

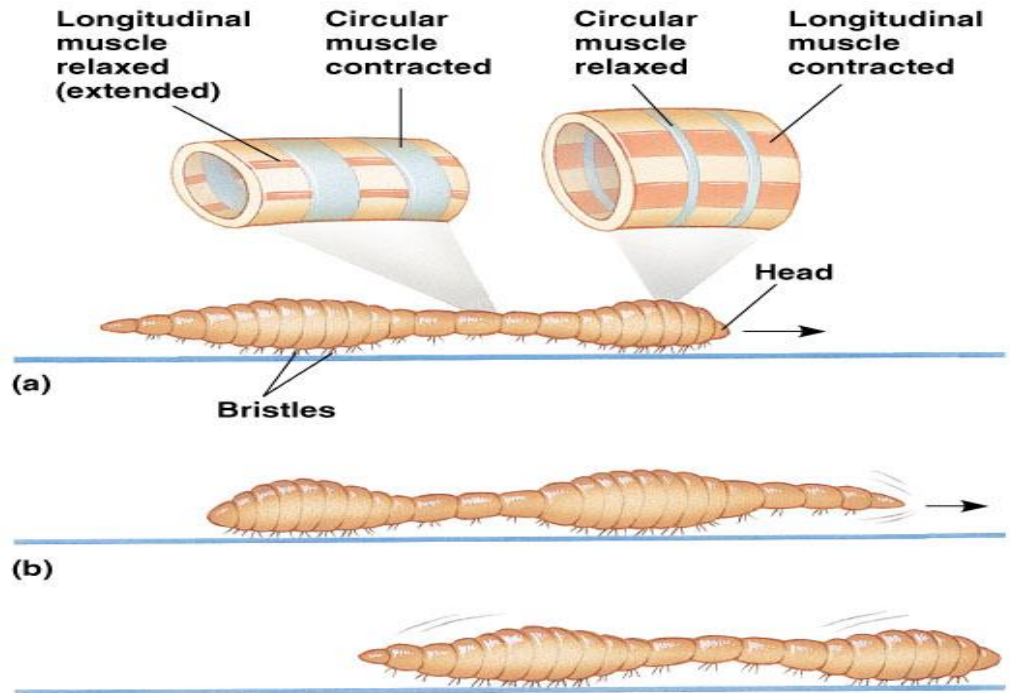
Kompetensi

Memahami jenis dan struktur otot serta mekanisme kerja otot

OTOT

Alat gerak aktif → Menggerakkan rangka

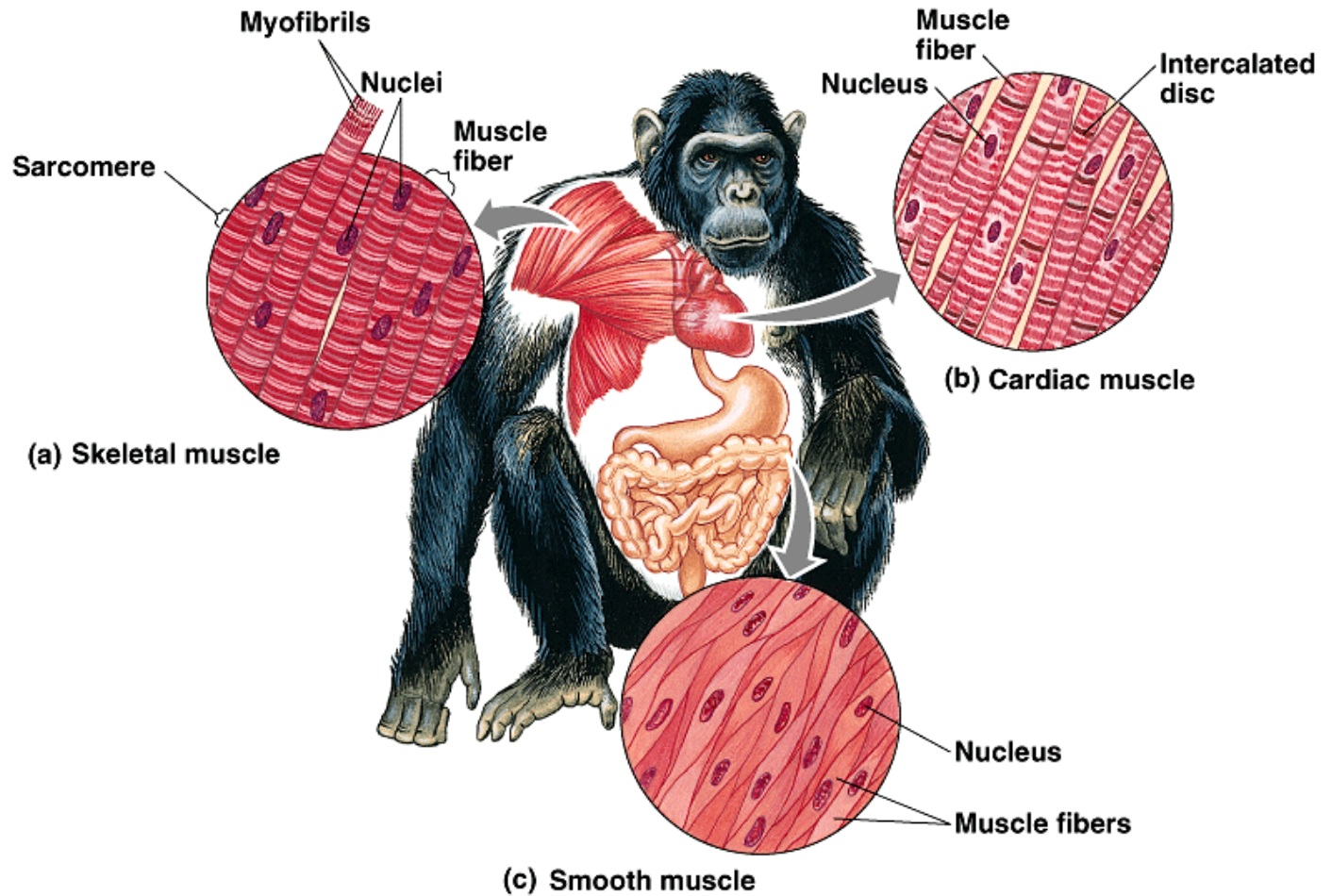
