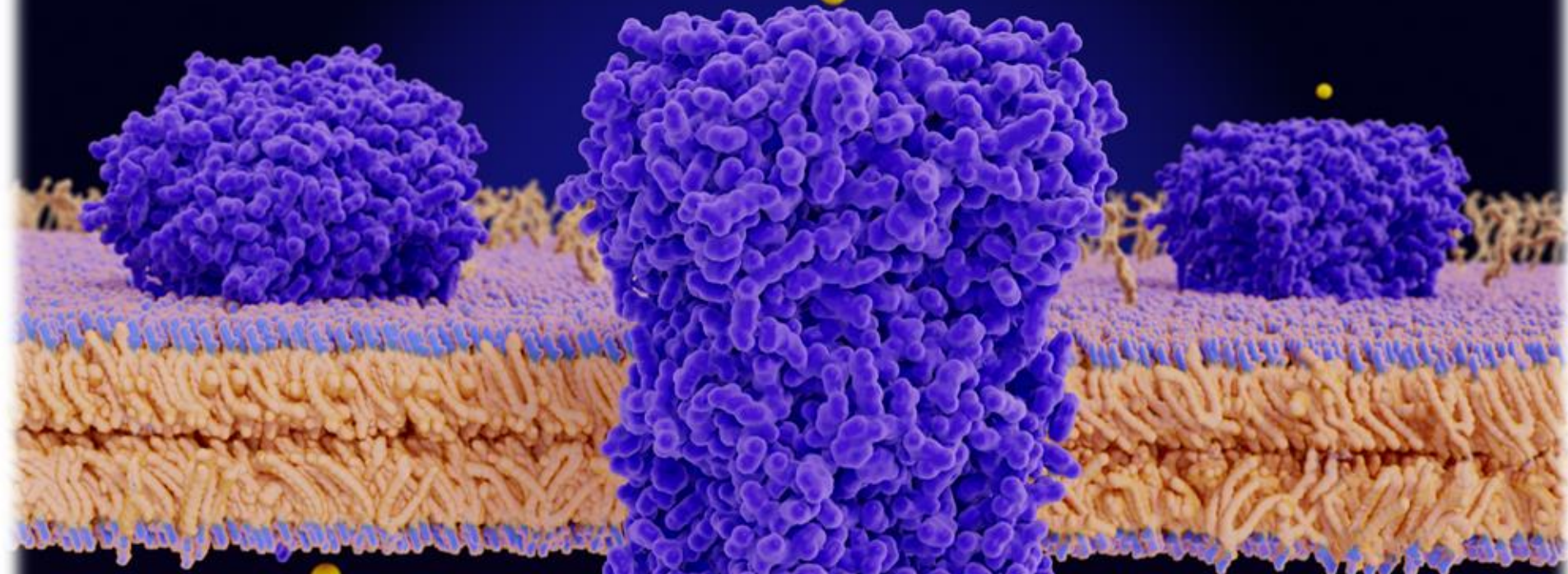


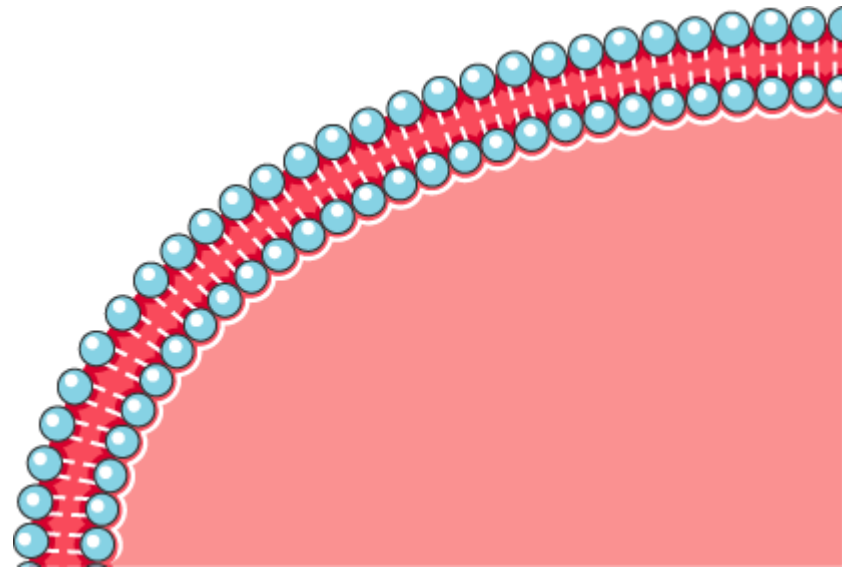
the **CELL**



MEMBRANE

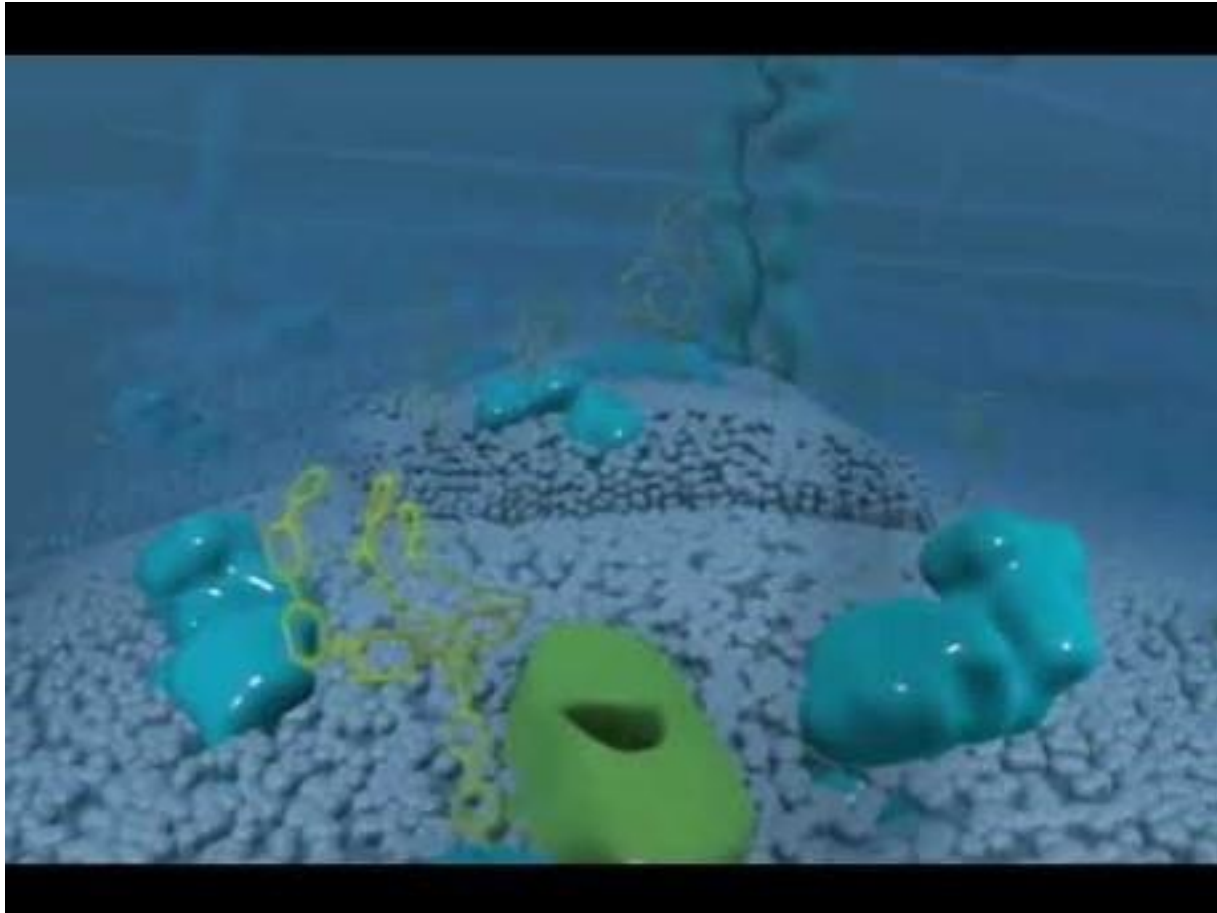
Cell Membrane

- AKA plasma membrane
- Remember: the cell membrane is a structure that surrounds ALL cells.
- The cell membrane maintains homeostasis in cells by controlling what enters and exits cells.
 - Homeostasis is stable internal conditions



