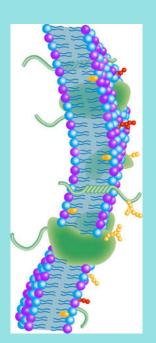
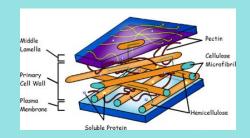
CELL MEMBRANE

- size: extremely thin
- found in both plant and animal cells
- functions: controls movement in and out of the cell, important in cell recognition, bind hormones and neurotransmitters (receptor cites), in animal cells it can fold to form micro-villi to provide a larger area for absorption, helps cells form tissue



CELL WALL

- size: 10-80 nm
- found in plant cells
- functions: to prevent cell from bursting, mechanical strength to plant as a whole, allow water to pass through it



VACUOLE

- size: relatively large
- found in both plant and animal cells
- functions: stores water, ions, sugars, and pigments, gives turgidity to the cell



CENTRIOLES + MICROTUBULES

- size: 200 nm in diameter (centrioles) 25mm in diameter (microtubules)
- found in both plant and animal cells
- functions: centrioles organize
 microtubules to form spindle fibers during
 nuclear division, modified centrioles (basal
 bodies) organize micotubules to form cilia
 and flagella, microtubules form part of the
 cyoskeleton (internal skeleton of the cell)
 which provides support and structure,
 microtubules serve as a scaffold for the
 movement and postioning of orgnelles

