

Name: _____

Date: _____

Cellular Respiration

A Vital Process for Energy Production

Cellular respiration is a fundamental biological process that occurs within the cells of living organisms, enabling them to extract energy from nutrients. This intricate process involves the breakdown of glucose molecules in the presence of oxygen, releasing energy in the form of adenosine triphosphate (ATP). ATP serves as the primary energy currency for cellular activities, providing the necessary fuel for various biological processes.

Stages of Cellular

Respiration: Cellular respiration comprises three main stages: glycolysis, the citric acid cycle (or Krebs cycle), and oxidative phosphorylation. Glycolysis takes place in the cytoplasm and involves the breakdown of one

molecule of glucose into two molecules of pyruvate, producing a small amount of ATP and NADH. The citric acid cycle occurs in the mitochondria and further breaks down the products of glycolysis, generating additional ATP and electron carriers. Oxidative phosphorylation, also in the mitochondria, involves the transfer of electrons through a series of protein complexes, ultimately leading to the production of a large amount of ATP.



Energy Conversion: The key role of cellular respiration is to convert the chemical energy stored in glucose into a usable form—ATP. This energy conversion is essential for powering cellular activities such as muscle contraction, synthesis of biomolecules, and the maintenance of cell structure.

Reading On Cellular Respiration High School

Camilla Rothe



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