

# 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 cell rigidity and stores nutrients.
- ◆ **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 phospholipids with hydrophilic heads and hydrophobic tails.
- ◆ It contains various transport proteins, including channels, carriers, and pumps, which facilitate the movement of substances across the membrane.

# Chapter 3 Basic Structure And Function Of Mites

**Y Pai**

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