Source: |KBhBIO101CellMembraines|

1 | Cell Membrane Protean Transports

1.1 | Simple Diffusion

Due to the wonderful nature of ENTROPY!!!, things just tend to spread out from high to low concentrations.

1.2 | Passive diffusion

- · Passive... Passive Diffusion: Non-Polar things simply "fall in" in the direction of chemical gradient
- · Facilitated Diffusion: polar molecules selectively get through protean channels
- · Osmosis: facilitated diffusion of water through a membrane

Quick ad break for some terms on Osmosis

- Isotonic => inside and outside have the same level of "osmolarity": probablility for osmosis to happen through a semipermiable membrane
- Hypertonic => inside has less osmolarity than the outside: water/other elems will flow out of the cell
- Hypotonic => outside has less osmolarity than the inside: water/other elems will flow into the cell

1.3 | Active diffusion

ATP shepherds elements in

1.4 | Bulk transport

- **Phagocytosis** => take a piece of the membrane with you to form a vesticle to introduce large solid elements, recycling the membrane after done "cell eating"
- **Pinocytosis** => take a piece of the membrane with you to form a vesticle to introduce large area of the "outside" in fluid and solid and all, recycling the membrane after done "cell drinking"
- **Endocytosis** => Phagocytosis + Pinocytosis
- Extocytosis => opposite of endocytosis