Melakukan gerak dengan cara kontraksi



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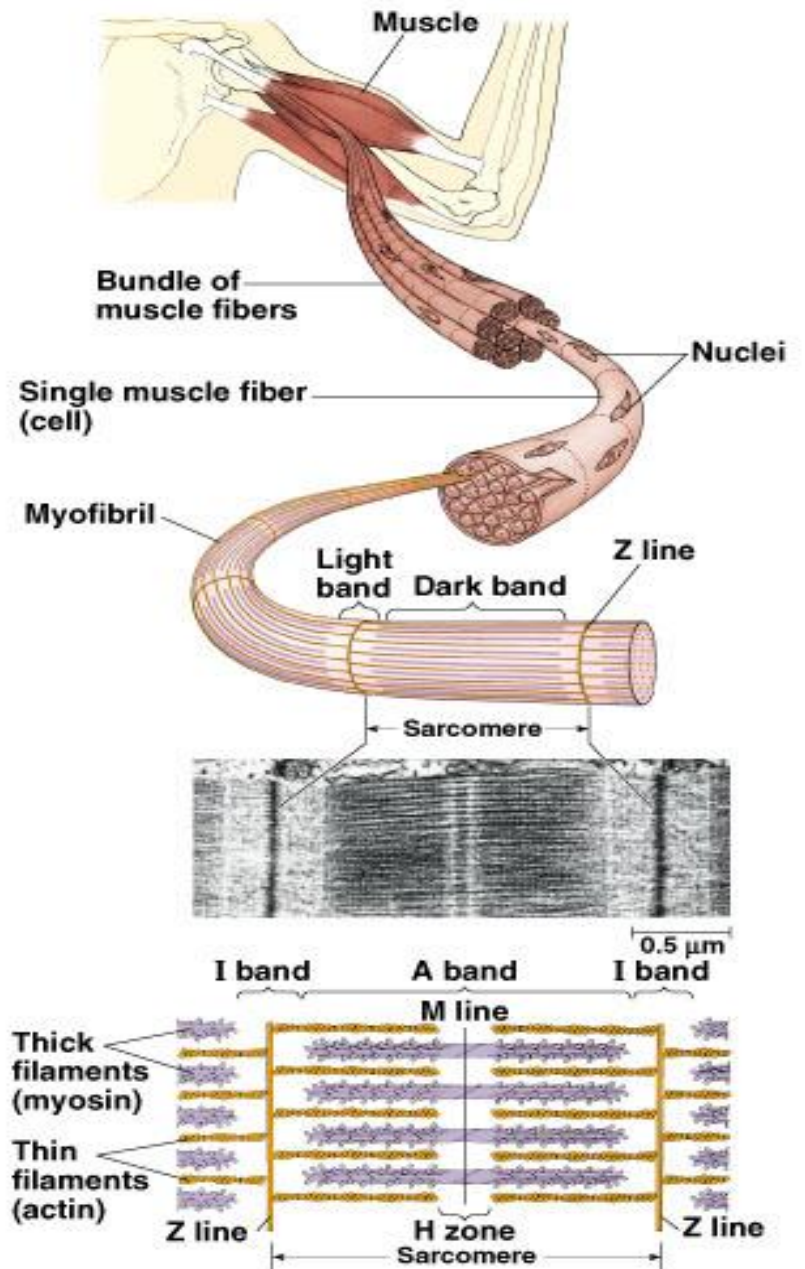
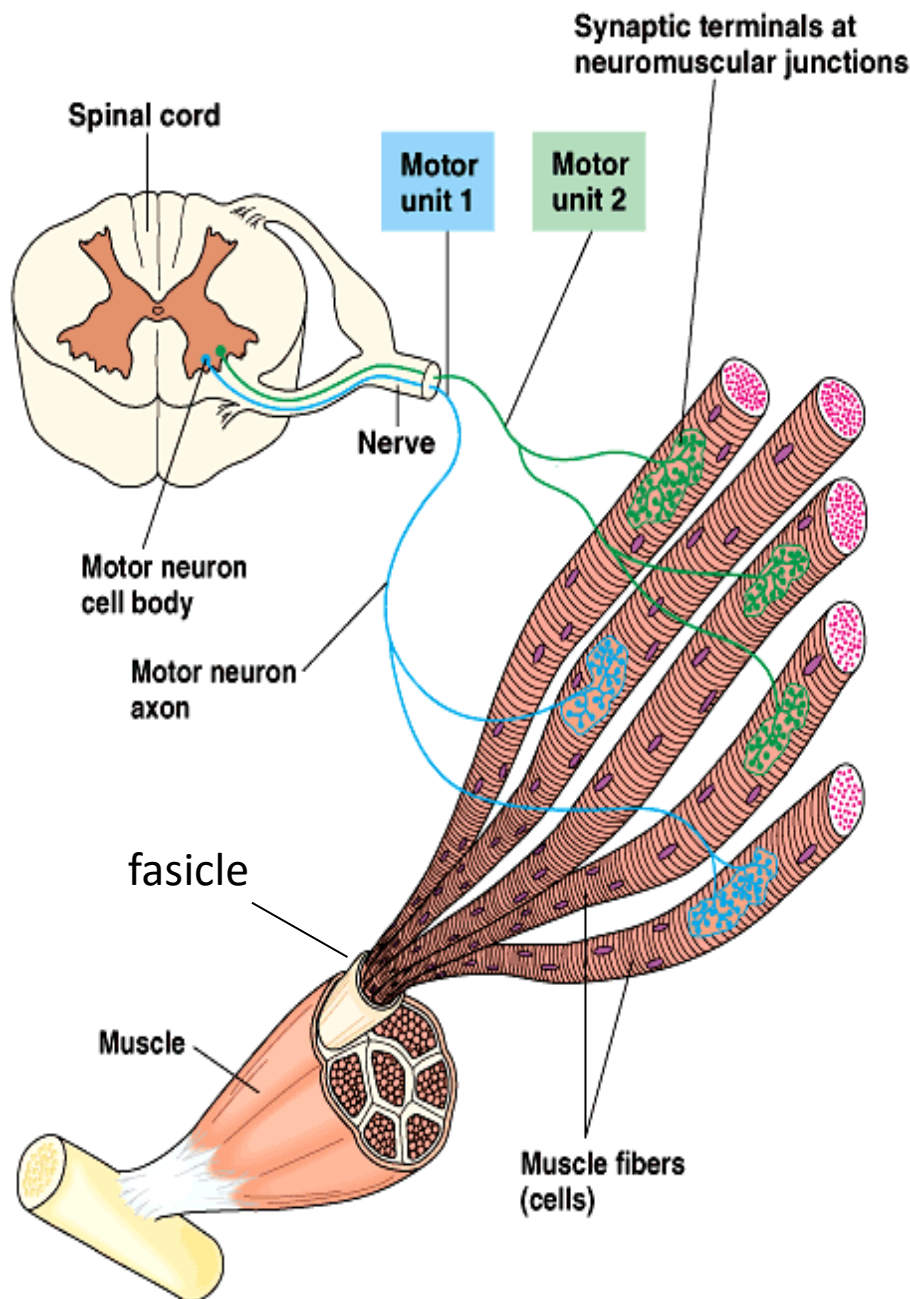


