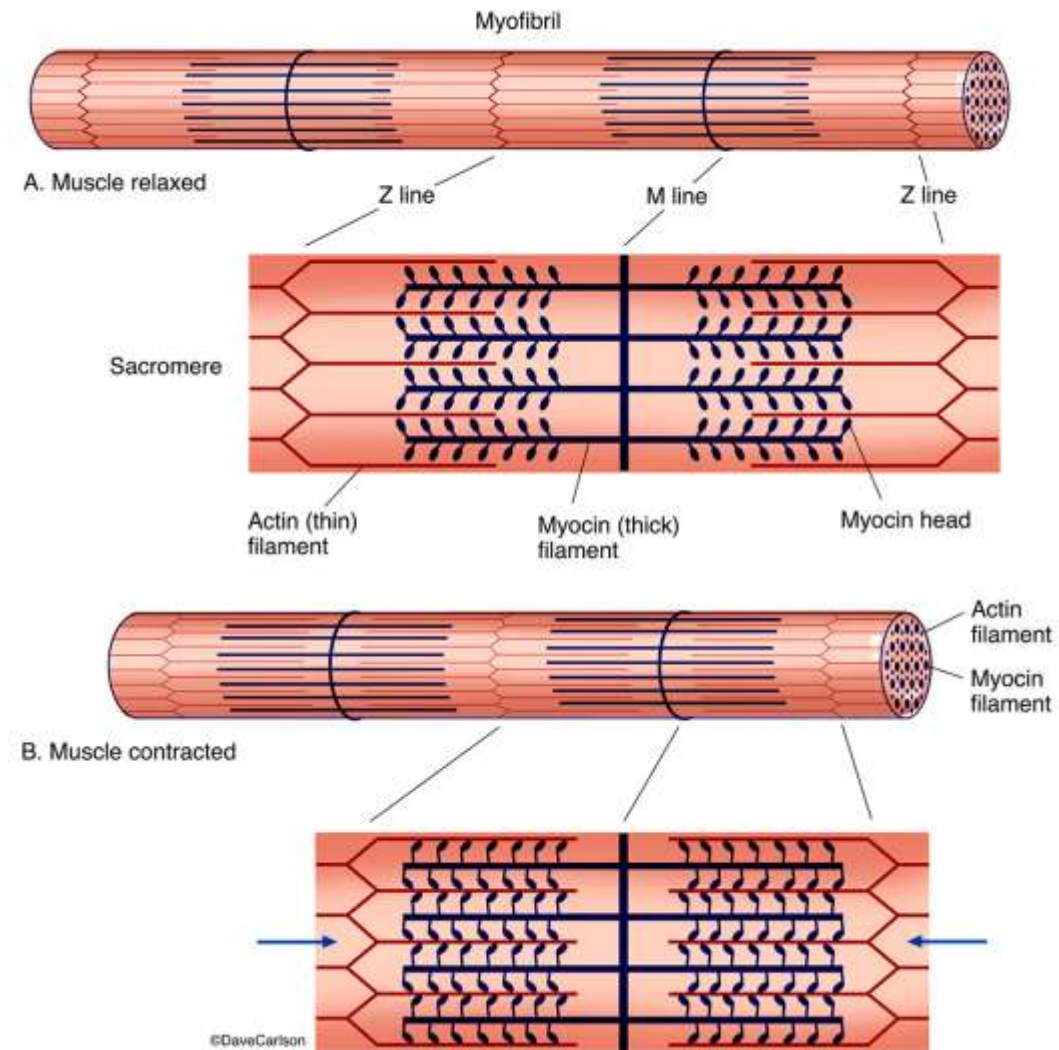
STRUCTURE OF SACROMERE



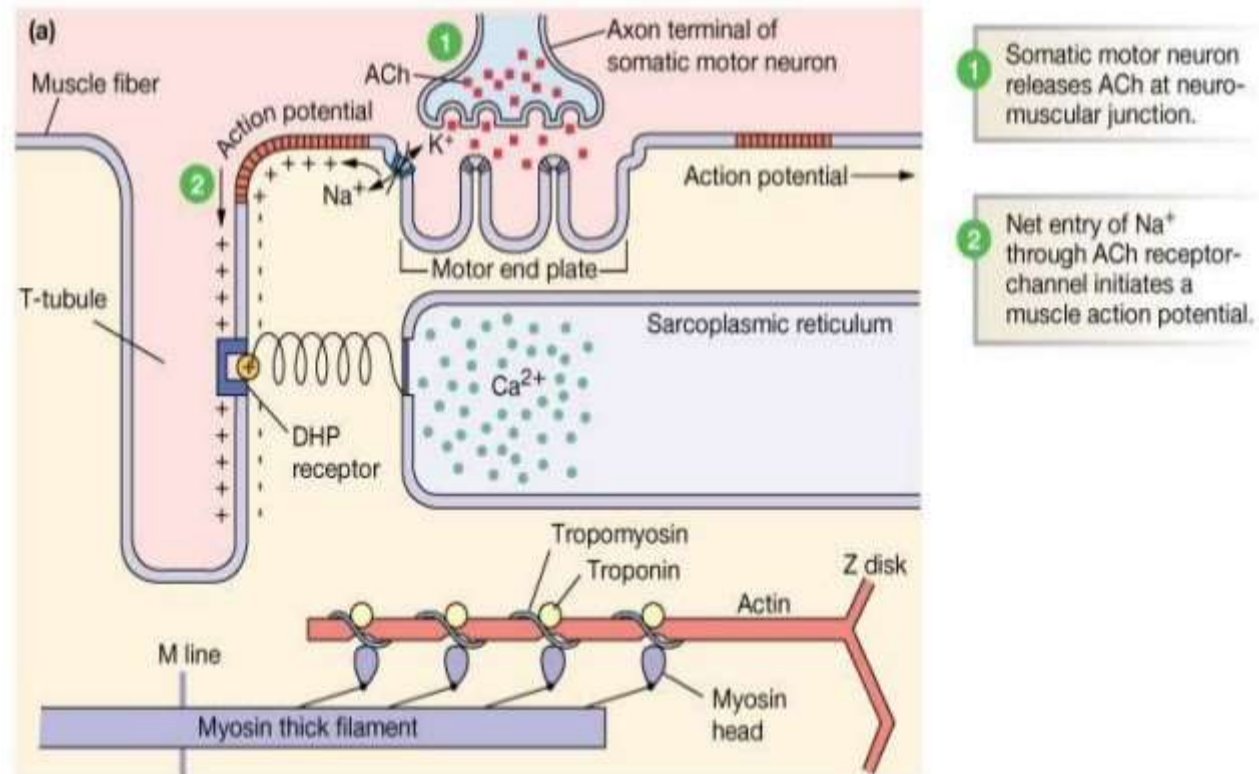
