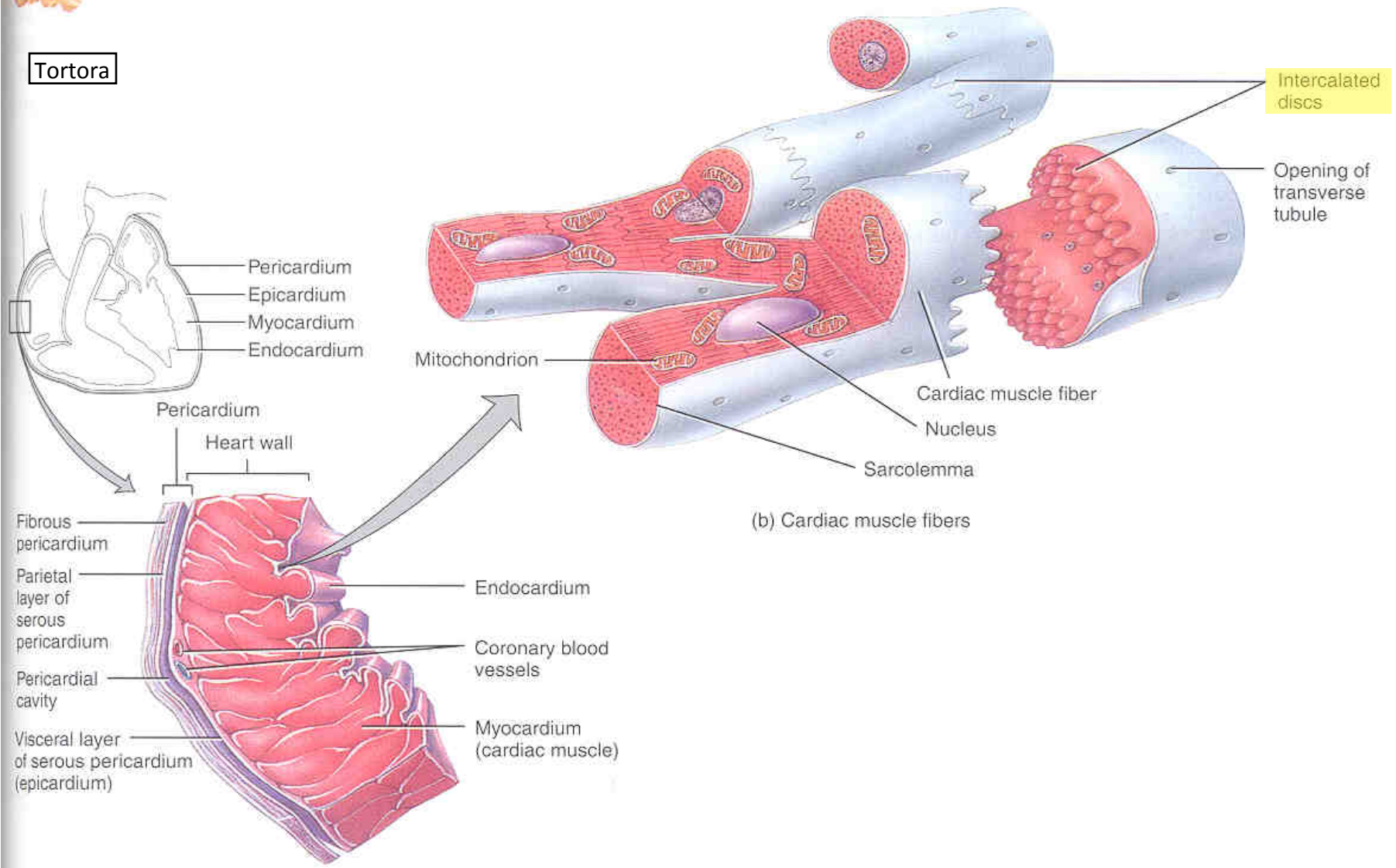


Figure 15.2 Pericardium and heart wall.

The pericardium is a sac that surrounds and protects the heart.

