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.

Cell Structure And Function Vocabulary Answers Chapter 3

Karin Nielsen-Saines

Cell Structure And Function Vocabulary Answers Chapter 3:

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