Source: ⟦KBhBIO101StructuresOfLipids⟧

1 | **Cell Membrane**

Fluid mosaic model

Some Phosopholipids connected as a "phosolipid bi-layer" (see ⟦KBhBIO101StructuresOfLipids⟧ structure

- Charged head
- Nonpolar tail

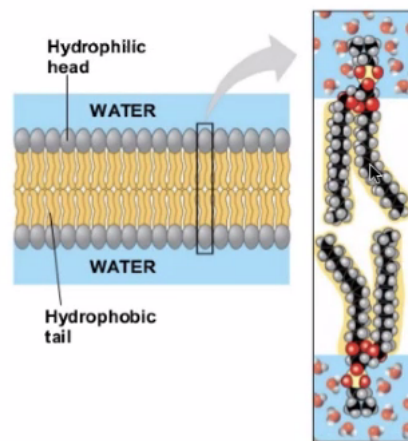So, head aligns and tail aligns, creating the basic structure of the membrane:

Figure 1: Screen Shot 2020-09-09 at 3.08.10 PM.png

Stuff in the membrane

Cholesterol

Helps cells communicate

Proteans

- Makes sure the right molecules gets in/out
- Nonpolar Oxygen + CO2 could easily get through
- Polar and charged molecules can't get through, unless…
- Channeled proteins let specific polar particles through

Cell Transport

How chemicals get in + out of the cell

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

Active diffusion

"Active transport": ATP shepherds elements in

"Bulk transport":

- Large item transport across the plasma membrane
- Transport vesicles attaches to membrane to receive elements
- Exocytosis and Endocytosis