

Cellular Energy Study Guide

1. What is the difference between anabolic and catabolic pathways?

Catabolic pathways release energy by breaking down complex molecules into simpler compounds.

Anabolic pathways, called biosynthetic pathways, consume energy to build complex molecules from simpler ones.

2. The study of how energy flows through living systems is called bioenergetics.

3. Give 2 examples of catabolic pathways and 2 examples of anabolic pathways.

Catabolic Pathways:

- Glycolysis:

Process: Glycolysis is a catabolic pathway that occurs in the cytoplasm of cells and involves the breakdown of glucose (a six-carbon sugar) into two molecules of pyruvate (a three-carbon compound).

Energy Release: During glycolysis, a small amount of energy is released, and some of it is captured in the form of ATP and NADH.

- Krebs Cycle (Citric Acid Cycle):

Process: The Krebs cycle takes place in the mitochondria and is part of the aerobic respiration process. It involves the further breakdown of pyruvate produced during glycolysis into carbon dioxide, generating NADH and FADH₂.

Energy Release: The Krebs cycle contributes to the production of additional NADH and FADH₂, which carry high-energy electrons to the electron transport chain.

Anabolic Pathways:

- Protein Synthesis:

Process: Protein synthesis is an anabolic pathway that occurs in the ribosomes of cells. It involves the assembly of amino acids into polypeptide chains, which then fold into functional proteins.

Energy Input: The synthesis of proteins requires the input of energy in the form of ATP.

- Photosynthesis:

Process: Photosynthesis is an anabolic pathway that occurs in the chloroplasts of plant cells. It involves the synthesis of glucose from carbon dioxide and water, using light energy captured by chlorophyll.

Energy Input: Photosynthesis requires energy from sunlight to drive the conversion of carbon dioxide and water into glucose and oxygen.

4. Describe each of the following:

Energy is the capacity to cause change

- Kinetic Energy – energy associated with motion
- Potential Energy – energy that matter possesses because of its location or structure
- Thermal Energy – kinetic energy associated with random movement of atoms or molecules
- Chemical Energy – potential energy available for release in a chemical reaction

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