THIN & THICK FILAMENT



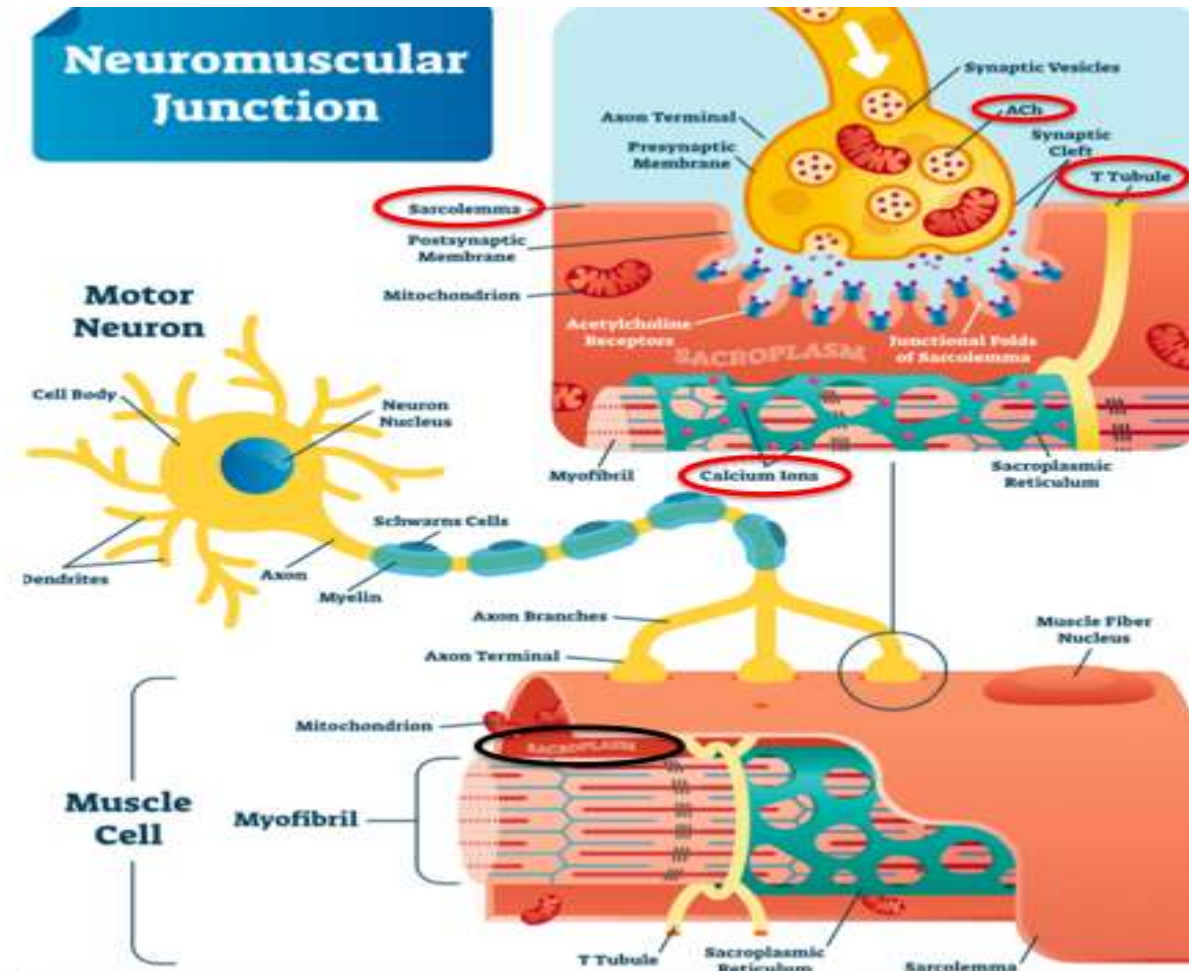
HOW DOES MUSCLE CONTRACT & RELAX?



