

Read the following excerpt from the Biology 189 lab manual (pgs. 151-153) and watch the short video, then answer the questions.

INTRODUCTION

Cellular respiration is the process organisms use to convert food to **adenosine triphosphate (ATP)**, the energy molecule used in cells. The aerobic process is complex, requiring many enzymatic steps. The enzyme reactions are grouped into four pathways: **glycolysis**, **transition reaction (or pyruvate oxidation)**, the **Krebs cycle (or citric acid cycle)**, and the **electron transport chain/oxidative phosphorylation**. Glucose is the most efficient food source for most cells to use in making ATP. However, other types of food may also be converted into intermediates in these pathways. As a result, ATP energy is produced from all our food by these four pathways (Figure 1).

The overall reaction for aerobic cellular respiration is:



Plants produce glucose by photosynthesis. This glucose can then be stored as **starch** (large polymers of glucose) for later use. When energy is needed, the starch is broken down into individual glucose molecules, which then go through aerobic cellular respiration to produce ATP.

Animals store glucose as **glycogen** (large polymers of glucose) in liver and skeletal muscle cells. As in plants, when energy is needed, glycogen is broken down into glucose molecules and used to generate ATP. No matter whether you are studying plants or animals, the first step in glucose metabolism is **glycolysis**, which requires no oxygen. Then the products from glycolysis are further broken down in steps that do require oxygen.

In eukaryotic cells the organelle that serves as the site for cellular respiration is the **mitochondrion**. Figure 2 shows the pathways for aerobic cellular respiration and which part of the mitochondrion each pathway occurs. Glycolysis occurs outside of the mitochondrion in the **cytosol** of the cell. The transition reaction and the Krebs cycle occur in the **matrix** of the mitochondrion. And the electron transport chain occurs on the **cristae** (inner membrane) of the mitochondrion.

The purpose of aerobic cellular respiration is to generate energy (ATP). Aerobic respiration also produces carbon dioxide and water as byproducts. The water can be used by respiring cells in both plants and animals. In contrast, animals cannot use carbon dioxide. It is generally transported into the bloodstream, and exhaled from the lungs. Plants can recycle the carbon dioxide back into glucose (photosynthesis), particularly during

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