Cell Membrane

Intro to the Cell Membrane Video Clip



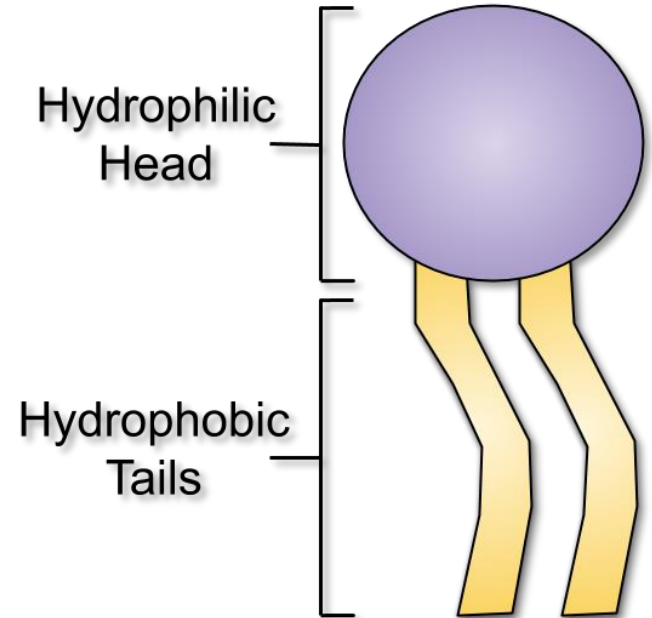
Link: <https://youtu.be/iAdrQVIZHZY>

Cell Membrane Structure

- The cell membrane is made of **phospholipids**

- Structure of a phospholipid:

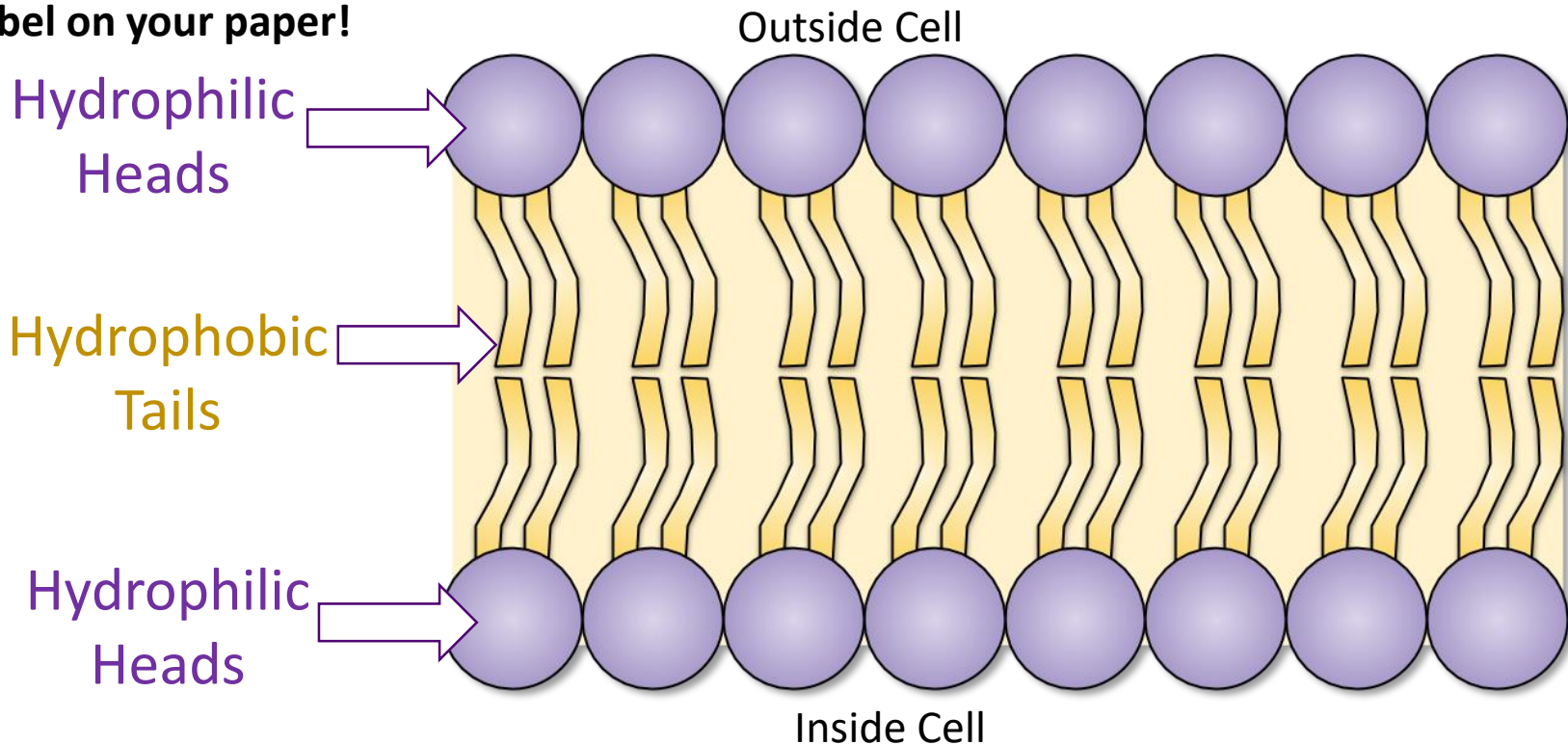
- Hydrophilic= water loving
- Hydrophobic= water fearing