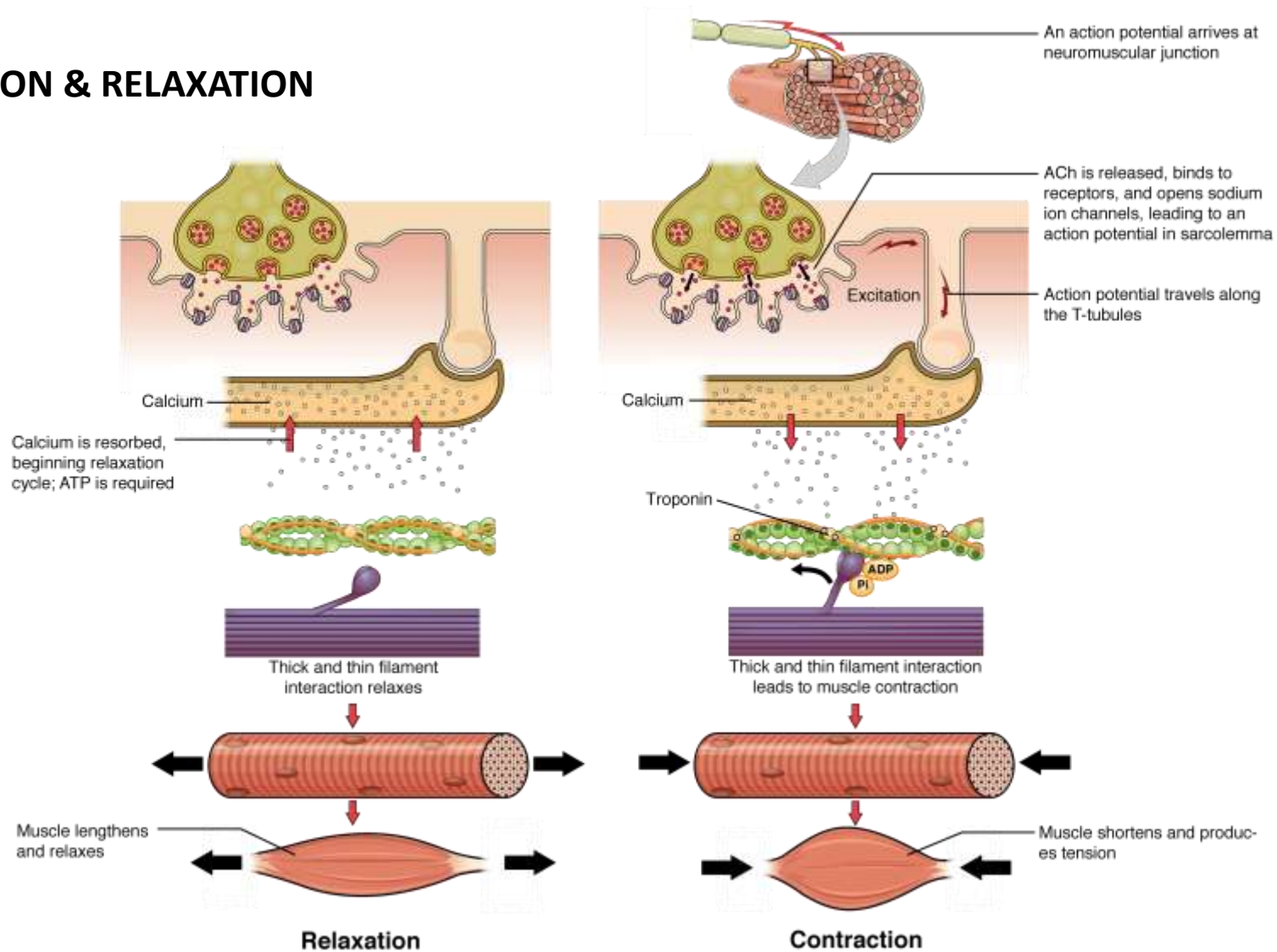
Skeletal Muscle Contraction: EXCITATION CONTRACTION COUPLING



