

Study Guide Cell Energetics

1. What is the role of oxygen in aerobic respiration?

The role of oxygen in aerobic respiration is that it accepts electrons from the electron transport chain (ETC). The electron is transferred in a series that oxygen is at the end of. This oxygen then reacts with protons to form water (H_2O).

2. What is the driving force that causes the creation of ATP?

The driving force that causes the creation of ATP is glycolysis, oxidative phosphorylation, and aerobic respiration.

3. Compare the products produced in aerobic respiration and anaerobic respiration?

Aerobic respiration produces ATP, carbon dioxide, and water from glucose and oxygen while anaerobic respiration produces lactic acid.

4. What process occurs in both respiration and photosynthesis?

The process that occurs in both respiration and photosynthesis is chemiosmosis and the electron transport chain. Chemiosmosis is the formation of a proton gradient that drives ATP synthesis and occurs in both the mitochondria (respiration) and chloroplast (photosynthesis). The electron transport chain consists of different enzymes/coenzymes that are involved in ATP production. It is present in the inner mitochondrial membrane (respiration) and in the thylakoid membrane (photosynthesis).

5. Where does the Krebs cycle occur and what are the products?

The Krebs Cycle occurs in the mitochondrial matrix. The products of the Krebs Cycle are 4 CO_2 , 6 $NADH$, 2 $FADH_2$, and 2 ATPs.

6. What is the process of oxidative phosphorylation?

The process of oxidative phosphorylation is where it begins with the delivery of electrons by $NADH$ and $FADH_2$. Next, the electron transfer begins down the concentration gradient as protons are pumped. Then, at the end of the electron transport chain, electrons are transferred to oxygen which splits in half and takes up hydrogens to form water. Lastly, hydrogen ions flow down the gradient back into the matrix, they go through ATP synthase that harnesses the flow of protons to synthesize ATP.

7. What are the steps of lactic acid fermentation?

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The Athenaeum, 1883 *Journal of the Missouri Botanical Garden*, 1950 *Weekly Florists' Review* Gilbert Leonard Grant, 1928 *Historical Geology* Reed Wicander, James Stewart Monroe, 2000

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