

Source: [KBhBIO101StructuresOfLipids](#)

# 1 | Cell Membrane

## Fluid mosaic model

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

- Charged head
- Nonpolar tail
- So, connected
- Also includes...
  - Cholesterol
    - Cells communicate
  - Proteins
    - Makes sure the right molecules get 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 diffusion => nonpolar things simply “fall in”
    - Facilitated diffusion => polar molecules selectively get through protein channels
    - Active transport
      - ATP shepherds elements in
  - Bulk transport across the plasma membrane occurs by exocytosis and endocytosis.