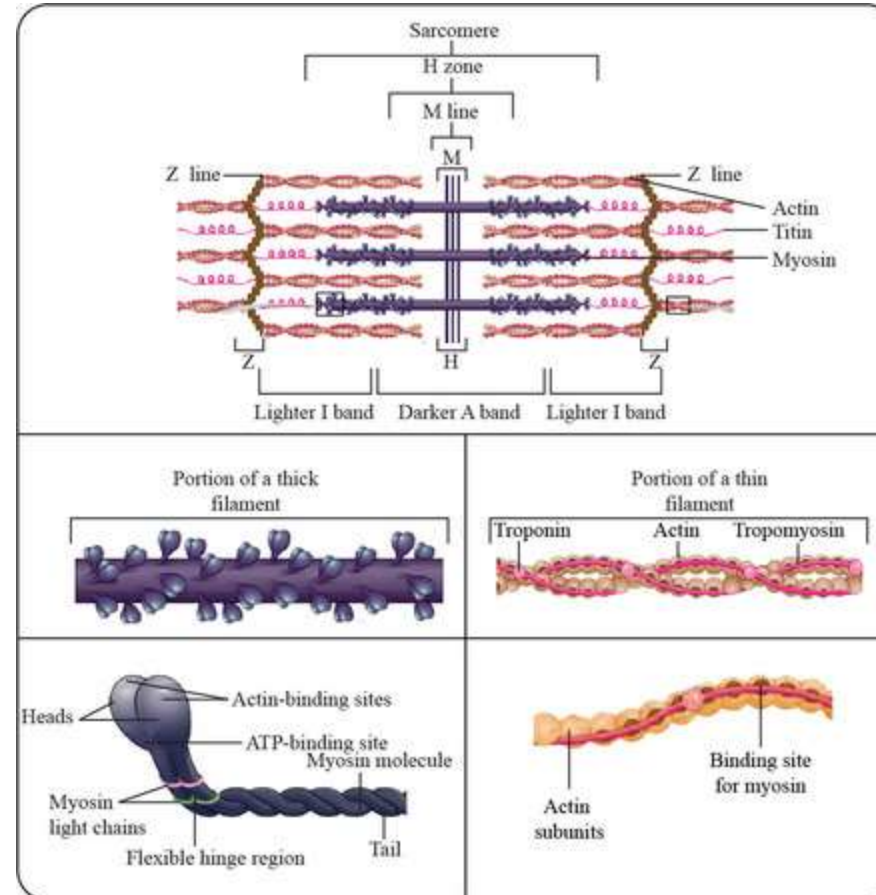
NEUROMUSCULAR JUNCTION



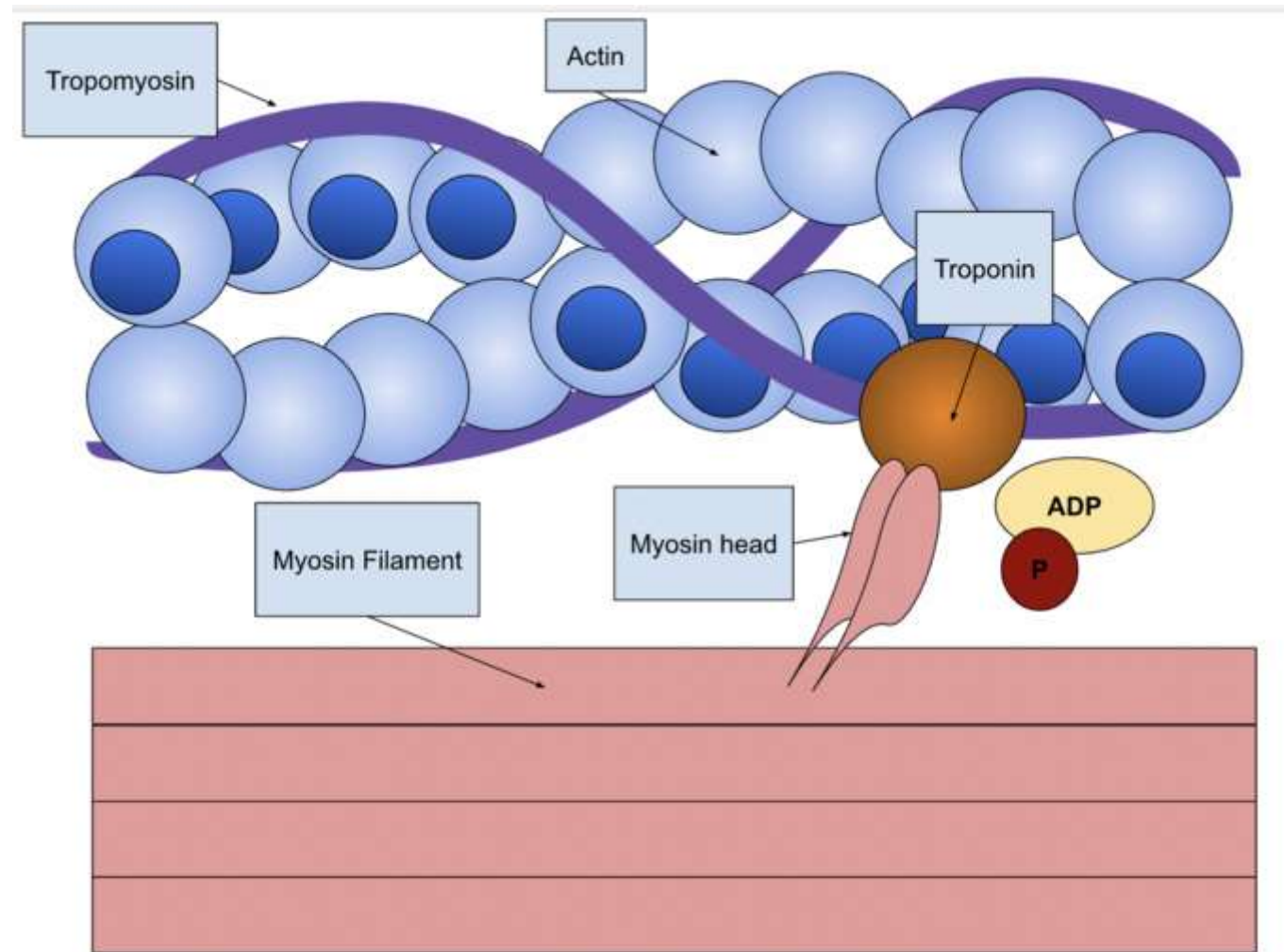
CONTRACTION & RELAXATION



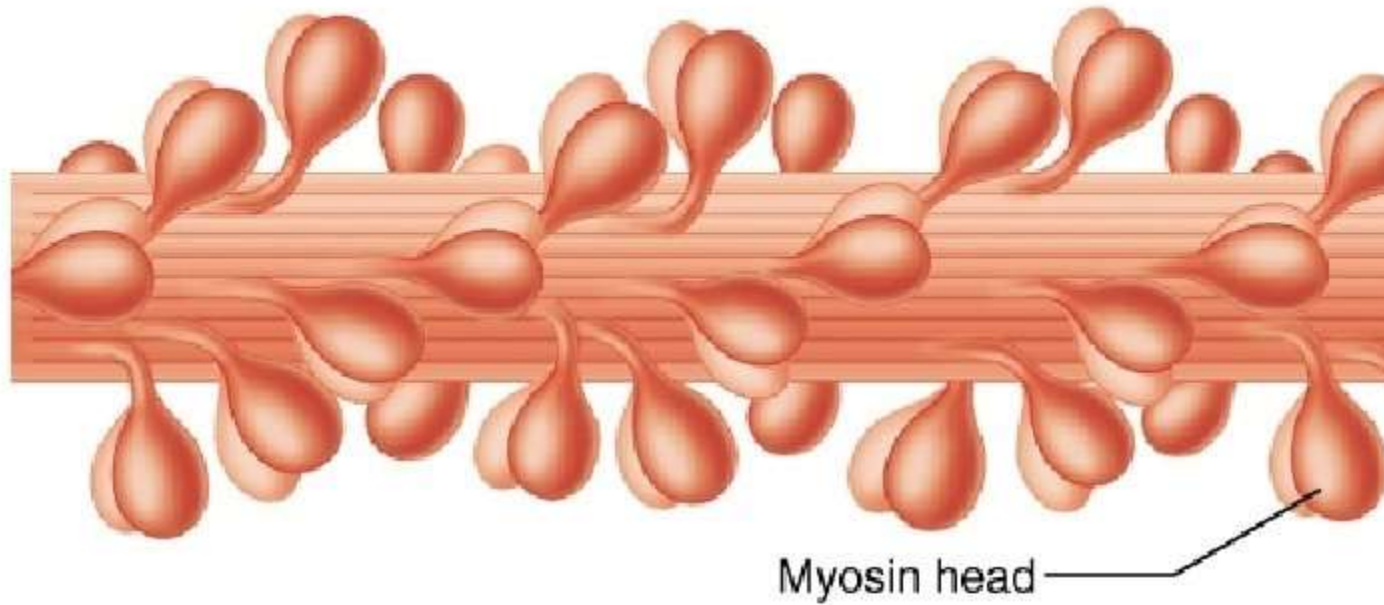
