

CHAPTER 3 OUTLINE

- I. Plasma Membrane
 - A. Phospholipid bilayer
 - B. Proteins
- II. Nucleus
 - A. Chromatin
 - B. DNA
 - C. RNA
 - D. Nucleolus
- III. Cytoplasm
 - A. Organelles
 - 1. Ribosomes and protein synthesis
 - 2. Endoplasmic reticulum
 - 3. Peroxisomes
 - 4. Golgi apparatus
 - 5. Lysosomes
 - 6. Mitochondria
 - 7. Centrioles
 - 8. Cilia and flagella
- IV. Passive Transport
 - A. Diffusion
 - B. Osmosis - isotonic, hypotonic, hypertonic
 - C. Facilitated diffusion
 - D. Filtration

V. Active Transport

- A. Carrier proteins
- B. endocytosis/exocytosis

VI. Mitosis

- A. Interphase
- B. Prophase
- C. Metaphase
- D. Anaphase
- E. Telophase