

Movement across membranes

Diffusion, Osmosis, Active Transport



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

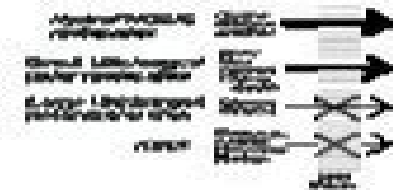
- 1) **Passive**
 - a) Simple Diffusion
 - b) Facilitated Diffusion
 - c) Osmosis (water only)
- 2) **Active**
 - a) Molecules
 - b) Particles

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

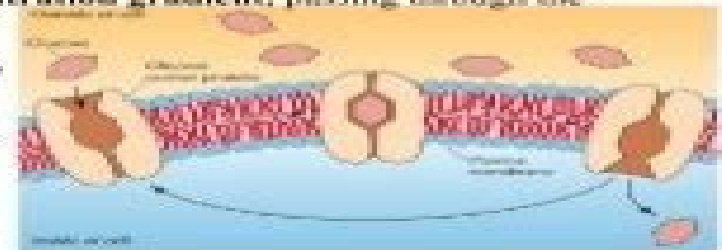
This is the movement of **specific molecules down a concentration gradient**, passing through the membrane **via a specific carrier protein**. Thus, rather like enzymes, each carrier has its own shape and only allows one molecule (or one group of closely related molecules) to pass through.

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.



Diffusion Osmosis Active Transport Biologymad

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Osmosis and Diffusion Science Learning Guide NewPath Learning, 2014-03-01 The Osmosis Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Cells The Basic units of Life Cell Membrane and Cell Transport Diffusion Diffusion in the Lungs Osmosis The Diffusion of Water Passive Transport Active Transport Osmosis in Plant Cells and Osmosis in Animal Cells Aligned to Next Generation Science Standards NGSS and other state standards

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