SLIDING FILAMENT THEORY



MYOSIN AND ACTIN FILAMENT



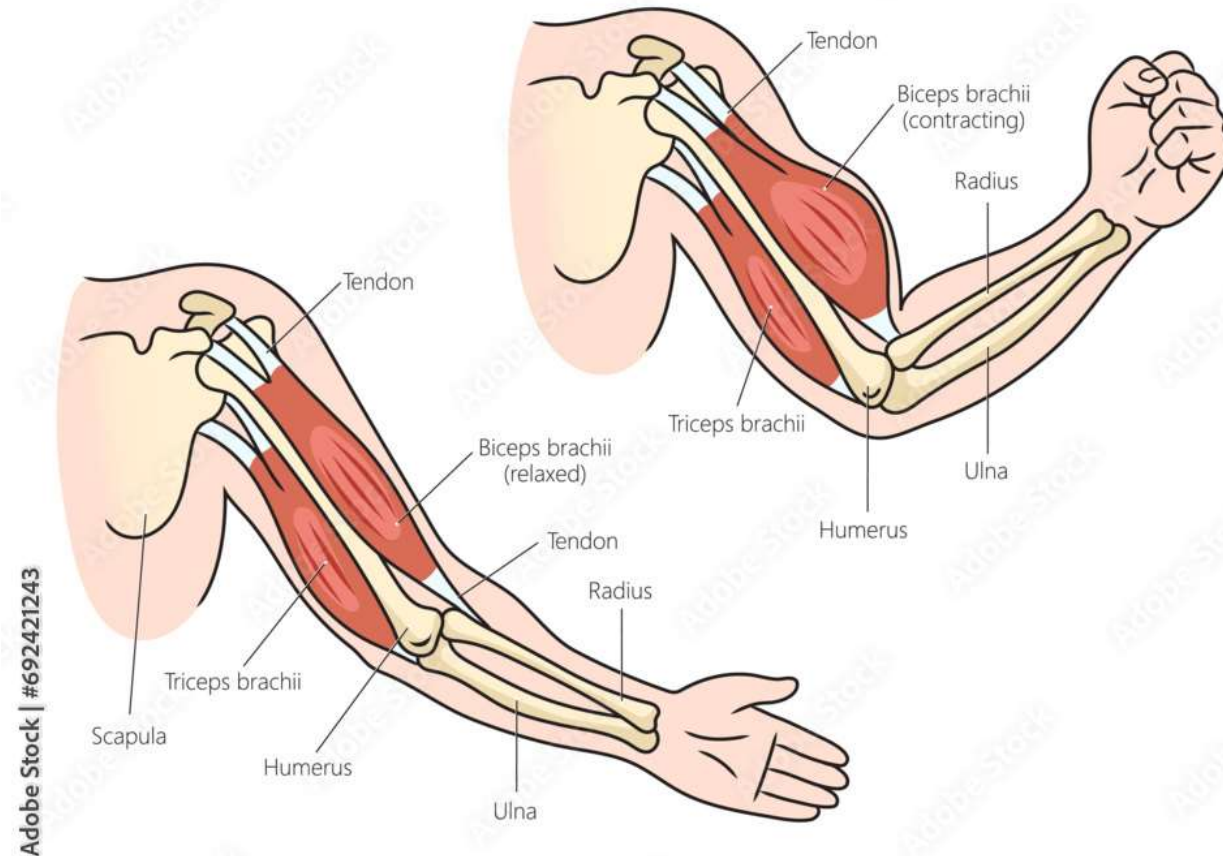
MYOSIN HEAD



(b) Portion of a thick filament

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