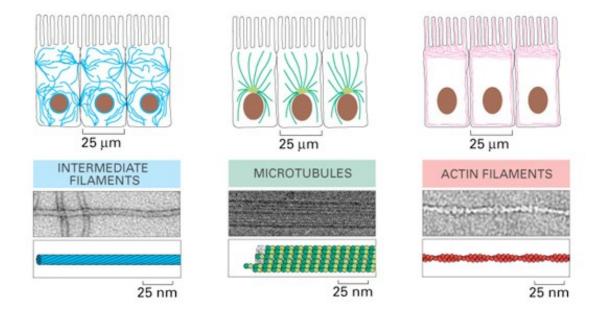
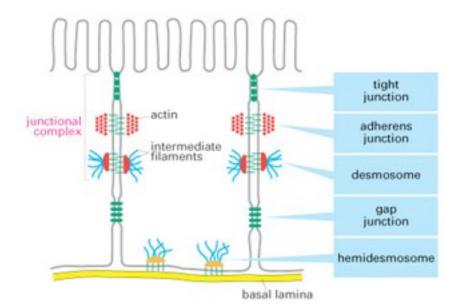
The Cytoskeleton

What the cytoskeleton does

Three types of protein filaments

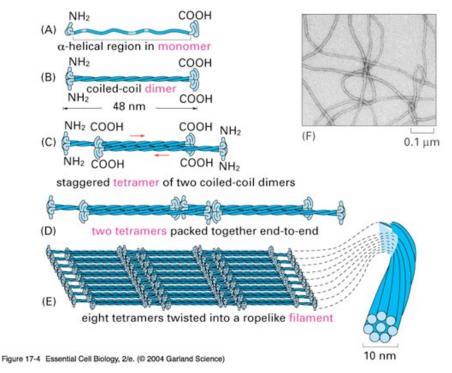


The cytoskeleton and cell-cell junctions



Intermediate filaments

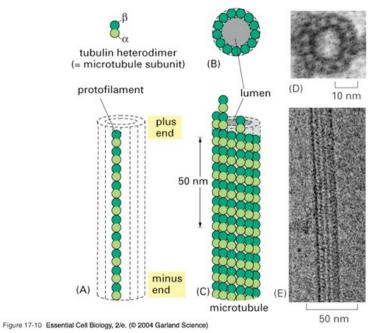
Structure of intermediate filaments



Classes of intermediate filaments Functions of intermediate filaments

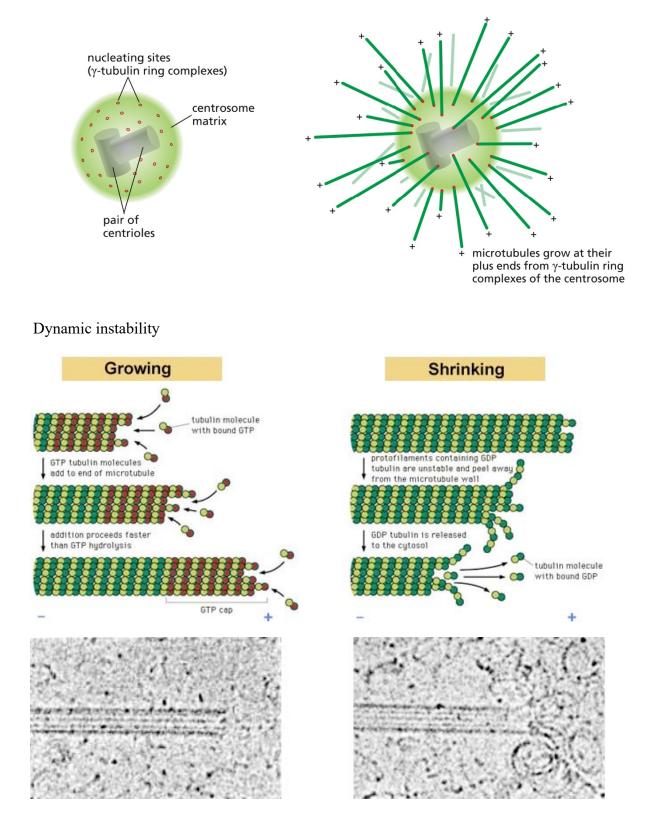
Microtubules

Structure of microtubules



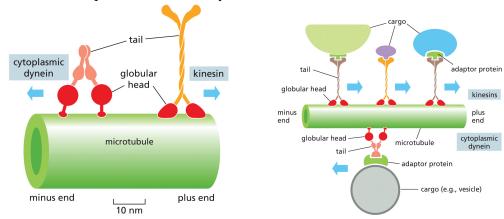
Microtubules assembly and disassembly

The centrosome: the major microtubule-organizing center in animal cells

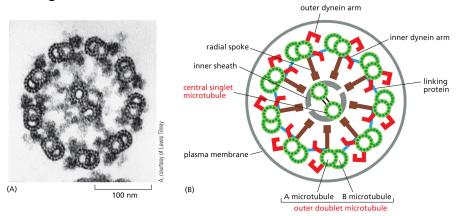