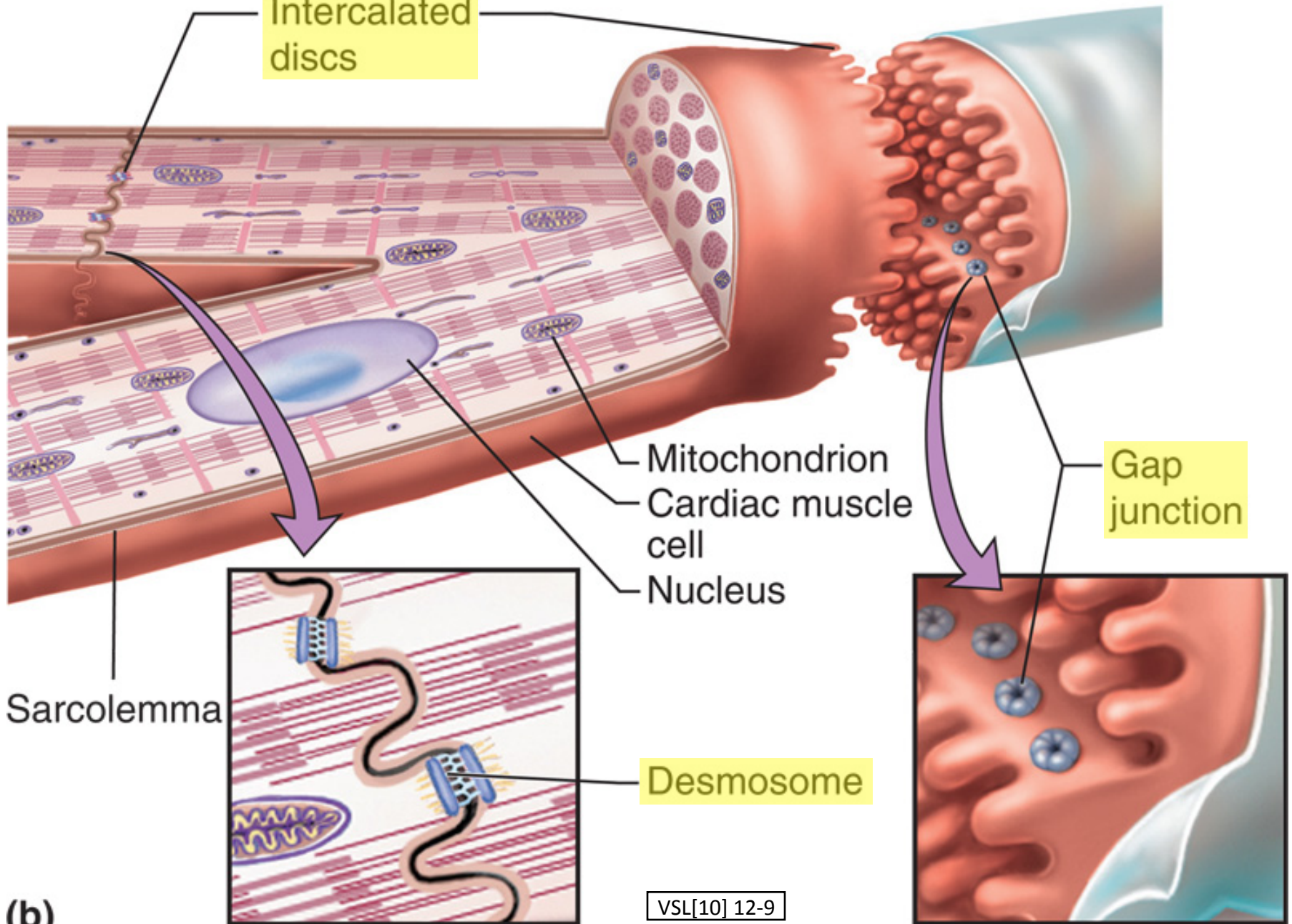
Tortora



(a) Portion of pericardium and right ventricular heart wall showing the divisions of the pericardium and layers of the heart wall

