

Biology Study Guide

1. Cell Structure and Function

a. The Cell Theory

- All living organisms are made of one or more cells.
- Cells are the basic unit of life.
- All cells arise from pre-existing cells.

b. Types of Cells

- **Prokaryotic Cells:** No nucleus or membrane-bound organelles (e.g., bacteria).
- **Eukaryotic Cells:** Have a nucleus and membrane-bound organelles (e.g., plants, animals).

c. Organelles and Their Functions

- **Nucleus:** Controls the cell's activities and contains DNA.
- **Mitochondria:** The powerhouse of the cell; produces ATP through cellular respiration.
- **Ribosomes:** Site of protein synthesis.
- **Endoplasmic Reticulum (ER):**
 - **Rough ER:** Has ribosomes, involved in protein synthesis.
 - **Smooth ER:** Involved in lipid synthesis and detoxification.
- **Golgi Apparatus:** Modifies, sorts, and packages proteins for secretion.
- **Lysosomes:** Contain digestive enzymes to break down waste.
- **Chloroplasts (in plants):** Site of photosynthesis.
- **Cell Membrane:** Semi-permeable membrane that controls what enters and exits the cell.

Answeres To Biology Study Guide

Richard O. Straub

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