

Movement across membranes

Diffusion, Osmosis, Active Transport



There are two ways in which substances can enter or leave a cell:

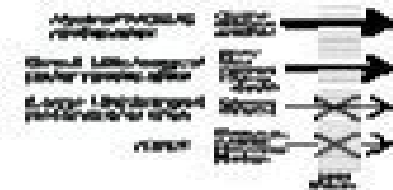
- 1) **Passive**
 - a) Simple Diffusion
 - b) Facilitated Diffusion
 - c) Osmosis (water only)
- 2) **Active**
 - a) Molecules
 - b) Particles

Diffusion

Diffusion is the net passive movement of particles (atoms, ions or molecules) from a region in which they are in higher concentration to regions of lower concentration. It continues until the concentration of substances is uniform throughout.

Some major examples of diffusion in biology:

- Gas exchange at the alveoli — oxygen from air to blood, carbon dioxide from blood to air.
- Gas exchange for photosynthesis — carbon dioxide from air to leaf, oxygen from leaf to air.
- Gas exchange for respiration — oxygen from blood to tissue cells, carbon dioxide in opposite direction.
- Transfer of transmitter substance — acetylcholine from presynaptic to postsynaptic membrane at a synapse.
- Osmosis — diffusion of water through a semipermeable membrane.



High Diffusion Rate: short distance, large surface area, big concentration difference (Fick's Law).
High temperatures **increase** diffusion; large molecules **slow** diffusion.

Facilitated Diffusion

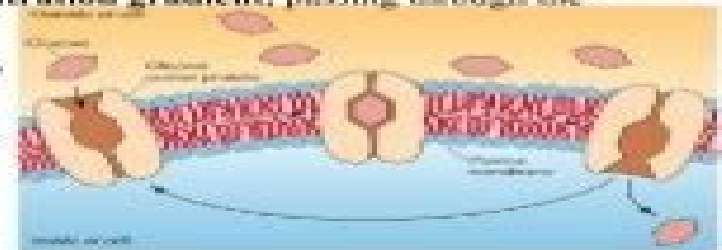
This is the movement of **specific molecules down a concentration gradient**, passing through the membrane **via a specific carrier protein**. Thus, rather like enzymes, each carrier has its own shape and only allows one molecule (or one group of closely related molecules) to pass through.

Selection is by size; shape; charge.

Common molecules entering/leaving cells this way include glucose and amino-acids.

It is **passive** and requires no energy from the cell.

If the molecule is **changed on entering the cell** (glucose + ATP → glucose phosphate + ADP), then the **concentration gradient of glucose** will be kept high, and there will a steady one-way traffic.



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NewPath Learning

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