(b) Cardiac muscle fibers

Intercalated discs

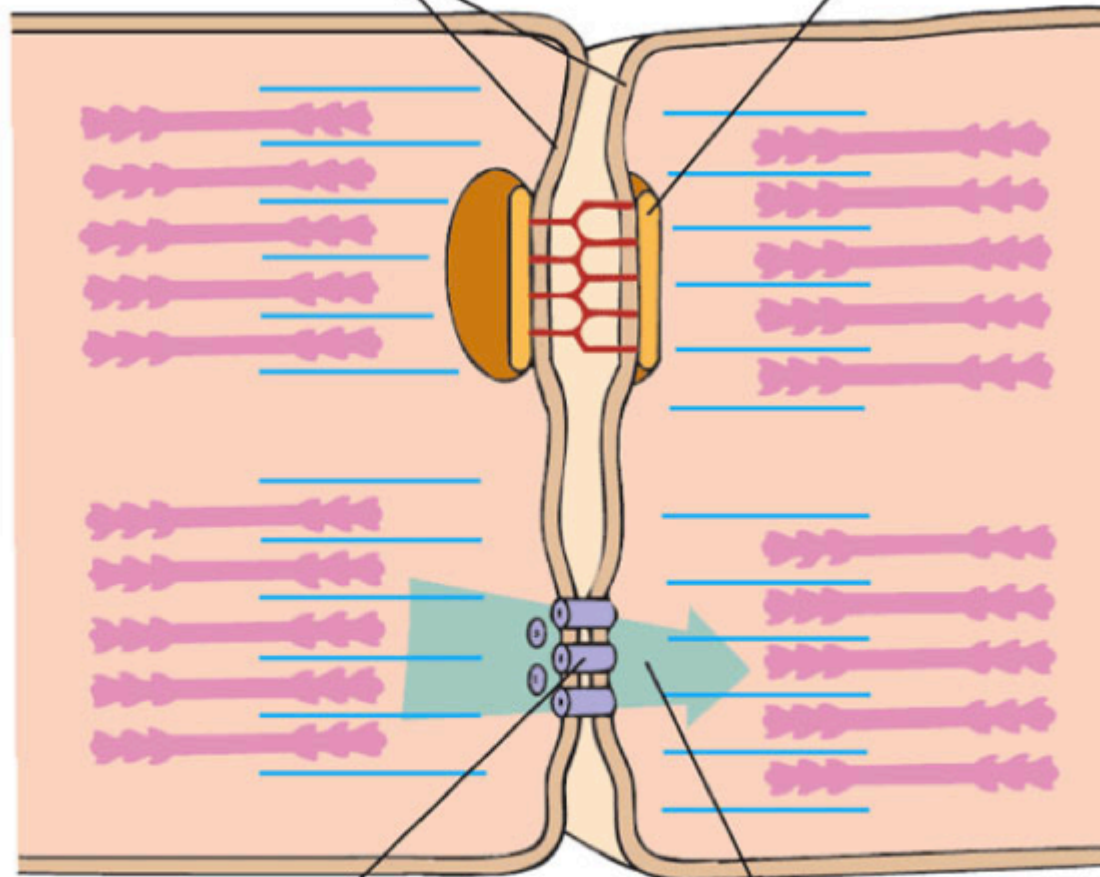


(b)