Functions of microtubules

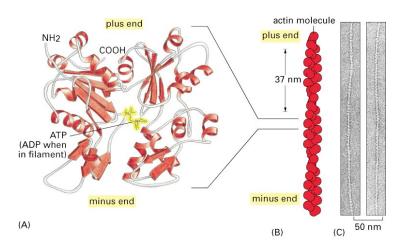
Microtubule motor proteins kinesins, dyneins



Organelles move along microtubules Cilia and flagella:



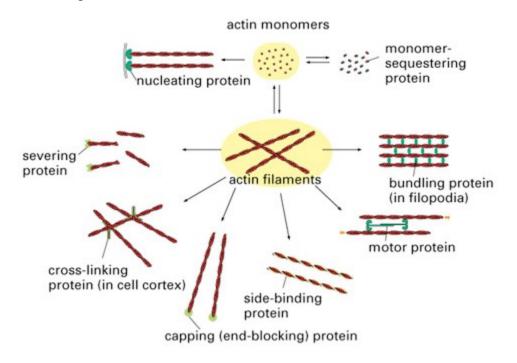
Actin filaments



Structure of actin filaments

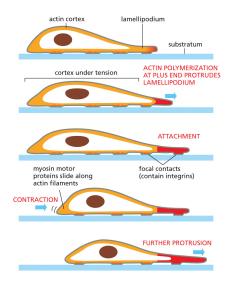
Actin and tubulin polymerize by similar mechanisms

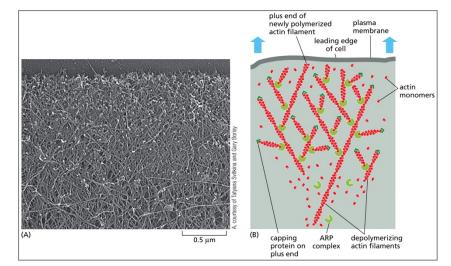
The functions of proteins that bind to actin



The cell cortex

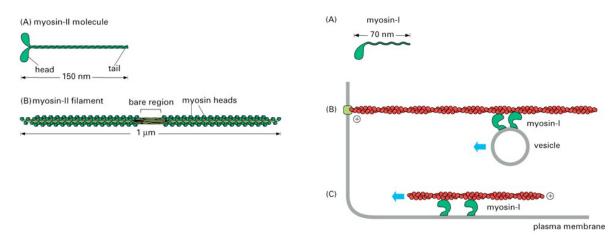
How cells crawl



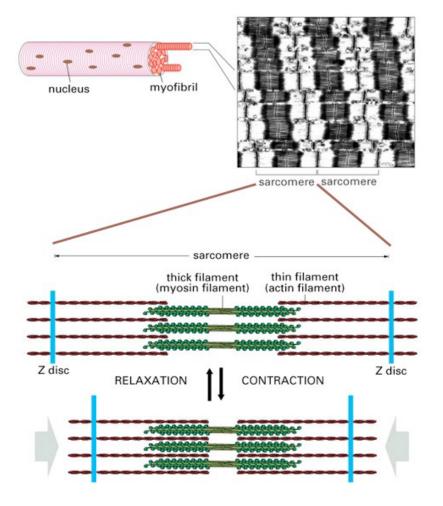


a top-down view of a lamellipodium

Actin and myosin form contractile structures



Muscle contraction



How myosin "walks"