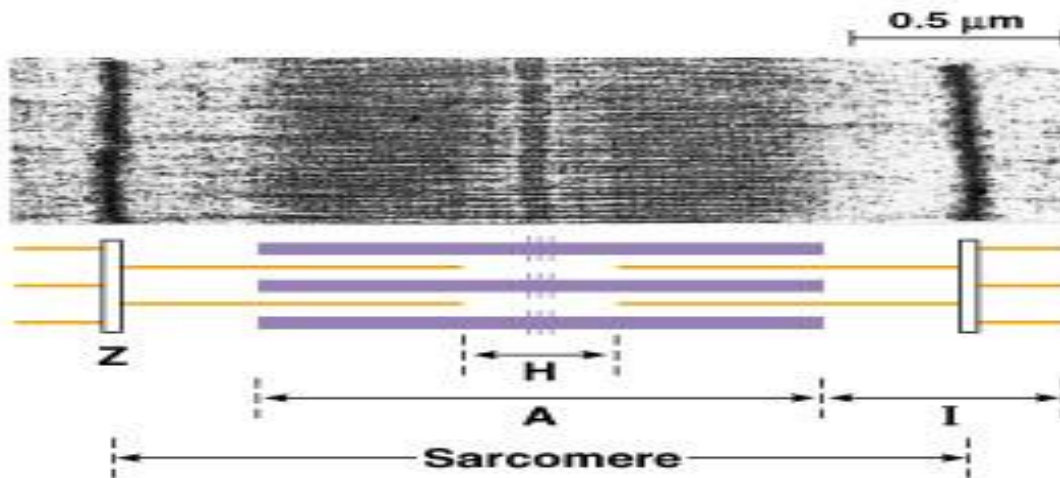
Otot rangka
Otot jantung
Otot polos



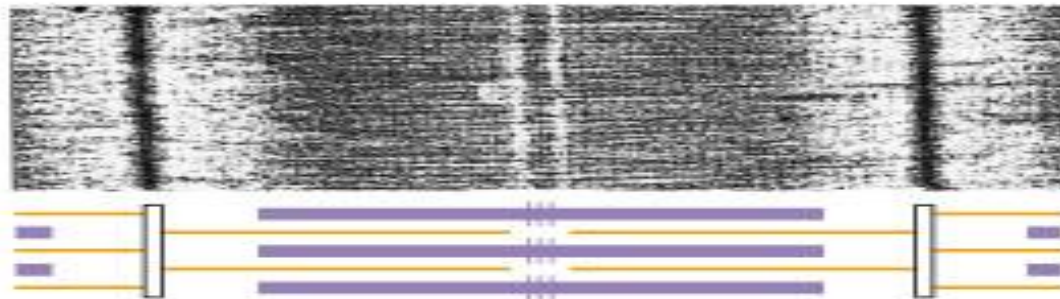
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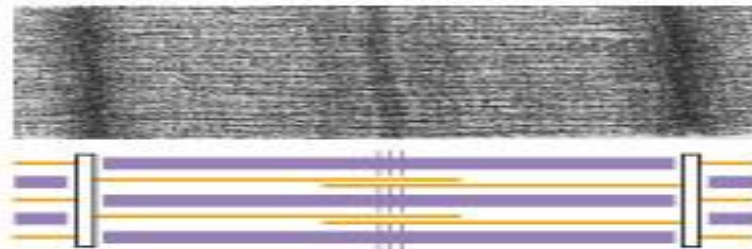




(a) Muscle relaxed (extended)