VSL[10] 12-9

Plasma membranes of adjacent cardiac muscle fibers

Desmosome



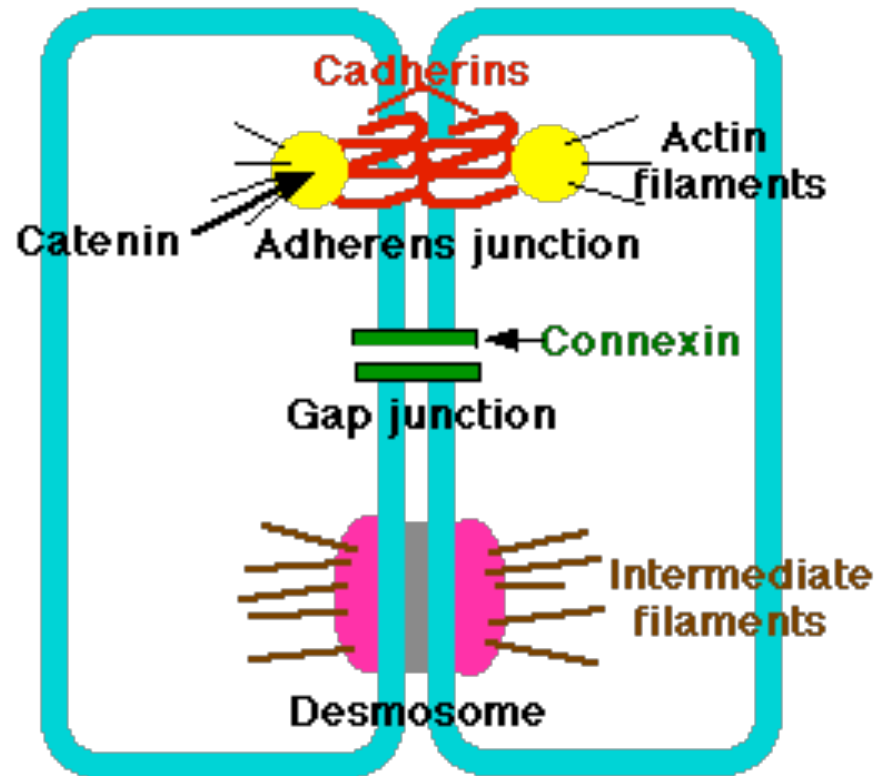
Gap junction

Action potential

Intercalated disc

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Holds cells
together at ends