Muscle contraction

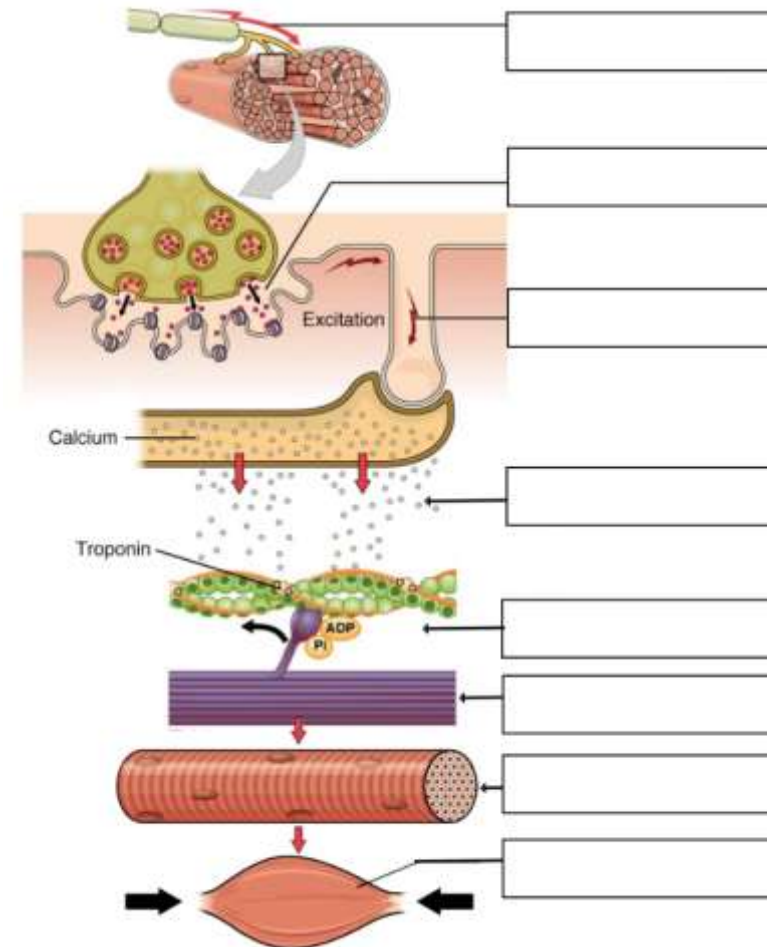


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CLASS ASSESSMENTS

