

CHAPTER 1

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, a molecule that stores and transfers energy. It is composed of Adenine, Ribose, and a phosphate group. The energy is released when the phosphate group is hydrolyzed to ADP and inorganic phosphate (Pi).

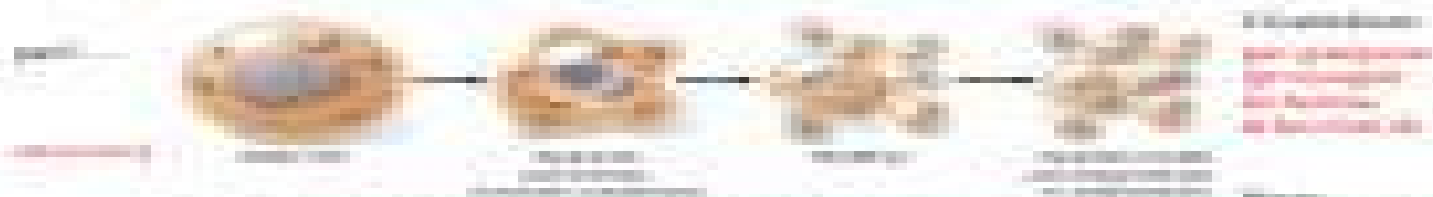
Energy flow: Energy flows from the sun to producers (plants) and then to consumers (animals). Producers convert solar energy into chemical energy (glucose) through photosynthesis. Consumers then use this energy to power their metabolic processes.

Metabolic pathways: A series of chemical reactions that occur in the 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 other autotrophs convert light energy into chemical energy (glucose) using carbon dioxide and water.

CHAPTER 2

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



Prokaryotes: A group of organisms that lack a nucleus and other membrane-bound organelles. They are typically single-celled and can be found in a wide variety of environments.

Eukaryotes: Organisms that have a nucleus and other membrane-bound organelles. They are typically multi-celled and can be found in a wide variety of environments.

Prokaryotes vs. Eukaryotes: Prokaryotes are single-celled organisms that lack a nucleus and other membrane-bound organelles. Eukaryotes are multi-celled organisms that have a nucleus and other membrane-bound organelles. Prokaryotes are typically found in simple environments, while eukaryotes are found in more complex environments.

CHAPTER 3

The Nucleus Chapter 30 Study Guide Answer

SJ Ball



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