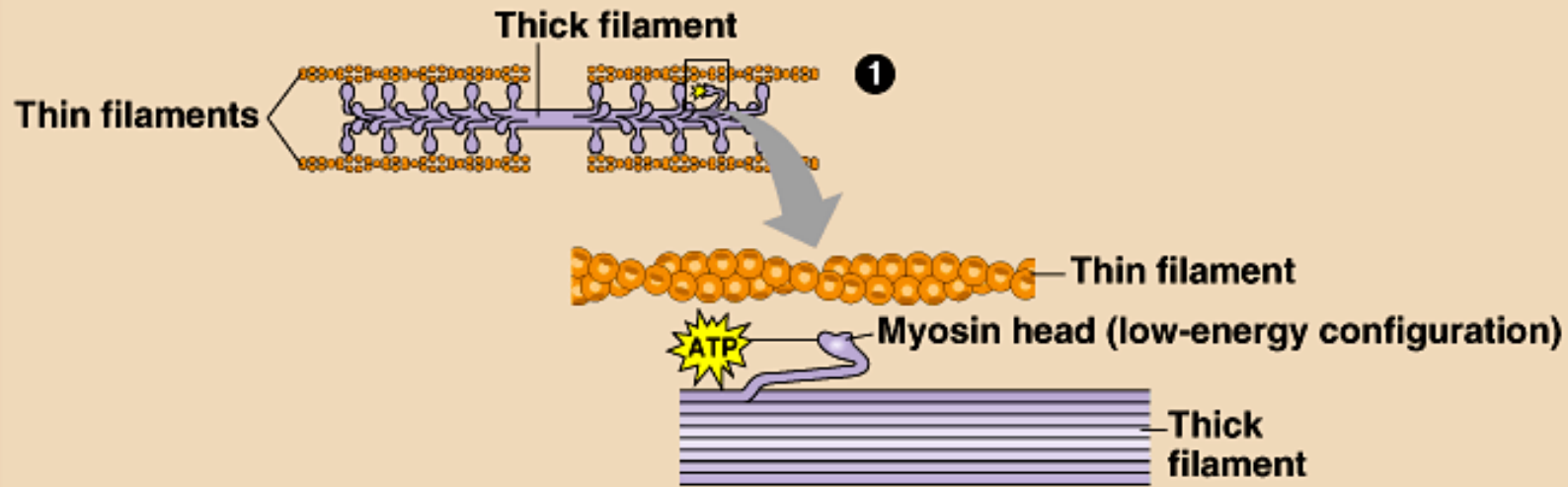
(b) Muscle contracting

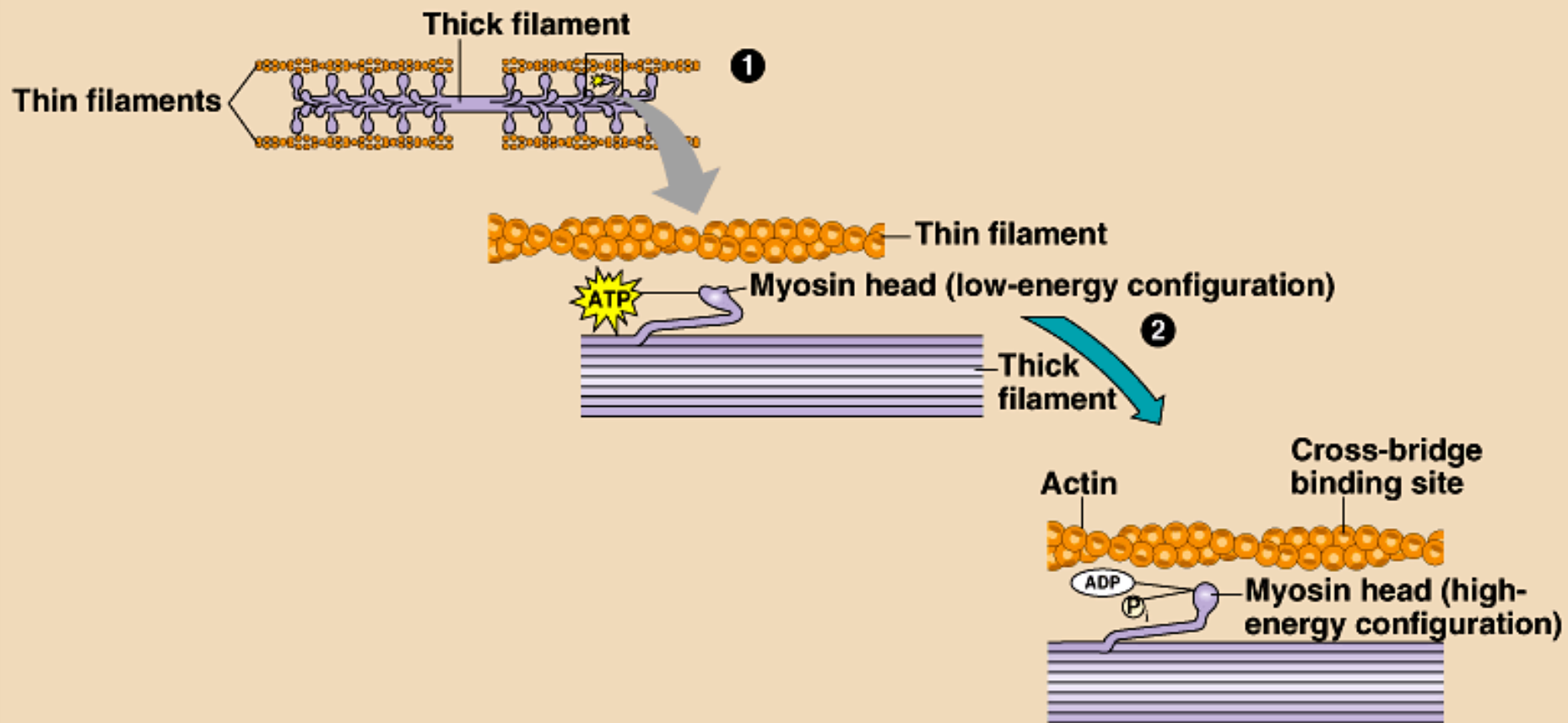


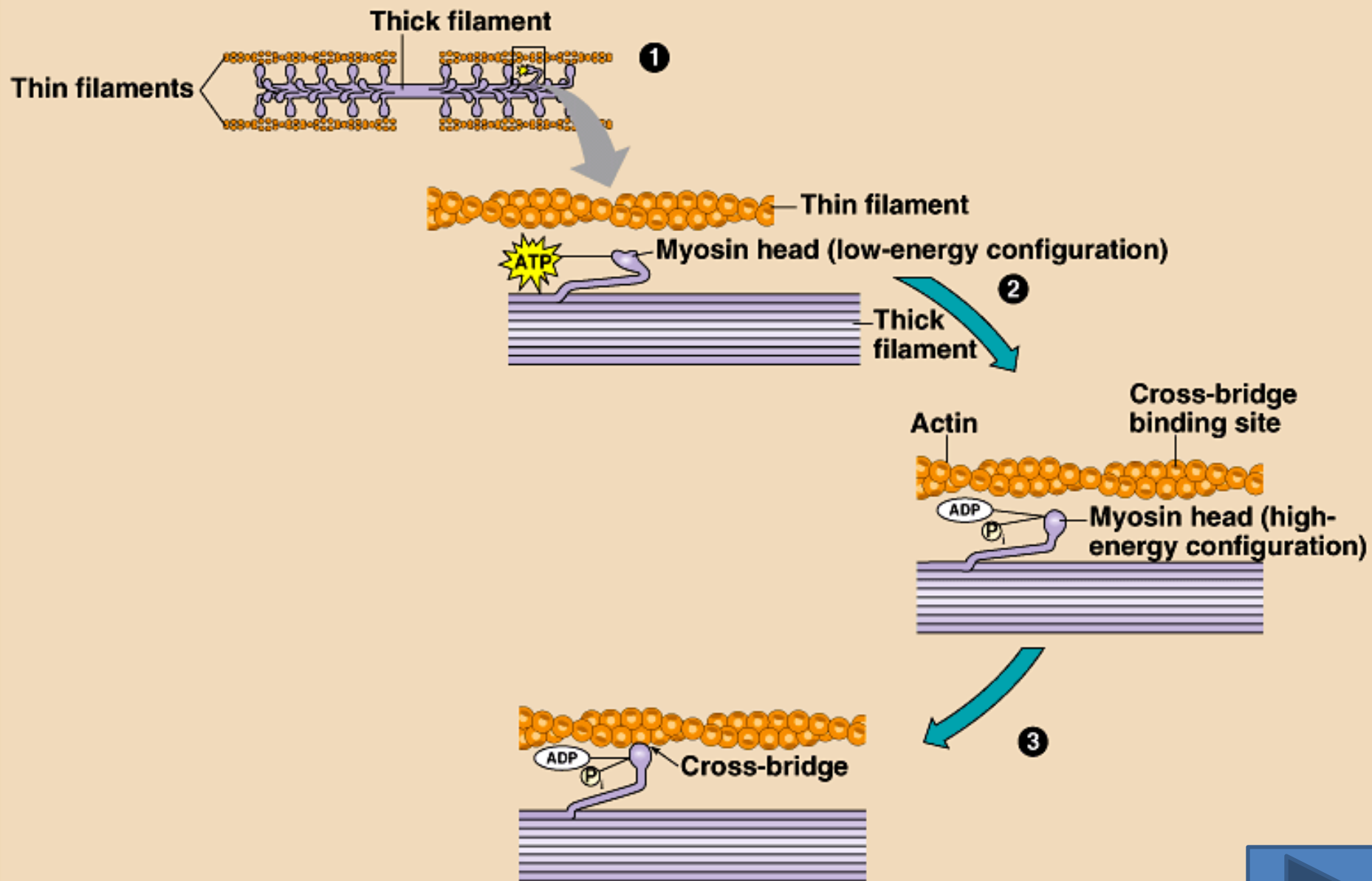
