

Cell Transport Notes

Concentration

- How much stuff is in a certain amount of water
- Scientists use [] as an abbreviation for concentration [H₂O] means “concentration of water”

Passive Transport

- Movement of molecules without using ATP
- 3 types
 - Simple Diffusion
 - Movement of molecules from [High] to [Low]
 - Rate of diffusion depends on: temperature, charge, size of molecules
 - Facilitated Diffusion
 - Cell uses proteins to help molecules move through the membrane
 - Proteins change shape to let molecule through
 - Osmosis
 - Movement of water across a membrane
 - Hypertonic-more stuff
 - Hypotonic-less stuff
- Cell Membrane
 - Lipid Bilayer moves around which makes it permeable
 - Hydrophilic molecules cannot pass through
 - Hydrophobic molecules can pass through

Active Transport

- Movement of molecules that requires ATP
- Moves molecules from [Low] to [High]
- 3 types
 - Ion Pumps
 - Move ions (charged atoms) from [Low] to [High]
 - Cotransport
 - Moves 2 materials at a time
 - Endocytosis
 - Moving materials into cell by folding the cell membrane