

CHAPTER 8

Cellular respiration: involves the oxidation of organic molecules (usually carbohydrates and lipids) to produce energy (ATP) and release carbon dioxide and water.

ATP: Adenosine Triphosphate (ATP) is the primary energy currency of the cell. It is a nucleotide derivative composed of adenine, ribose, and a triphosphate group. The energy is stored in the high-energy phosphate bonds, which are released when ATP is hydrolyzed to ADP (Adenosine Diphosphate).

Energy flow: Energy flows from the sun to producers (plants) through photosynthesis. Producers then transfer energy to consumers (animals) through feeding. Energy is lost at each step of the flow, primarily as heat.

Metabolic pathways: These are the series of chemical reactions that occur within a cell to convert nutrients into energy. Key pathways include glycolysis, the citric acid cycle, and the electron transport chain.

Photosynthesis: The process by which plants and some other organisms use light energy to convert carbon dioxide and water into glucose and oxygen.

CHAPTER 9

Prokaryotes (bacteria and archaea): Single-celled organisms that lack a nucleus and other membrane-bound organelles.



Prokaryotes: These organisms lack a nucleus and other membrane-bound organelles. They are typically single-celled and can be found in a wide variety of environments, including extreme conditions.

Eukaryotes: These organisms have a nucleus and other membrane-bound organelles. They are typically multi-celled and are found in a wide variety of environments.

Prokaryotic cell structure: The cell is typically spherical or rod-shaped. It contains a single circular DNA molecule, ribosomes, and a cell membrane. Some prokaryotes also have a cell wall and flagella.

CHAPTER 10

The Nucleus Chapter 30 Study Guide Answer

Barbara Herlihy



The Nucleus Chapter 30 Study Guide Answer:

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