Holds cells together at
ends and sides

Three-dimensional view of desmosome

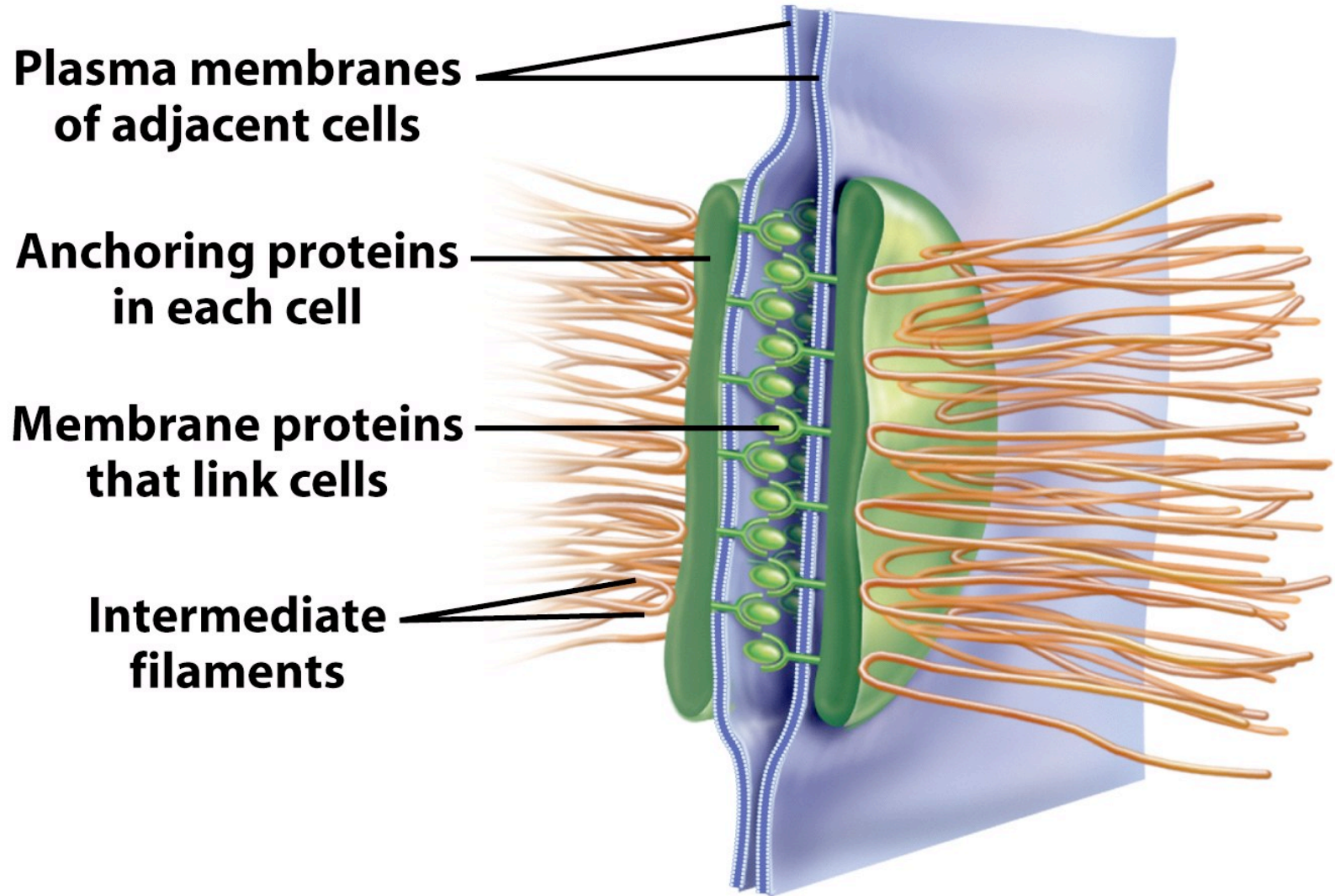
