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## Mastering Biology. Chapter 9

The immediate energy source that drives ATP synthesis by ATP synthase during oxidative phosphorylation is the – answer  $H^+$  concentration across the membrane holding ATP synthase.

Which metabolic pathway is common to both fermentation and cellular respiration of a glucose molecule? - answer glycolysis

What is the oxidizing agent in the following reaction?  $\text{Pyruvate} + \text{NADH} + \text{H}^+ \rightarrow \text{Lactate} + \text{NAD}^+$  - answer pyruvate

When electrons flow along the electron transport chains of mitochondria, which of the following changes occurs? - answer The pH of the matrix increases.

Most  $\text{CO}_2$  from catabolism is released during - answer the citric acid cycle.

Select the correct statement about cellular respiration. - answer Cellular respiration and breathing differ in that cellular respiration is at the cellular level, whereas breathing is at the organismal level.

How will a healthy individual's ATP production change during an eight-hour fast? - answer The individual's ATP production will not change significantly.

Which of the following statements accurately describes the function of a metabolic pathway involved in cellular respiration? - answer The function of glycolysis is to begin catabolism by breaking glucose into two molecules of pyruvate, with a net yield of two ATP.

In cellular respiration, a series of molecules forming an electron transport chain alternately accepts and then donates electrons. What is the advantage of such an electron transport chain? - answer The advantage of an electron transport chain is that a small amount of energy is released with the transfer of an electron between each pair of intermediates.

Identify all correct statements about the basic function of fermentation. Select all that apply. - answer The basic function of fermentation is the regeneration of  $\text{NAD}^+$ , which allows continued ATP production by glycolysis.

Which of the following cheeses would likely spoil the most quickly? - answer A low fat, low salt variety.

# Mastering Biology Answers Chapter 10

**Brendan G. Carr**



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