

Source: [KBhBIO101StructuresOfLipids](#)

# 1 | Cell Membrane

## Fluid mosaic model

Some Phospholipids connected as a “phospholipid bi-layer” (see [KBhBIO101StructuresOfLipids](#) structure

- Charged head
- Nonpolar tail

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

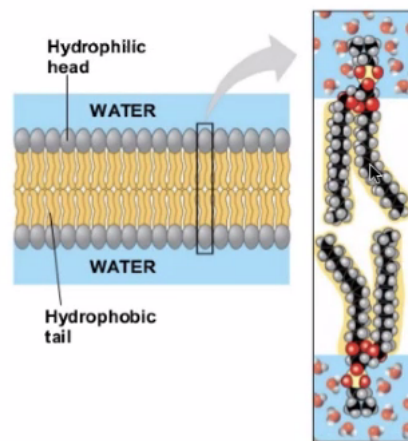


Figure 1: Screen Shot 2020-09-09 at 3.08.10 PM.png

## Stuff in the membrane

### Cholesterol

Helps cells communicate

### Proteins

- Makes sure the right molecules gets in/out
- Nonpolar Oxygen + CO<sub>2</sub> 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”: transport across the plasma membrane occurs by exocytosis and endocytosis.