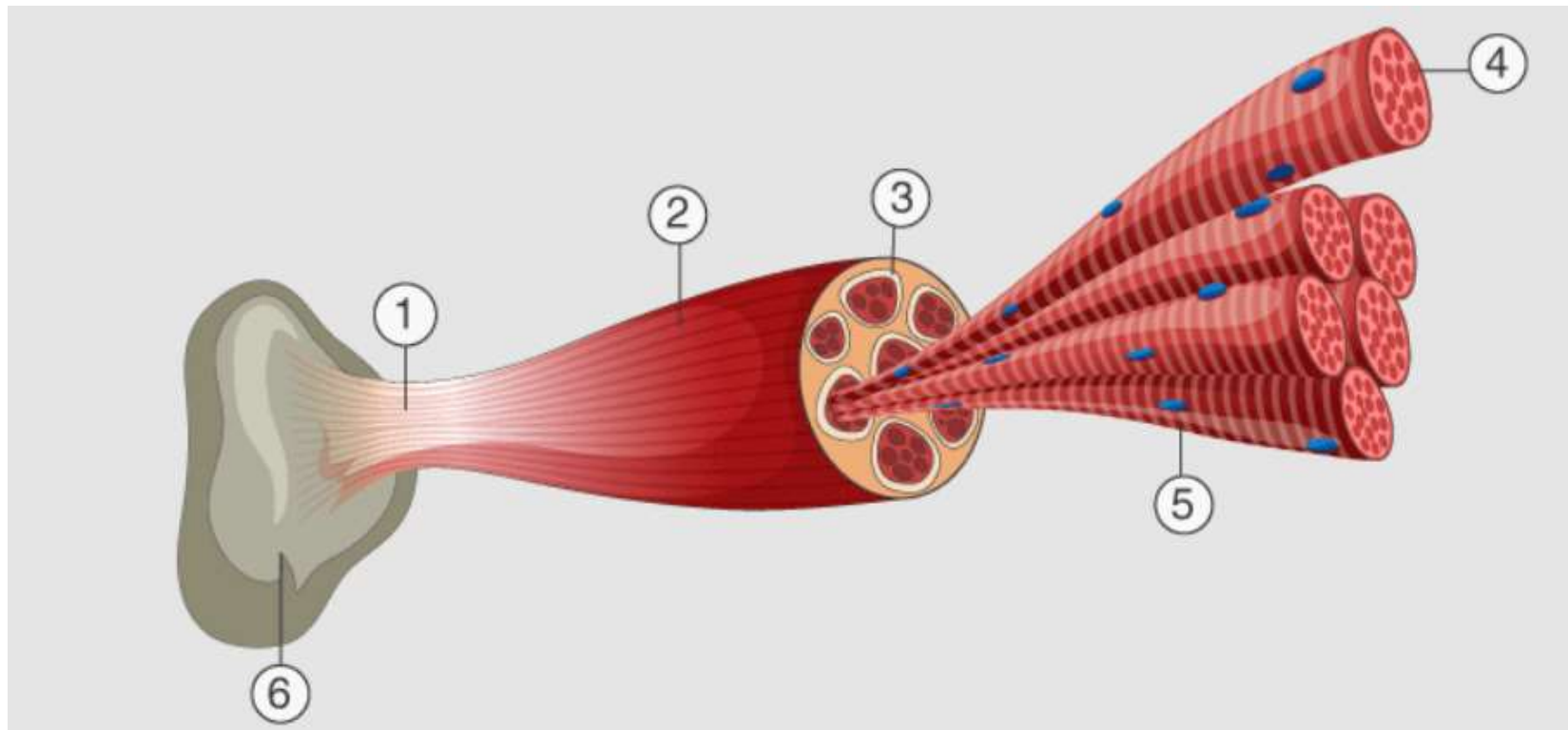
Write down the physiology of muscle contraction?





CLASS ASSESSMENTS

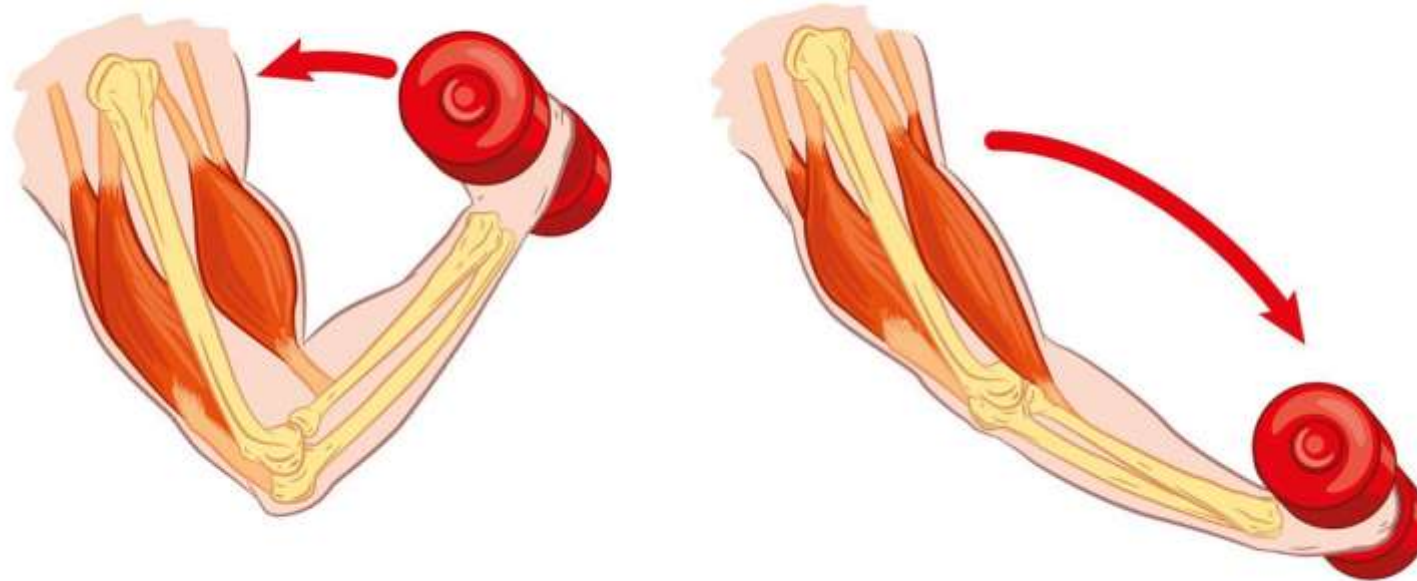
Identify the parts in skeletal muscle?



