Cell Membrane

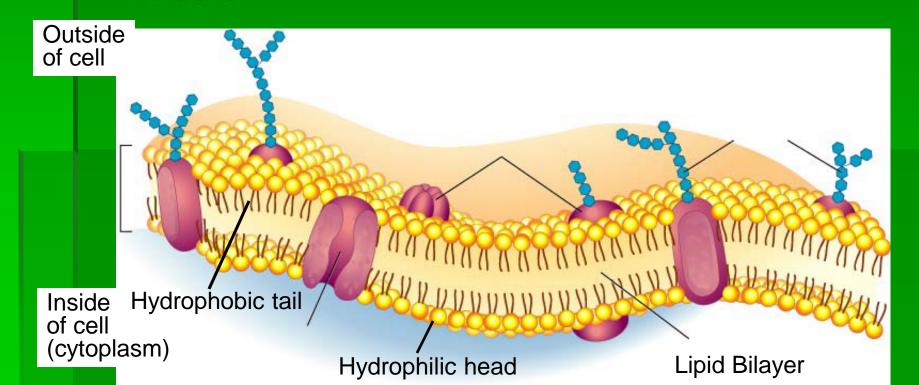
Chapter 7-3

Function

- Allows certain substances in and out of the cell
- Takes in food
- Eliminates waste
- Semipermeable

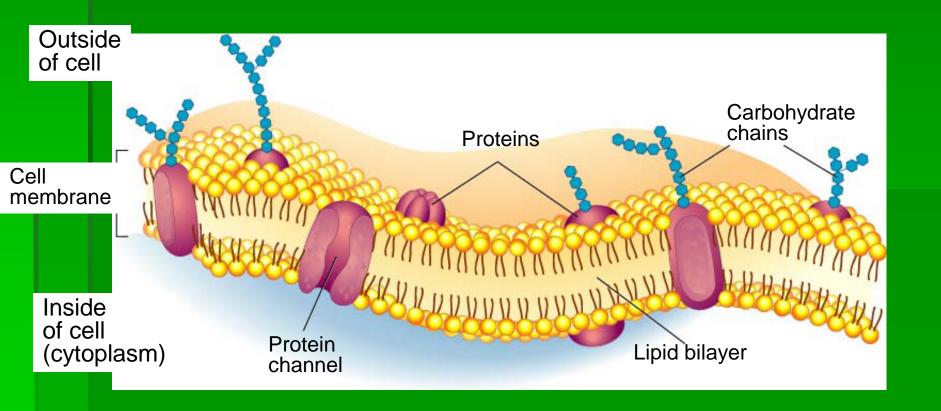
Structure

- Lipid bilayer two layers of lipids
 - Hydrophilic head likes water, is on the outside
 - Hydrophobic tail doesn't like water, is in the middle

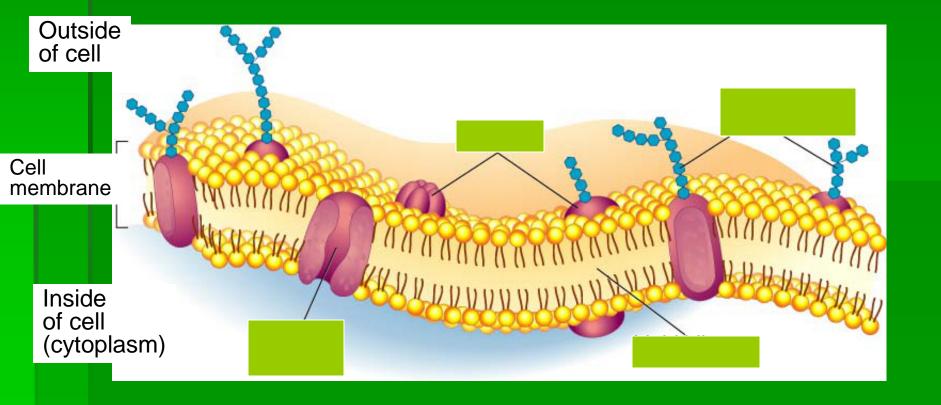


Structure

- Protein channels transport substances
- Carbohydrate molecules id tags

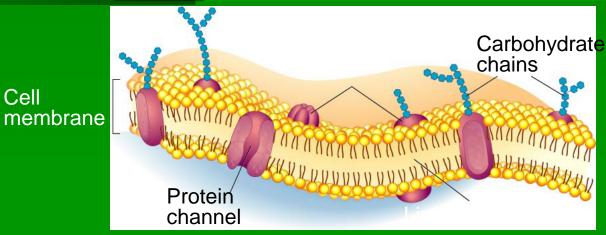


Structure



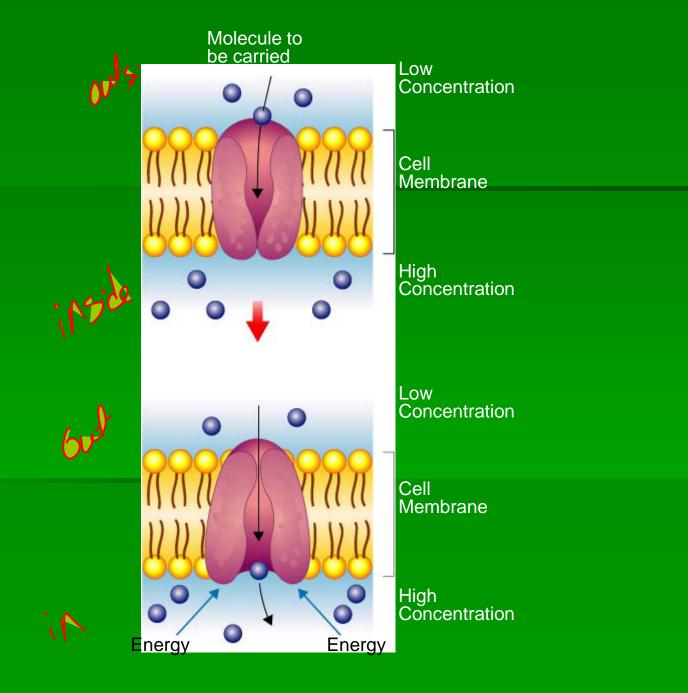
Facilitated Diffusion

- Diffusion with help
- Protein channels
 - Tunnel through membrane
 - Allow a specific molecule to pass through
 - Fast and specific, doesn't require energy
 - Check out this video



Active Transport

- Substance moved against the concentration gradient
- Area of [low] to [high]
- Requires energy
- Special "pumps" in cell membrane
- Sodium/potassium pumps pump in K+ ions and pump out Na- ions
- Check out this <u>video</u>



Membrane Folding action

- Endocytosis-- membrane folds around and engulfs small particle
- Makes a vacuole
- Phagocytosis cell engulfs a large particle
- Exocytosis cell spits out a particle
- Check out this <u>video</u>