

## Cell Membrane Chapter 3a

- I. Plasma membrane
  - A. Components
    - 1. phospholipid bilayer
    - 2. glycolipids
    - 3. cholesterol
    - 4. proteins
      - a. peripheral
      - b. integral
        - 1) functions
          - a) receptors
            - signal transduction
          - b) transport
            - channels
            - carriers
    - 5. Fluid Mosaic Model
  - B. Specialized membrane structures
    - 1. Microvilli
    - 2. Membrane Junctions
      - a. tight junctions
      - b. desmosomes
      - c. gap junctions
  - C. Molecular movement across membranes
    - 1. diffusion
    - 2. facilitated diffusion
      - a) channels
    - a. osmosis
    - b. permeable vs selectively permeable
    - c. solutions
      - 1) hypertonic solution
      - 2) hypotonic solution
      - 3) isotonic solution
  - 3. Directed movement
    - a. active transport
      - 1) pumps
- D. Vesicular Transport
  - 1. endocytosis
    - a. pinocytosis
    - b. phagocytosis
      - 1) pseudopods
  - 2. exocytosis