(c) Muscle contracted

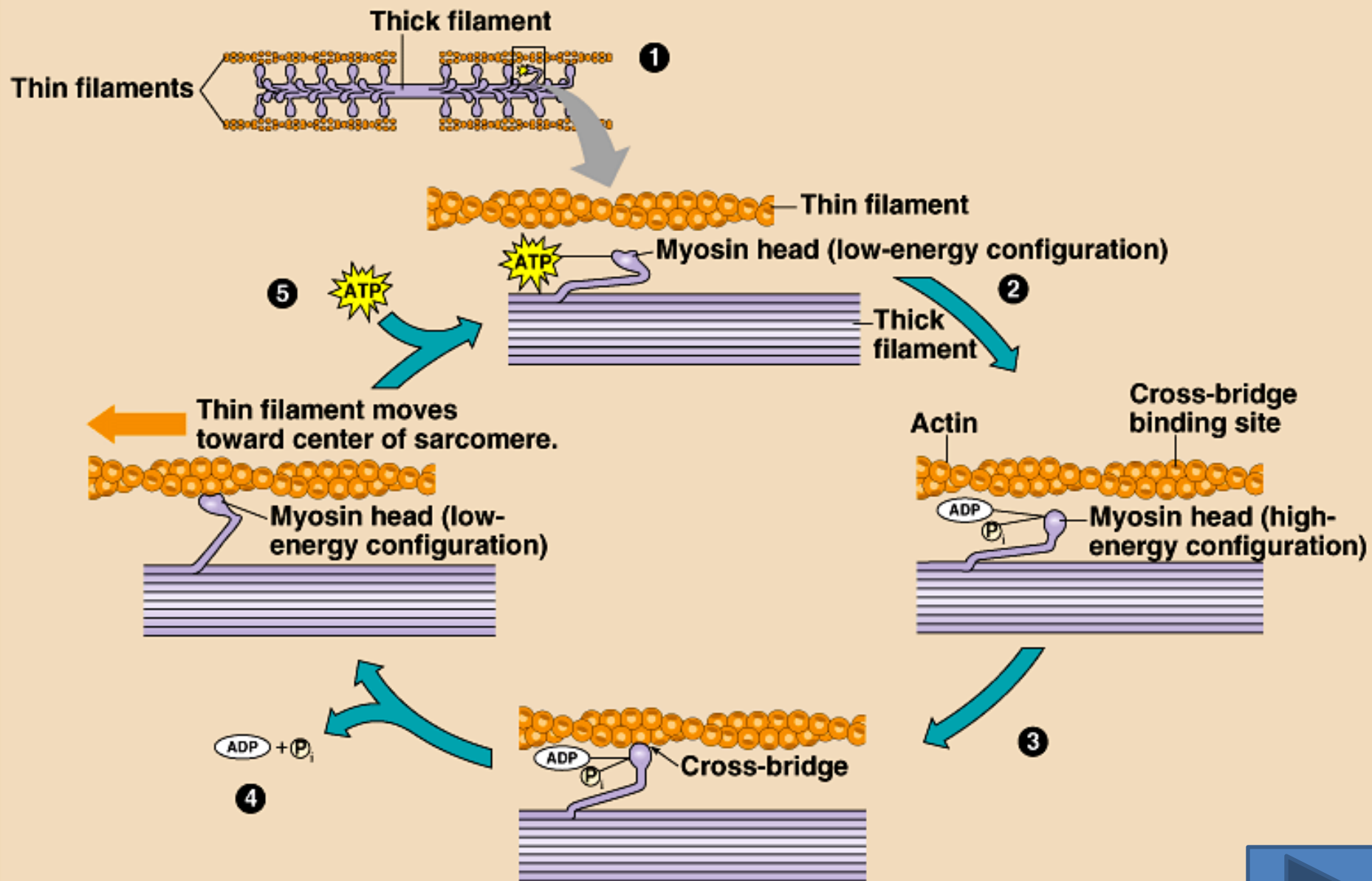
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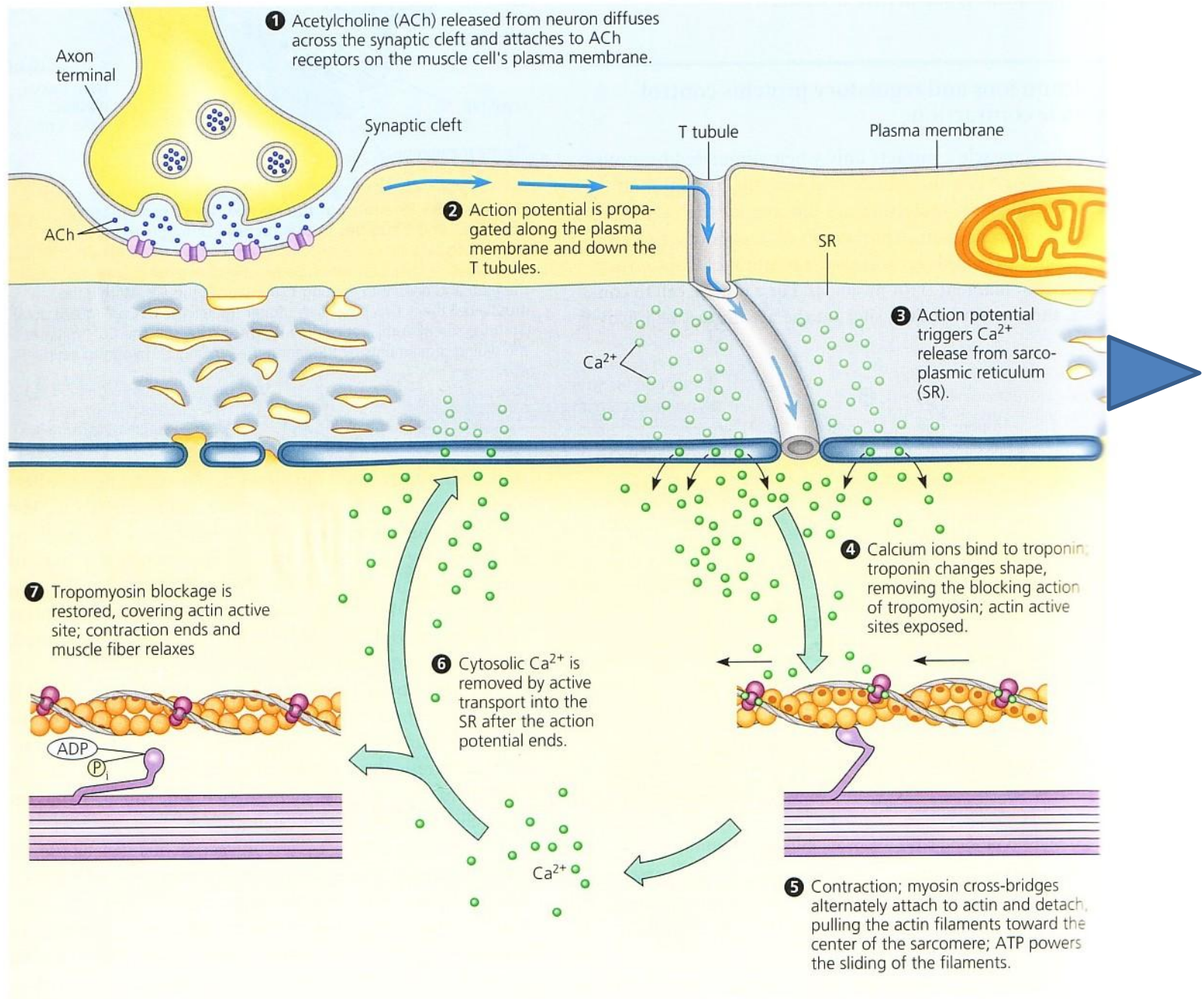
