

Cellular Respiration Overview

ethanol	oxygen	glucose	Krebs	ATP
fermentation	carbon dioxide	pyruvate	oxidative	glycolysis
lactic acid	water	synthase	electron	mitochondria



- Cellular respiration is the process by which cells convert glucose into energy.
- The organelle associated with cellular respiration is the mitochondria.
- The chemical equation for cellular respiration is:

$$\text{Glucose} + \text{Oxygen} \rightarrow \text{water} + \text{carbon dioxide} + \text{ATP}$$
- The function of cellular respiration is to produce ATP, the cell's energy currency.
- Aerobic respiration is a type of cellular respiration that does not require oxygen.
- During glycolysis, a molecule of glucose is broken down into two molecules of pyruvate.
- Fermentation is a type of anaerobic respiration that occurs when there is not enough oxygen available.
- Yeasts produce this product during fermentation: ethanol.
- Humans undergo lactic acid fermentation when muscles don't have enough oxygen.
- The first stage of cellular respiration is glycolysis.
- The second stage of cellular respiration is the Krebs cycle.
- The third stage of cellular respiration is the electron transport chain.
- The majority of ATP is produced in the third stage, through oxidative phosphorylation.
- ATP synthase is a protein that uses the proton gradient in the ETC to make ATP.



9 1 Cellular Respiration An Overview Worksheet Answer Key

Albert Kaskel



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