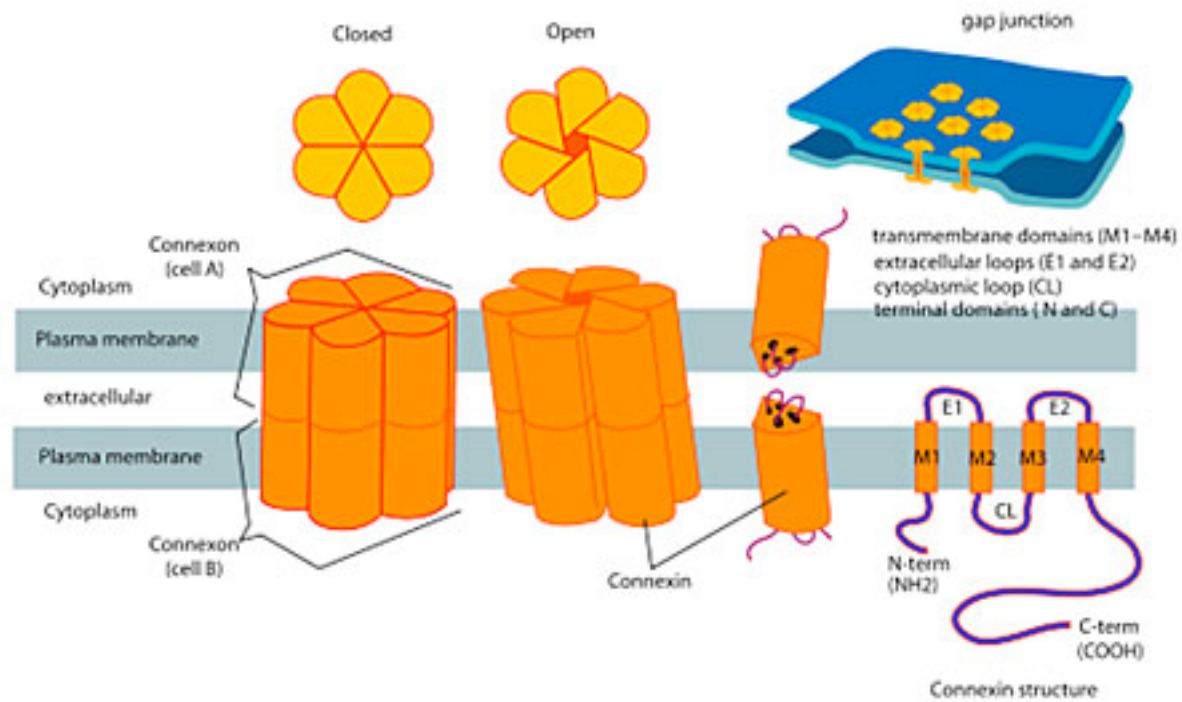
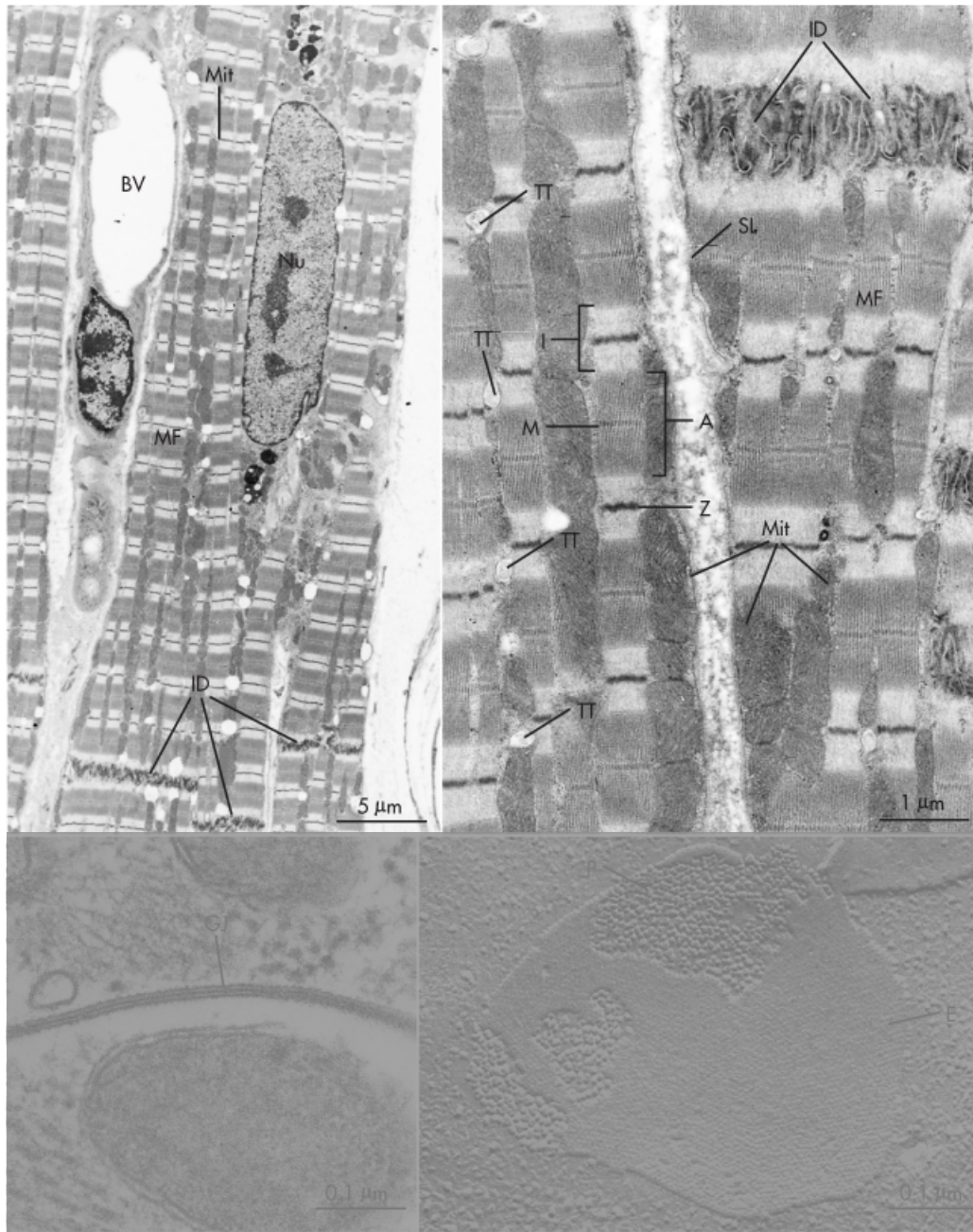