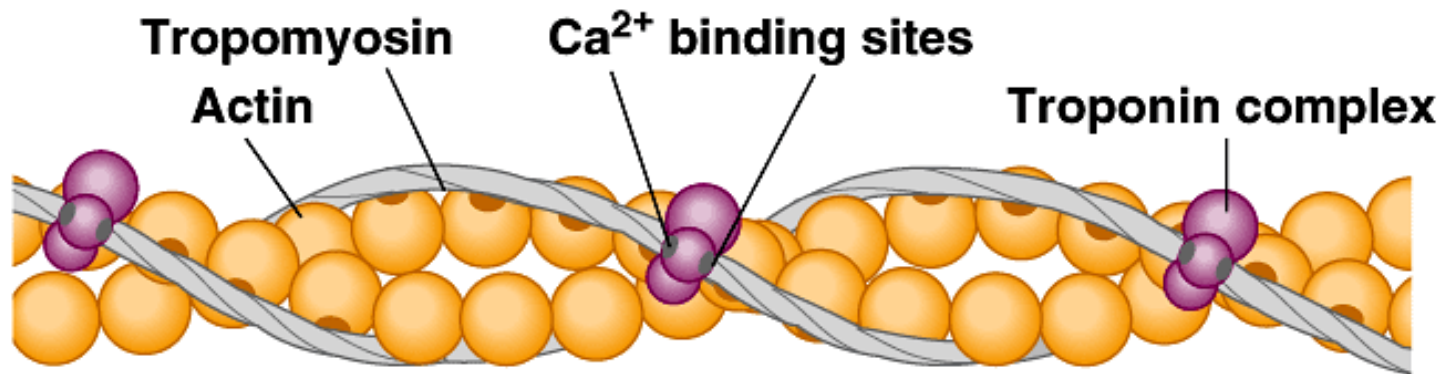
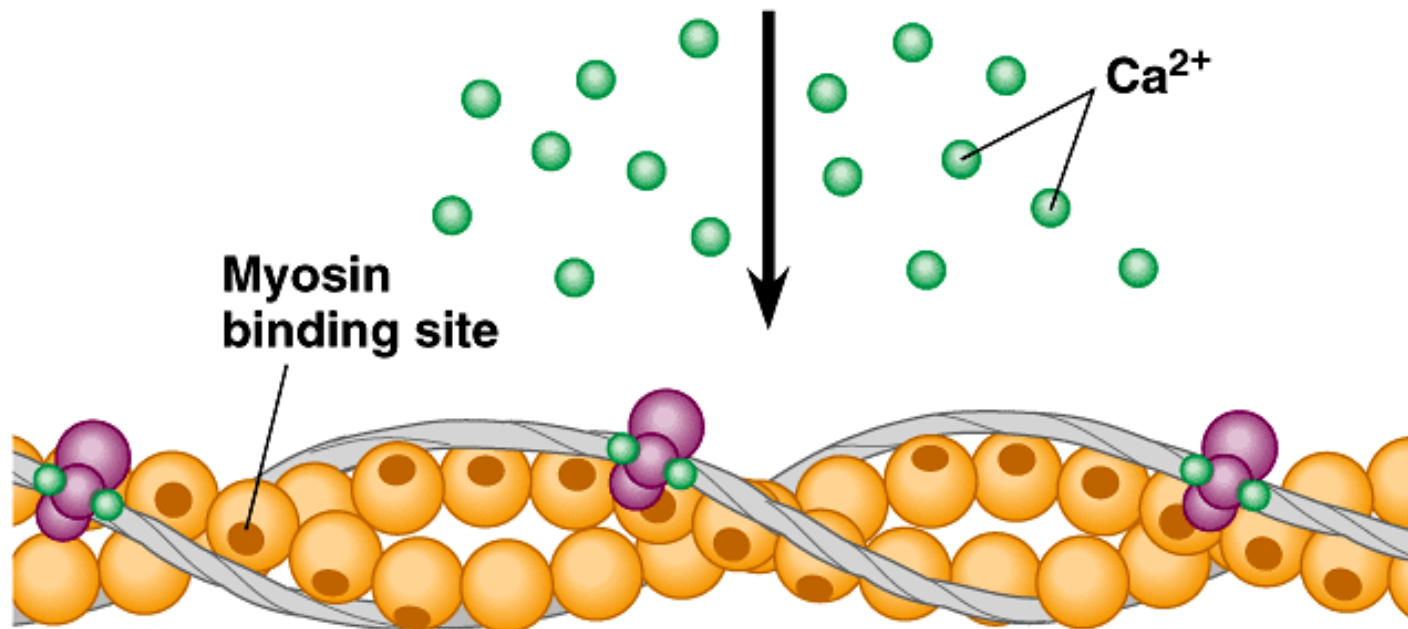


FIGURE 49.36 Review of skeletal muscle contraction.

