

Figure 7.23x Sea urchin sperm

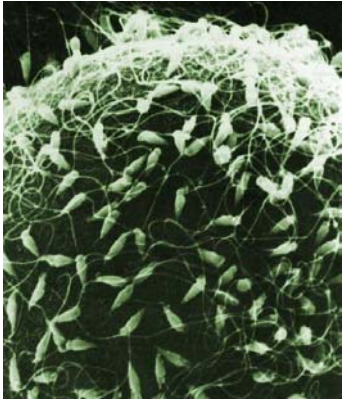
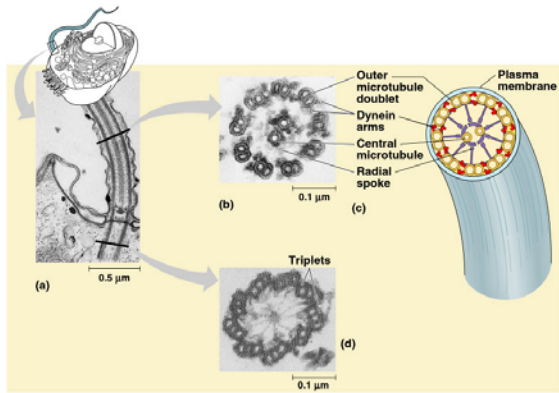
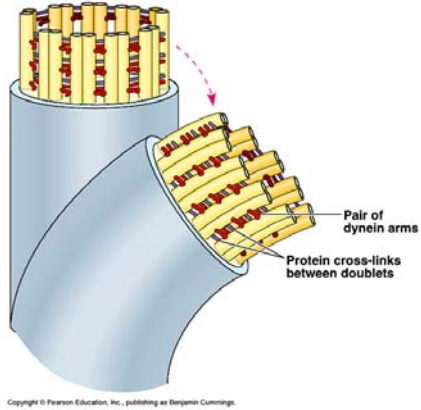


Figure 7.24 Ultrastructure of a eukaryotic flagellum or cilium



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Figure 7.25 How dynein "walking" moves cilia and flagella



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Figure 7.23 A comparison of the beating of flagella and cilia

