Plasma Membrane

Jobs: 1. barrier
2. Transport
3. Signaling
4. site of enzyme attachment
5. site of cytoskeleton attachment
6. cell signaling

W. Pfeff 1st worked on membrane permeability + osmosis

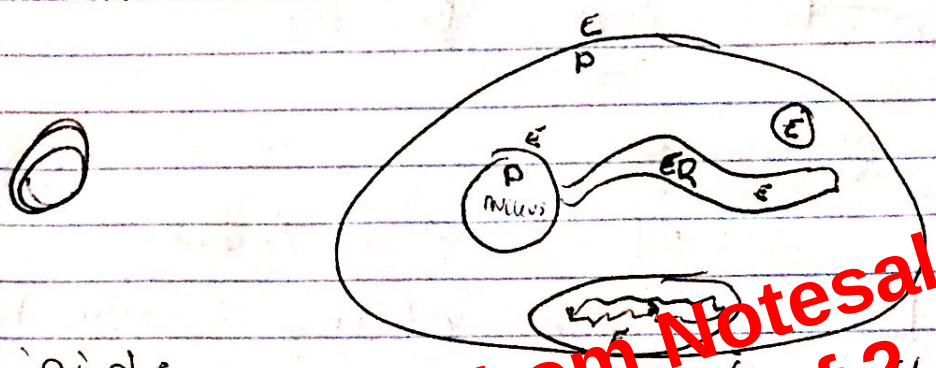
Solvent = water Solve = things in water

Concentration gradient

always move from high con. to low con.

Gorter + Grendel - discovered phospholipid bilayer

~~tooth~~



Proteins in E-Space are glycosylated (glycoprotein)

Lipids are ~~part~~ in cell membrane + maintain the fluidity added to anything

Glycosylated = sugars ~~on outside of membrane~~

Polar / charged molecules can't pass lipids by layers

cholesterol ~~maintains membrane fluidity reduces membrane fluidity~~ reduces membrane permeability + increases the barrier function

unsaturated fats increase fluidity of membrane

lipids can move in 3 ways:

1. spinning
2. move laterally in the membrane
3. the rarely flip-flop from E-layer to P-layer or vice versa - almost always requires the help of an enzyme such as flipases, flopases, or scrambalases

E-layer + P-layer have diff. charges so lipids on either side must be regulated