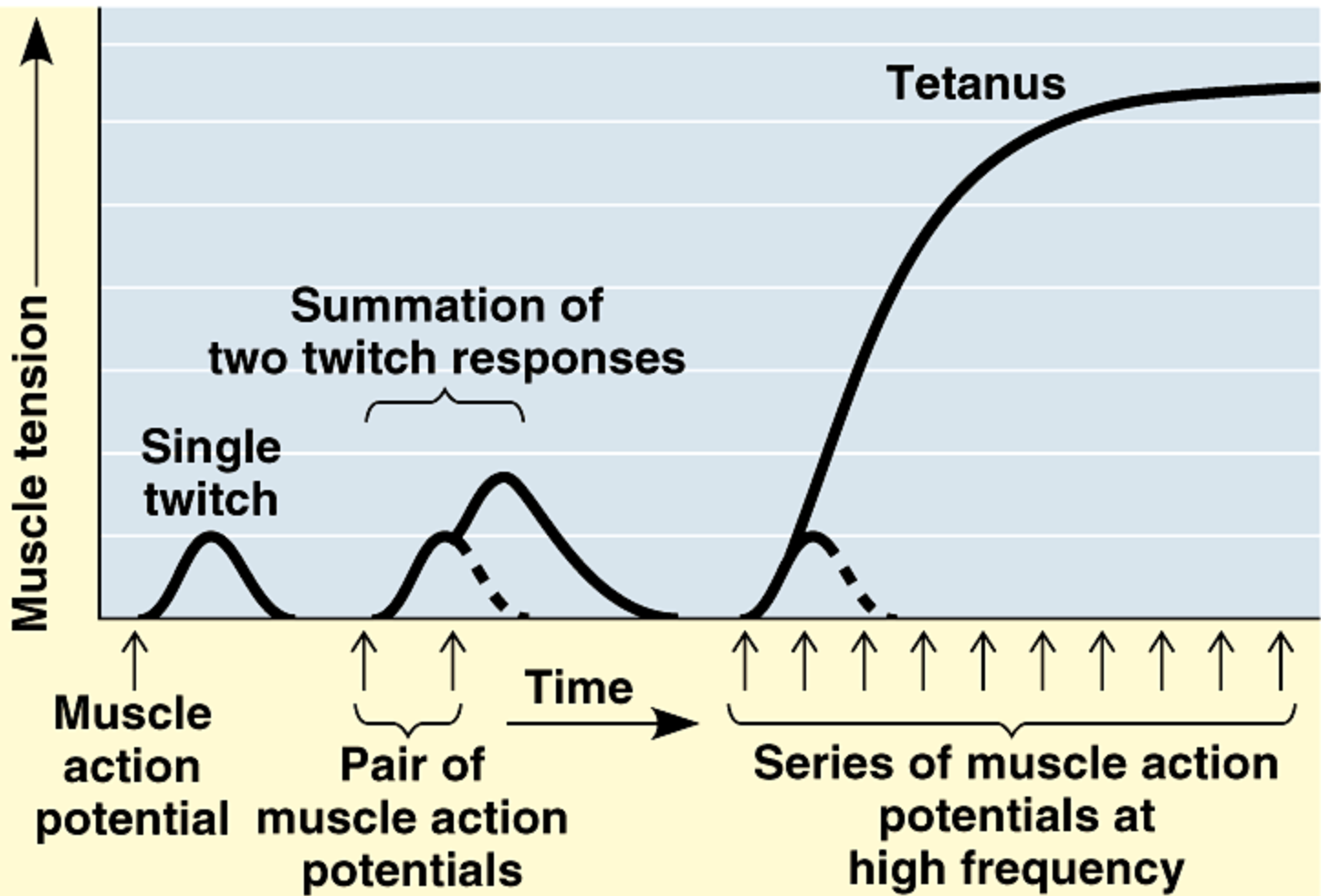


(a) Myosin binding sites blocked; muscle cannot contract

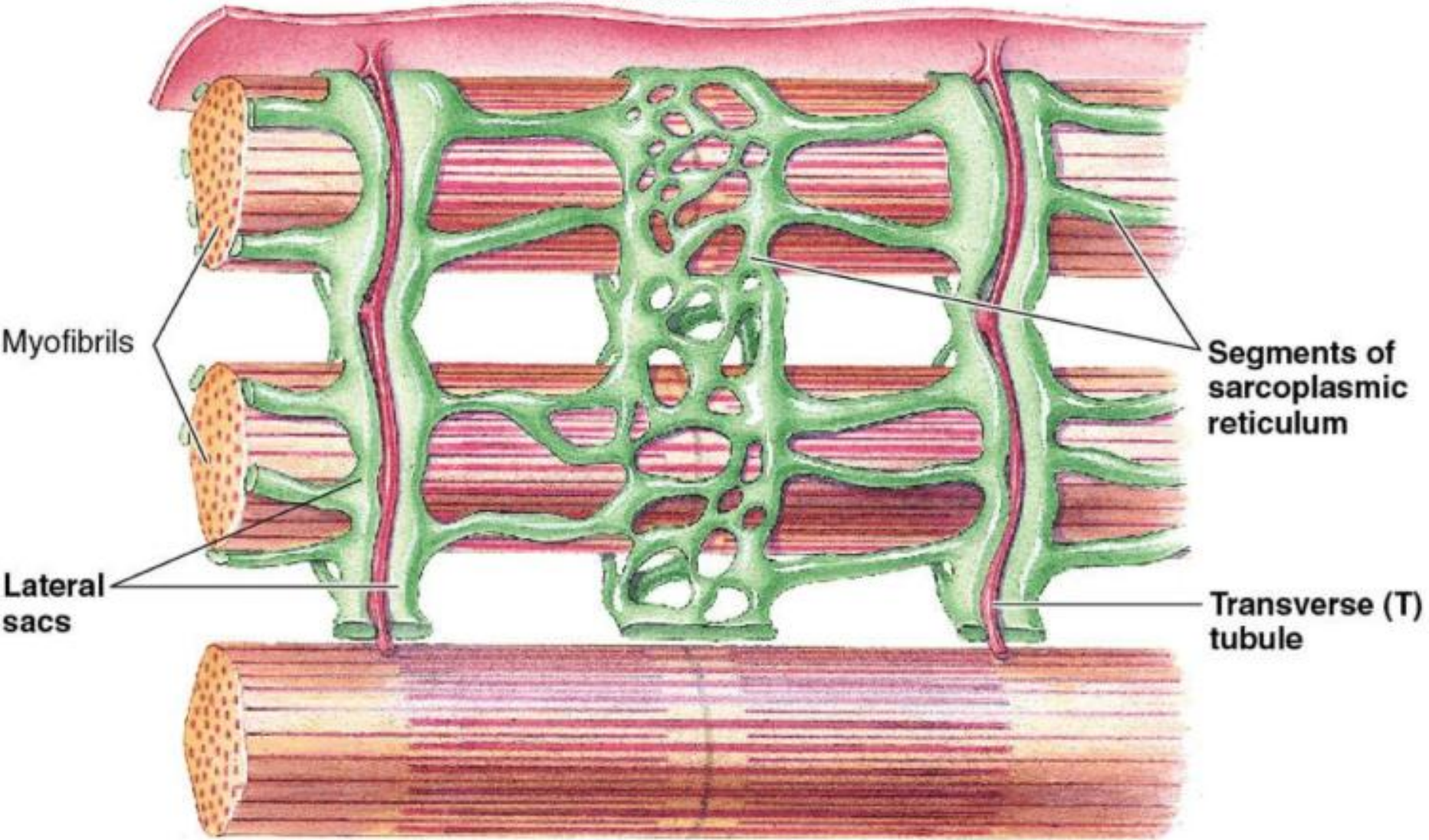


(b) Myosin binding sites exposed; muscle can contract





Surface membrane of muscle fiber

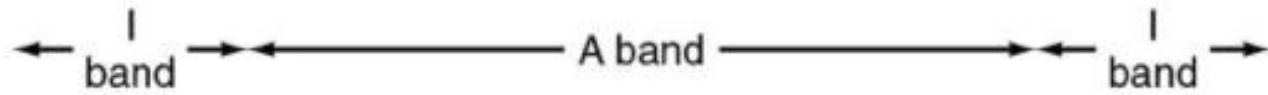


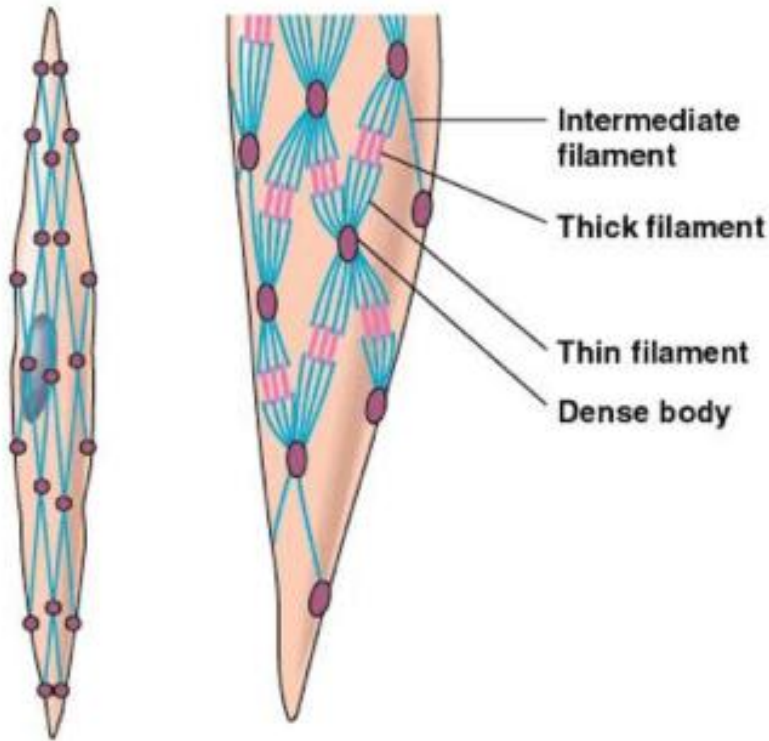
Myofibrils

Lateral sacs

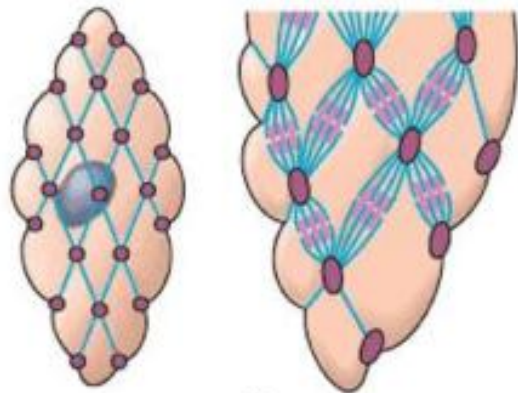
