

Biophysics

Fifth lecture

Cellular membranes (part2)

Second stage

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Cell membranes

1- Transport through cell membranes

The phospholipid bilayer is a good barrier around cells, especially to water soluble molecules. However, for the cell to survive some materials need to be able to enter and leave the cell.

There are 4 basic mechanisms:

- 1- diffusion and facilitated diffusion
- 2- osmosis
- 3- active transport
- 4- bulk transport

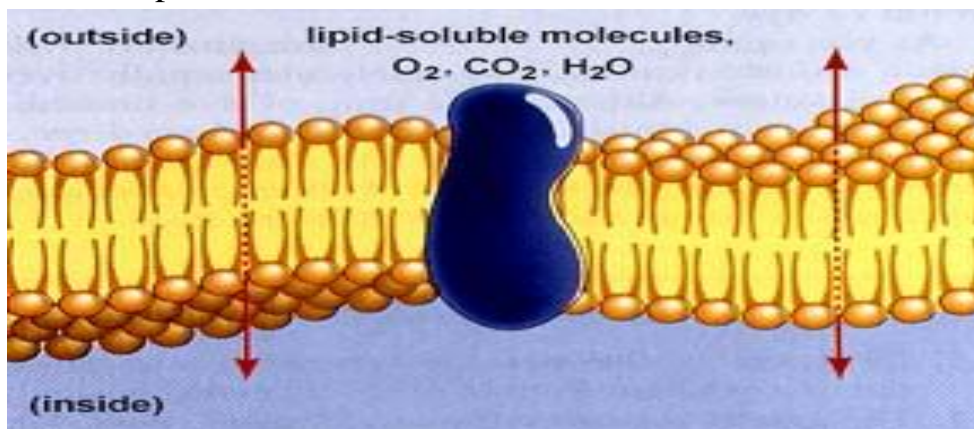
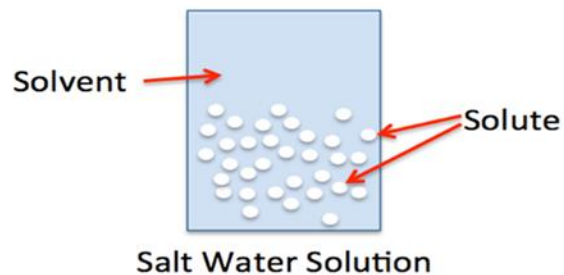


Fig1. Cell membranes



Parts of a Solution: Solute and Solvent