Cell Membrane Structure

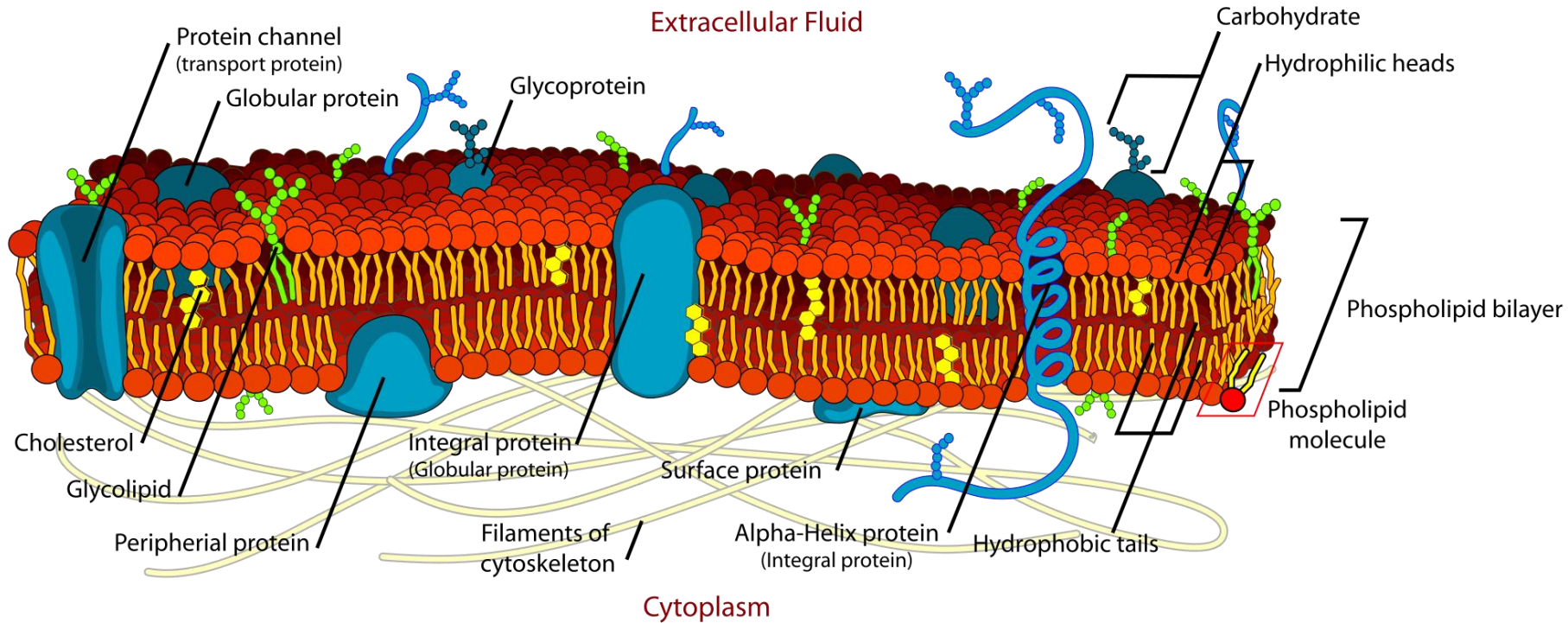
- The phospholipids form a phospholipid bilayer
 - Hydrophilic heads face the water
 - Hydrophobic tails are away from water

Label on your paper!