Segments of sarcoplasmic reticulum

Transverse (T) tubule



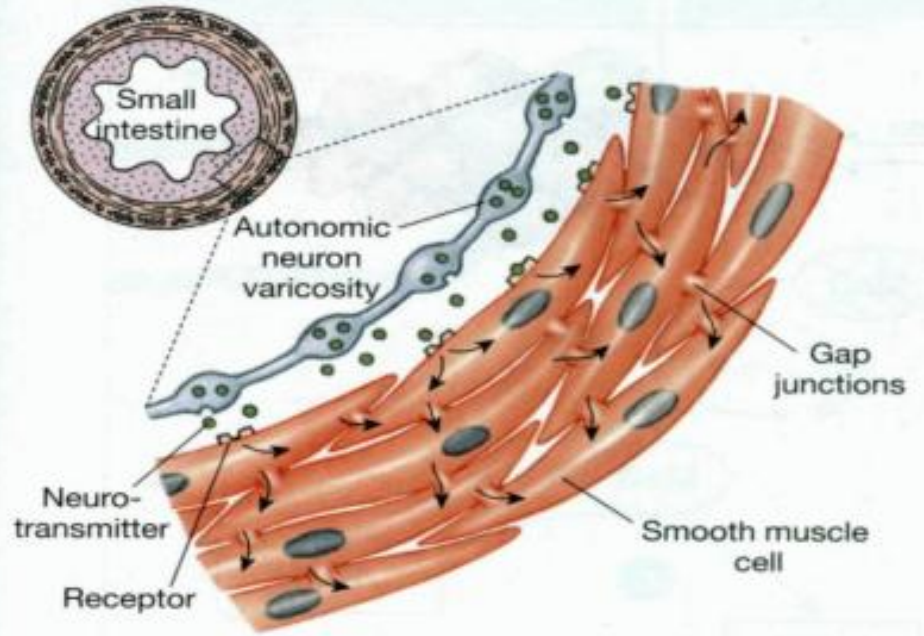


(a) relaksasi



(b) kontraksi

(a) **Single-unit smooth muscle** is connected by gap junctions and the cells contract as a single unit.



(b) **Multi-unit smooth muscle cells** are not electrically linked and must be stimulated independently.

