

Cellular Transport and Homeostasis Keystone Review

Organisms must maintain homeostasis which can be done through the Active and/or Passive Transport of materials into and out of the cell

Active Transport is the net movement of materials against the concentration gradient or the movement of large materials into or out of the cell

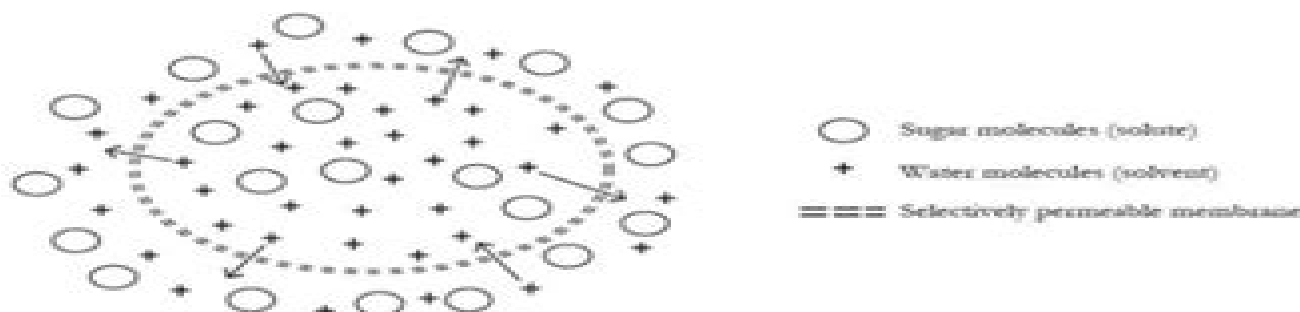
Active Transport includes all of the following types of transport:

1. Small molecule and ion transport by protein pumps (Na⁺/K⁺ pump)
2. Bulk transport by endo- or exocytosis (white blood cells engulfing harmful bacteria)

Passive Transport is the net movement of materials from a high concentration to a low concentration into and out of a cell

Passive Transport includes all of the following types of transport:

1. Diffusion (movement of CO₂ across the lipid bilayer into a plant cell)
2. Facilitated diffusion (movement of glucose through a protein channel)
3. Osmosis (movement of H₂O out of a cell)



1. Is the net movement of water into the cell or out of the cell? _____
2. Is this an example of active or passive transport? _____
3. What type of solution is the cell in: Hypo-, hyper-, isotonic? _____
Hypotonic solutions have less solute than solvent
Hypertonic solutions have more solute than solvent
Isotonic solutions have an equal amount of solute and solvent
4. When the cell has reached equilibrium and homeostasis is reached how many water molecules will be in the cell? _____

Keystone Homeostasis And Cell Transport Review Key

Camilla Rothe



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