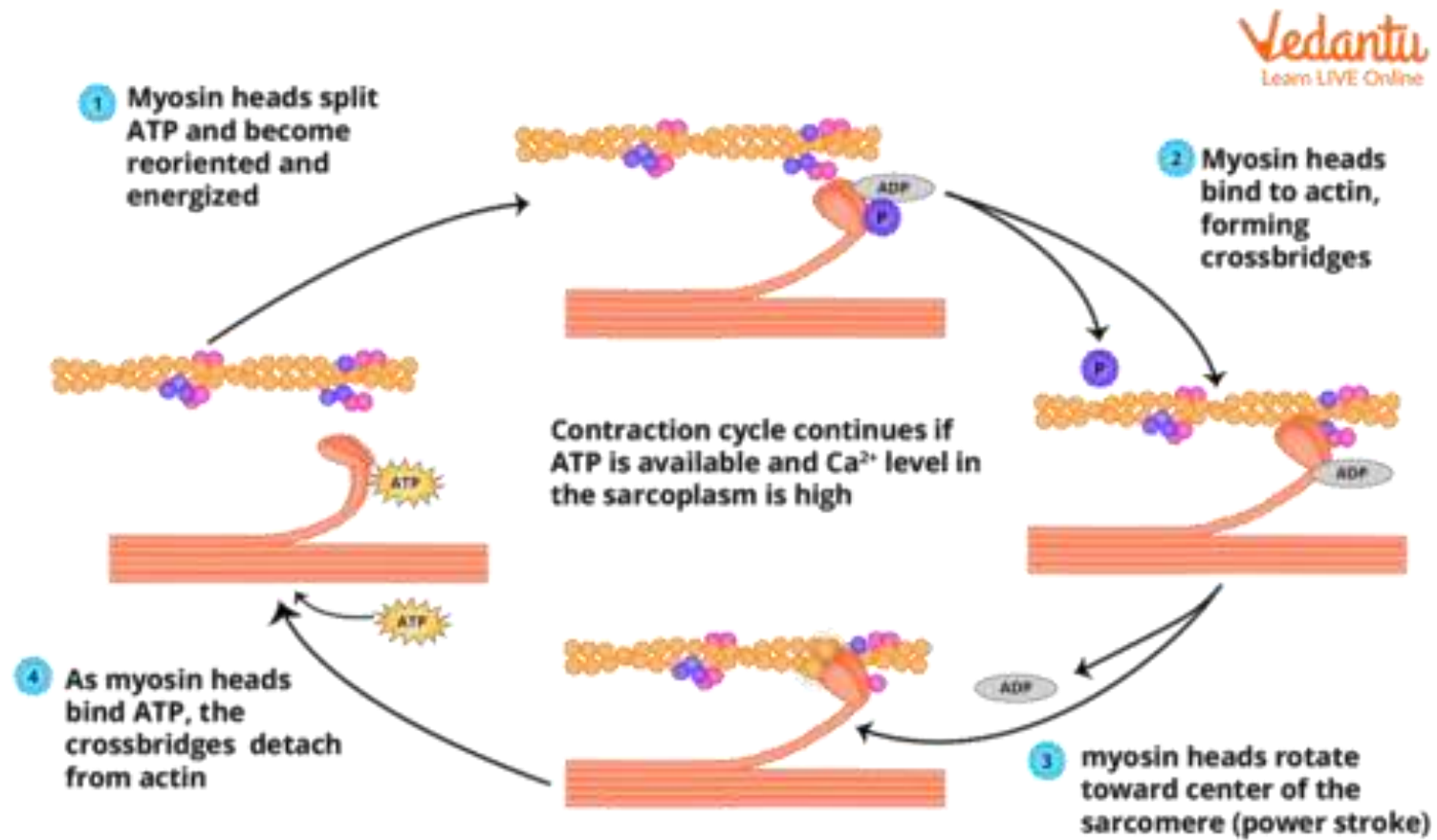
CLASS ASSESSMENTS



Find the types of movement?



SUMMARY



REFERENCE

- ✓ Essentials of Medical Physiology, K. Sembulingam & P. Sembulingam (Jaypee Brothers Medical Publishers)
- ✓ A Textbook of Human Anatomy and Physiology-I, SIA Publishers
- ✓ Human Anatomy & Physiology Gerard J. Tortora & Bryan H. Derrickson (Wiley)
- ✓ Ross and Wilson anatomy and physiology in health and illness, Anne Waugh & Allison Grant.