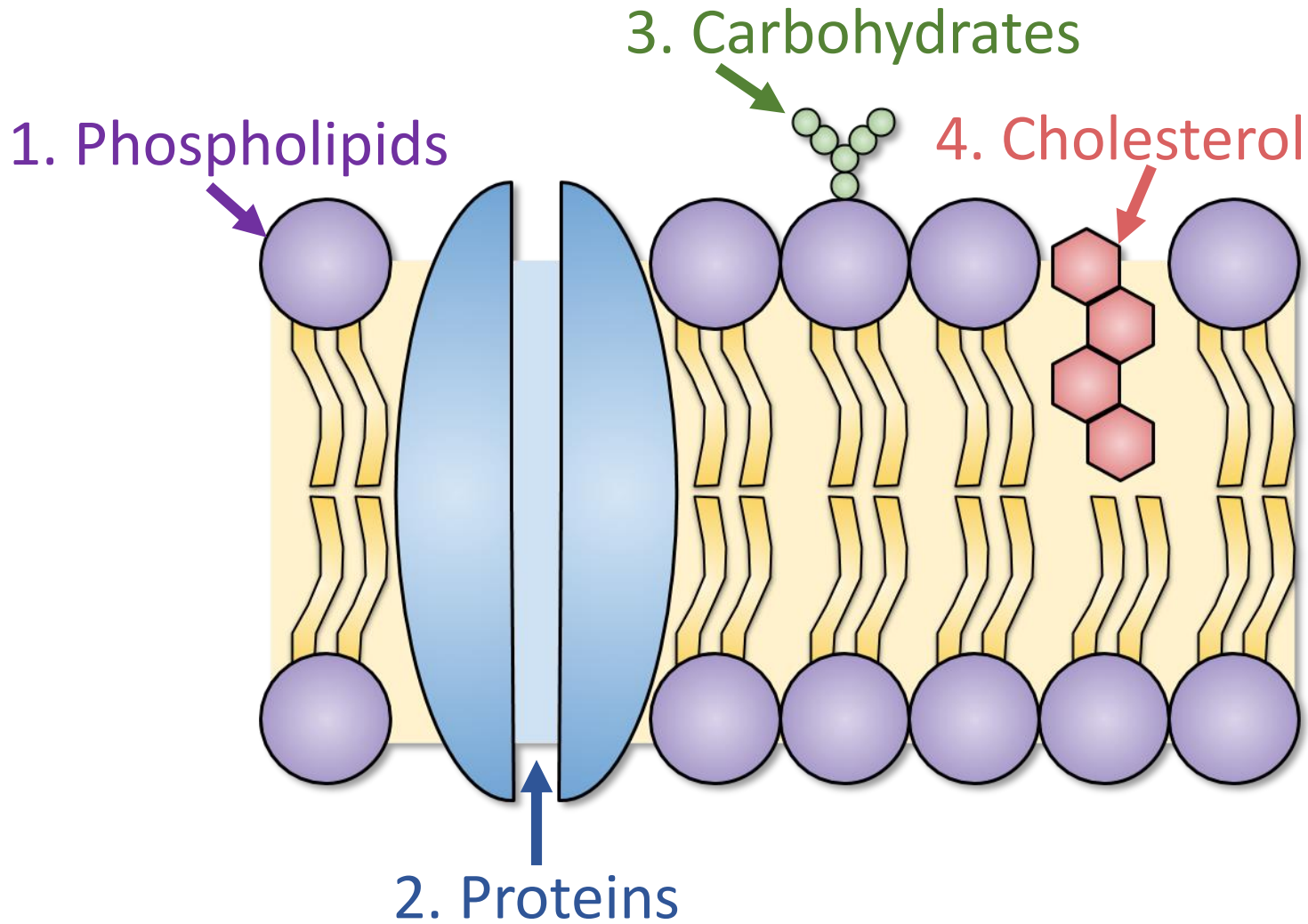


Cell Membrane Structure

- The phospholipid bilayer of the cell membrane is described as a **fluid mosaic model**
 - Fluid- it is not solid, it can move around
 - Mosaic- it is made of many different parts



Cell Membrane Structure (4 parts)



Cell Membrane Parts

1. **Phospholipids:** the main component of the membrane and forms the phospholipid bilayer.
2. **Proteins:** embedded in the membrane and used for transport into and out of the cell.
3. **Carbohydrates:** attached to phospholipids or proteins and used for cell identification
4. **Cholesterol:** in the hydrophobic part of the membrane. It regulates the fluidity of the membrane.

