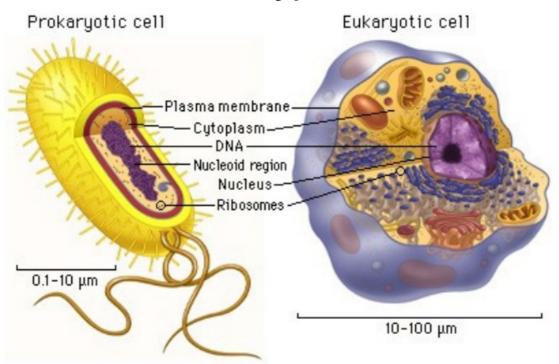
Cell Membrane

All cells have cell membranes!!!

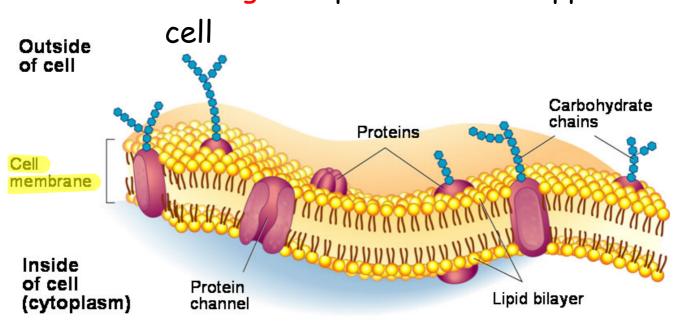
Two Basic Types of Cells



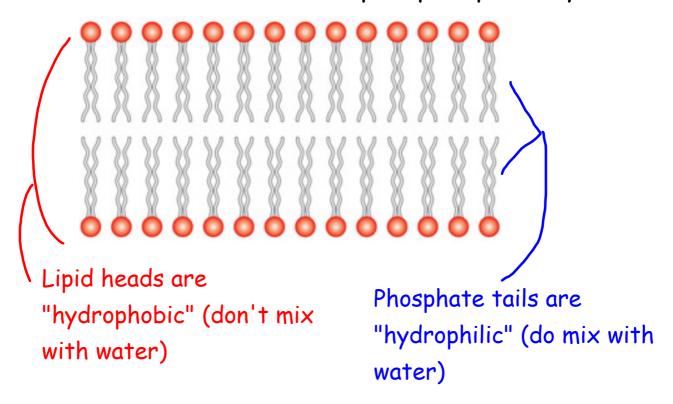
Cell Membrane

Function: Regulates materials entering and

leaving cell; protests and supports



Cell membrane is made of a "phospholipid bilayer"



This structure keeps the inside of the cell separate from the outside and makes the membrane

"semi-permeable" (only certain stuff gets in or out)

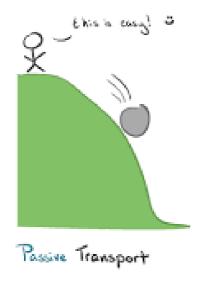
Passive Transport (2 Types)

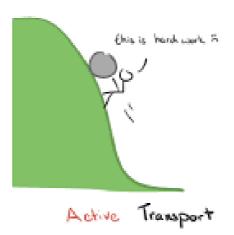
- 1. Diffusion
- 2. Facilitated Diffusion
 - a. Osmosis: An Example of Facilitated Diffusion



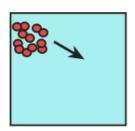


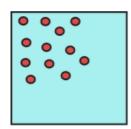
Passive Transport does NOT require cellular energy to move materials across cell membrane!

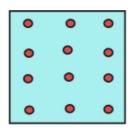




Diffusion

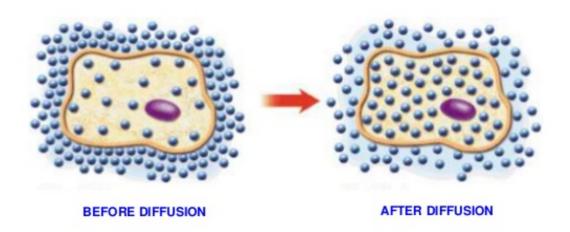






Particles (solute) moves from areas of high concentration to areas of low concentration until equilibrium is reached

Diffusion Across Cell Membranes



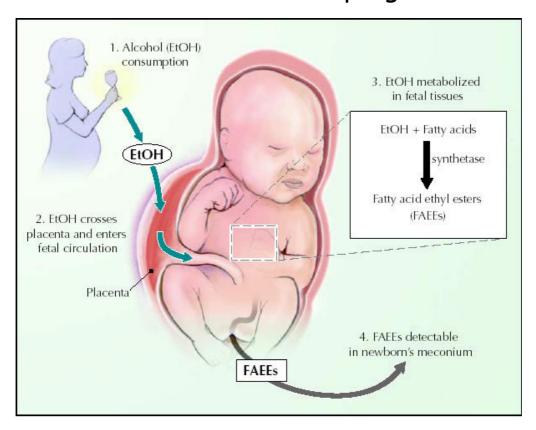
Small hydrophobic stuff can do this!

Lakshmi Sharma Diffusion - Cell membranes and Transport

Ex: O_2 , CO_2 , ions, ethanol

The placenta (where fetus gets nutrients) is also covered by a semi-permeable membrane

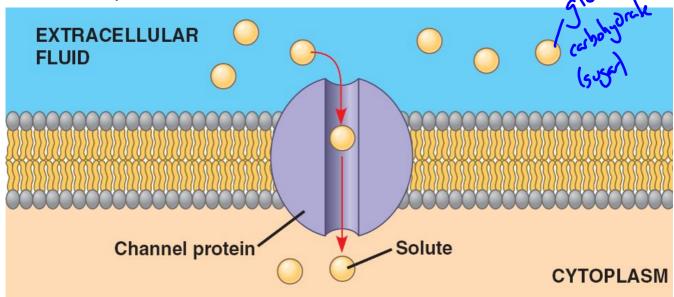
This is how a fetus can be exposed to alcohol if the mother drinks while she is pregnant.



Facilitated Diffusion

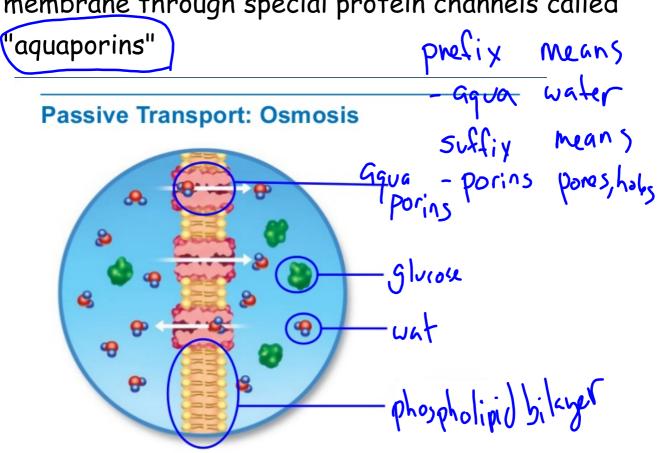
Diffusion across the cell membrane with the help of

channel proteins.



Osmosis

The facilitated diffusion of WATER across the cell membrane through special protein channels called



October 13, 2016 10-13-16.notebook

SALT SUCKS!

