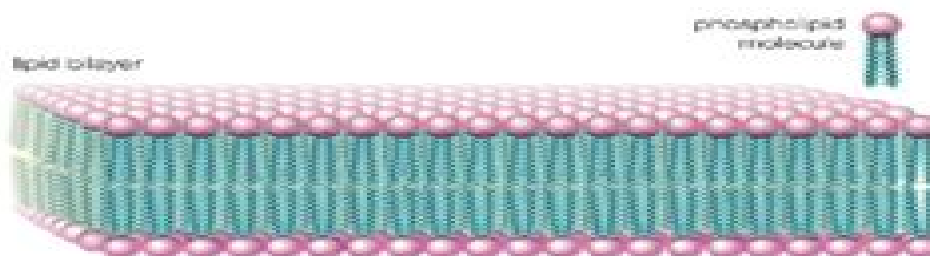


AP Biology - Cell Membrane Structure and Transport POGIL**1) The Phospholipid Bilayer**

The Phospholipid Bilayer is the primary component of the cell membrane which encompasses every cell in the body. It also makes up vesicles and the membranes that surround many of the cell's organelles. The bilayer is made up of molecules called Phospholipids which are *Hybrid Molecules* meaning they have two regions which vary significantly in their ability to interact with other substances. Phospholipid construction takes place in the Smooth Endoplasmic Reticulum.

One side of the Phospholipid molecule is Hydrophilic (head region) meaning it is able to interact with water. Since this region is polar, it is also able to interact with any substance which has an electrical charge (+ or -). The other region is made up of two, non-polar, hydrophobic tails composed of fatty acids. These regions are unable to interact with water or any other polar substances or electrical charges.

Since the inside and outside of a cell are aqueous (water-based) environments, the phospholipids will automatically arrange themselves in a manner in which the hydrophilic heads are pointing out, interacting with the water, and the hydrophobic tail regions are pointing in towards each other, preventing the tails from interacting with the water. This arrangement produces a flexible barrier which contains an entirely hydrophobic center. We call this a *Semi-Permeable* barrier due to certain substances being able to cross it and others being blocked.



- a) Where do we find Phospholipid Bilayers in cells, and where are they constructed?

You find the phospholipid bilayer in the cell membrane of a cell. They are constructed in the smooth endoplasmic reticulum.

- b) On the Phospholipid Bilayer above, label the region above the Bilayer as *Outside of the Cell* and the bottom region as *Inside of the Cell*. Also label a single phospholipid showing where the hydrophilic head and hydrophobic tails are located. Lastly, label the polar and nonpolar regions on the phospholipid.

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Katrin Zwirgmaier



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