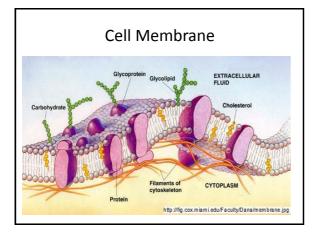
Lipid Vocabulary

Plasma (Cell) Membrane

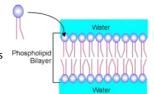


Why is the plasma membrane so important?

- 1. Protect cell from outside
- 2. Selective barrier filtering which substances enter/leave the cell
 - semi-permeable/semi-selective
- 3. Used to take in needed nutrients.
- 4. Used by cells to excrete waste products.
- 5. Used to communicate with other cells
- 6. Identification

Membrane Components

- 1. Two layers of phospholipids
 - "phospholipid bi-layer"
 - Physical barrier
 - Controls what enters Phospholipid Bilayer
 and exits



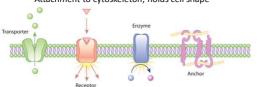
Membrane Components

- 2. Proteins
 - a) Transport
 - create channels and pumps to move substances across the membrane
 - b) Receptors
 - act like an antenna receiving chemical signals (hormones) from other cells
 - c) Enzymes
 - Speed up chemical reactions

Cholesterol!

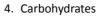
Structure

- 2. Proteins
 - d) Cell adhesion
 - Forms junctions between cells
 - e) Anchor
 - Attachment to cytoskeleton; holds cell shape



Structure

- 3. Cholesterol
 - Adds fluidity to membrane



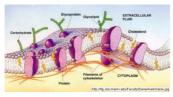
- Extracellular side ONLY

- Ex. Blood types; self cells vs. donor cells

- stick off creating a "face" - Used for identification

Fluid Mosaic Model

- - Phospholipids (and proteins) move sideways
- Mosaic:
 - Made of different molecules



Membrane Vocabulary