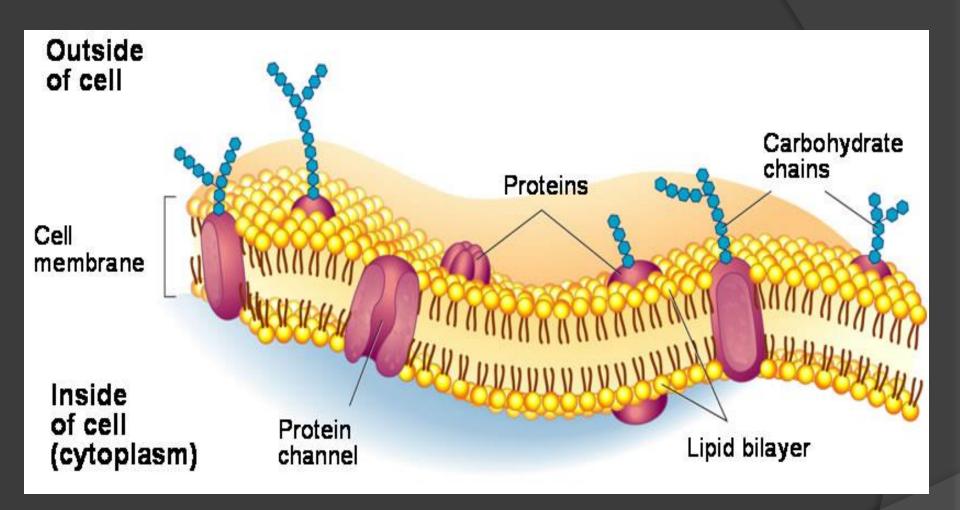
Warm-up: pick up a cell structure sheet (blue), paste it into your notebook, and get started!

Warm-up: Answers



Cell Membrane

 All cells are surrounded by a thin, flexible barrier called the cell (plasma) membrane.

• Functions:

- regulate what enters and leaves the cell
- Provide structure and support to the cell

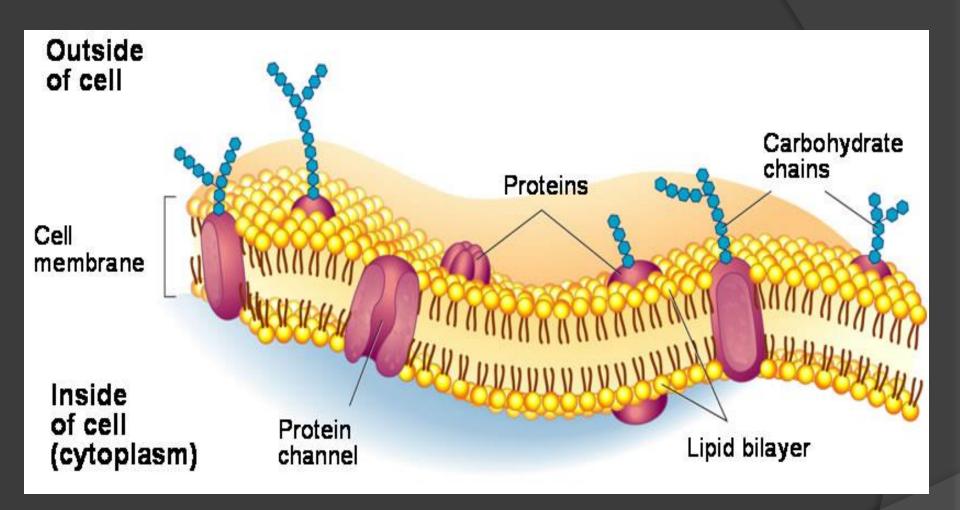
Cell Membrane Composition

- Mostly Lipids and Proteins
 - Some carbohydrates

Cell Membrane Composition

- Phospholipid Bilayer (lipid bilayer)
 - 2 layers of lipids
- Proteins are embedded in the bilayer
- Carbohydrate chains are attached to the proteins

So many kinds of molecules = FLUID MOSAIC MODEL

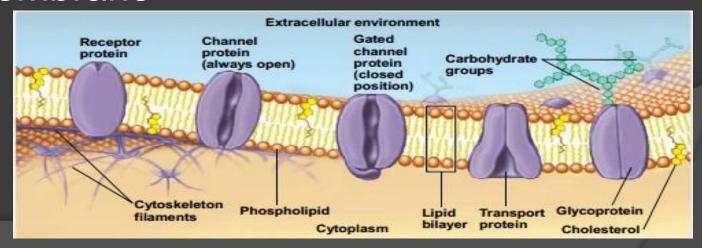


Cell Membrane Properties/Functions

- Selectively permeable = only certain molecules can free pass across the membrane
 - Only small, uncharged, polar molecules can pass freely
 - E.g. Water, carbon dioxide, oxygen
 - Large molecules and ions are impermeable
 they can't cross freely
 - E.g. Glucose, Ca²⁺

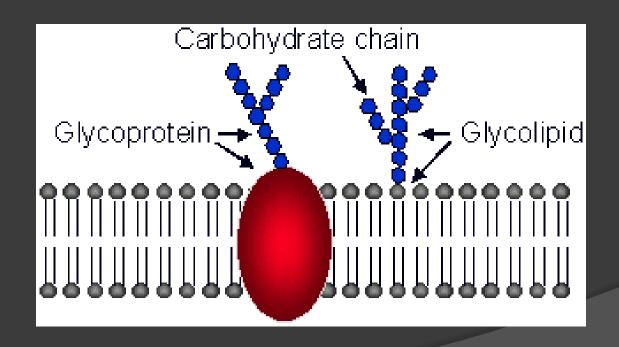
Protein Function in Cell Membrane

- Surface Proteins receptors that provide binding sites for hormones or trigger molecules
- Transport Proteins help transport large molecules or ions across the membrane



Carbohydrate Function in Cell Membrane

 Serves as identifiers allowing individual cells to identify one another



Next Steps...

- Cell Membrane Poster
- Review of Cells sheet
- Quiz tomorrow!
 - Prokaryotic vs. Eukaryotic Cells
 - Animal Cells vs. Plant cells
 - Cell Structure (Organelles and their functions)