Figure 8-10b Biological Science, 2/e

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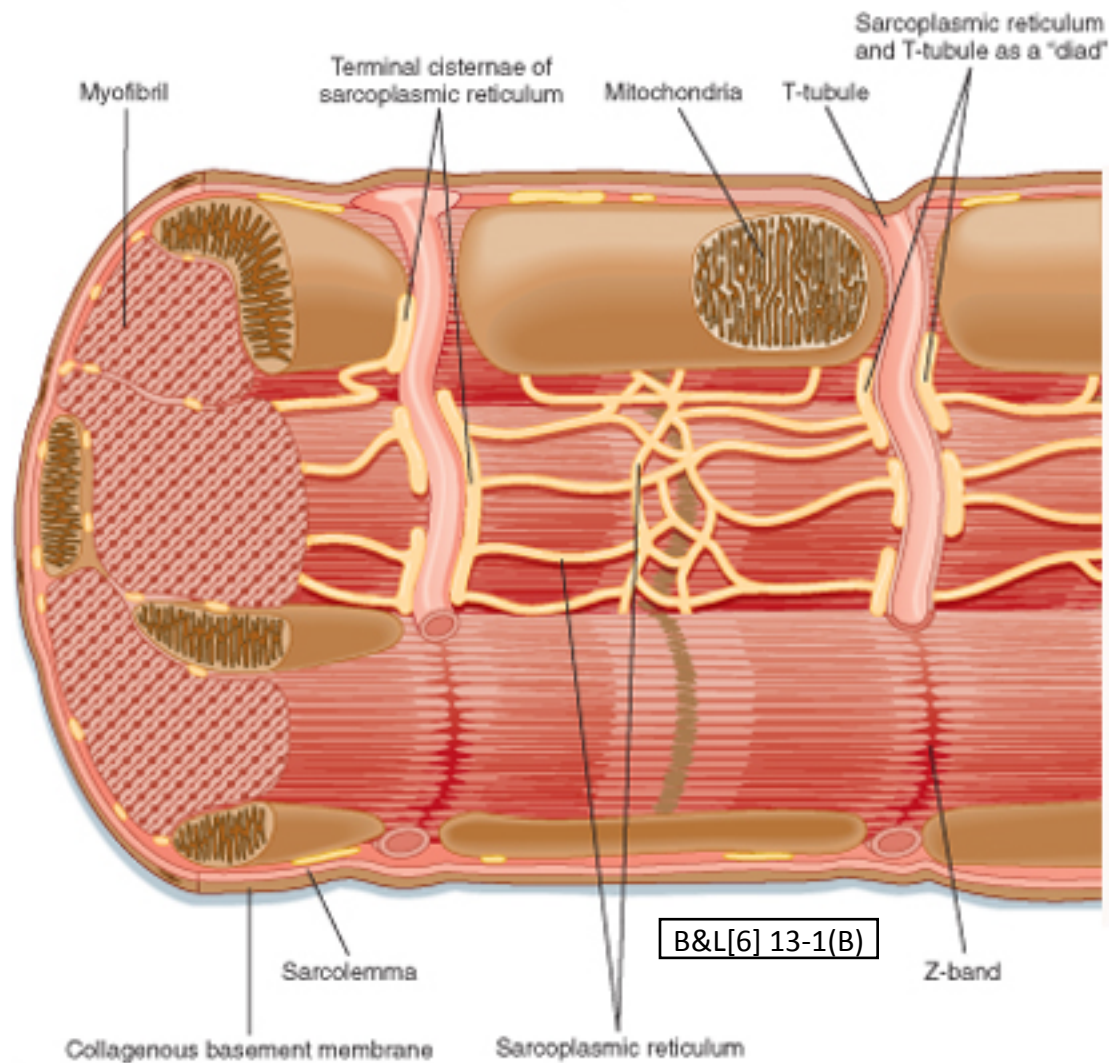


Figure 13-1 B, Schematic representation of the organization of a sarcomere within a cardiac muscle cell. (part B, redrawn from Fawcett D, McNutt NS: J Cell Biol 42:1-45, 1969.)

END

Video 1, Module 5