

Chapter 3: Cell Structure and Function

Cell theory and the development of microscopy:

- ◆ Cell theory states that all living organisms are composed of cells, cells are the basic units of structure and function in living organisms, and cells arise from pre-existing cells.
- ◆ The development of microscopy, particularly the invention of the compound microscope, allowed for the observation and study of cells.

Prokaryotic and eukaryotic cells:

- ◆ Prokaryotic cells are simpler and lack a membrane-bound nucleus and membrane-bound organelles. They include bacteria and archaea.
- ◆ Eukaryotic cells are more complex, with a membrane-bound nucleus and various membrane-bound organelles. They make up plants, animals, fungi, and protists.

Cell organelles and their functions:

- ◆ **Nucleus:** Contains DNA and controls cell activities.
- ◆ **Mitochondria:** Site of cellular respiration and energy production.
- ◆ **Endoplasmic reticulum:** Involved in protein and lipid synthesis.
- ◆ **Golgi apparatus:** Modifies, sorts, and packages proteins for transport.
- ◆ **Lysosomes:** Digests waste materials and cellular debris.
- ◆ **Chloroplasts:** Site of photosynthesis in plant cells.
- ◆ **Central vacuole:** Maintains turgor pressure in plant cells.
- ◆ **Cell membrane:** Regulates the movement of substances into and out of the cell.

Cell membrane structure and transport mechanisms:

- ◆ The cell membrane is composed of a phospholipid bilayer with embedded proteins and other molecules.
- ◆ It controls the movement of substances through various mechanisms, including diffusion, osmosis, facilitated diffusion, active transport, and endocytosis/exocytosis.

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