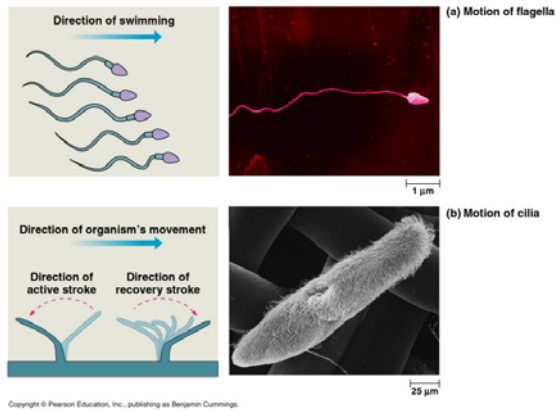


Figure 7.22 Centrosome containing a pair of centrioles

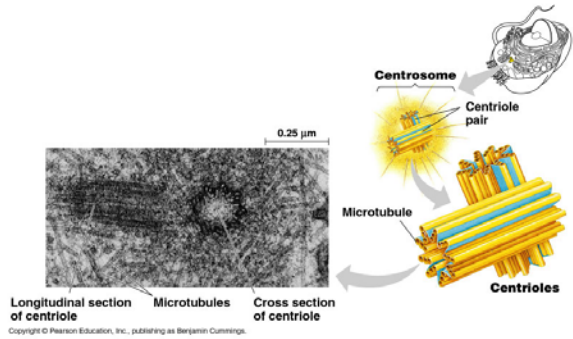


Figure 7.26 A structural role of microfilaments

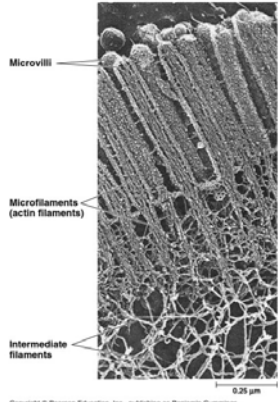


Figure 7.29 Extracellular matrix (ECM) of an animal cell

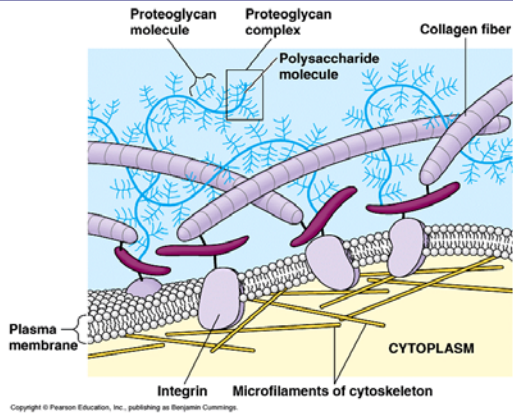


Figure 7.21 Motor molecules and the cytoskeleton

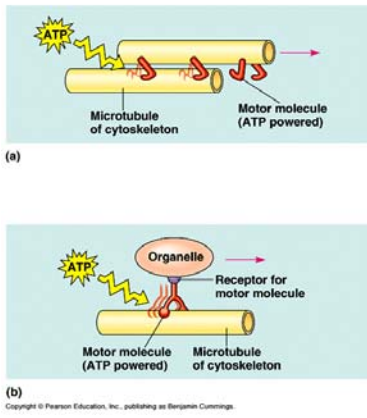
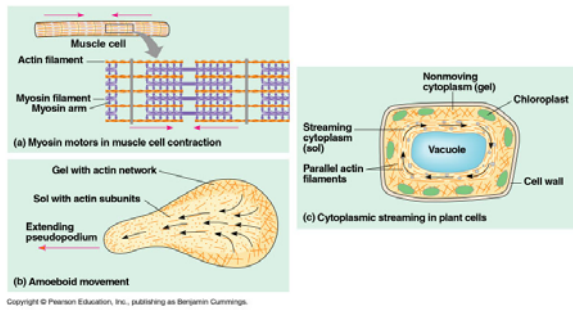


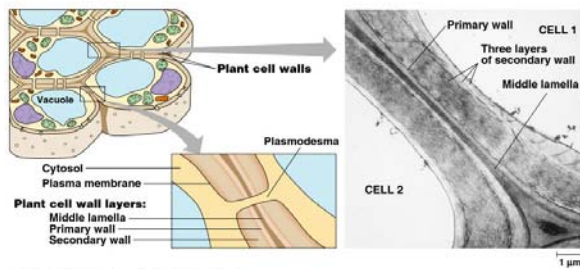
Figure 7.27 Microfilaments and motility



PLANT CELL CONNECTION

- **PRIMARY CELL WALL/CELLULOSE AND HEMICELLULOSE**
- **DEVELOPS FIRST**
- **SECONDARY CELL WALL/CELLULOSE AND LIGNIN AND MADE UP OF 3 LAYERS**
- **PLASMODESMATA**

Figure 7.28 Plant cell walls

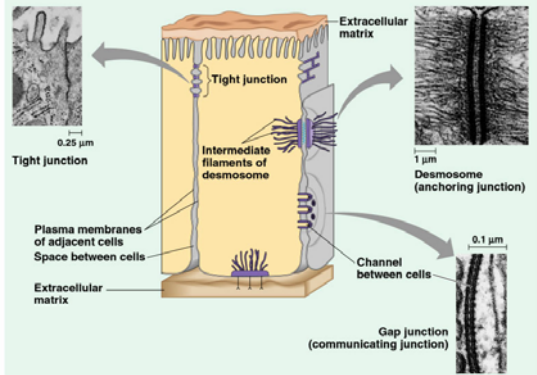


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LINKS BETWEEN CELLS

- **DESMOSOMES/THESE ARE PROTEIN CONNECTIONS**
- **HOLD CELL MEMBRANES TOGETHER**
- **VARIOUS KINDS OF JUNCTIONS**
- **HOLD CELL MEMBRANES TOGETHER/COMMUNICATION**

Figure 7.30 Intercellular junctions in animal tissues



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Figure 7.31 The emergence of cellular functions from the cooperation of many organelles