

Lab 8

Cellular Respiration



Section 1 – Review of Energy Molecules

[2] Welcome to this week's lab on cellular respiration. This lab continues the exploration of how organisms obtain and use energy. As you study this diagram you will see that photosynthesis and cellular respiration are basically opposite reactions. In photosynthesis, autotrophs capture light energy and store the energy in glucose. In cellular respiration, organisms break down glucose to release energy.

[3] Before getting to respiration, let's review some concepts from last week. Look at Section 1 and see if you can answer the first two questions and then return to the program to see if you remembered correctly.

[4] How did you do? Did you remember that ATP carries energy in a chemical bond and NADPH carries energy in high energy electrons? If so great! If not, you can look back at Section 2 of Lab 7 for a brief review.

[5] Cellular respiration uses two new molecules to carry high energy electrons. These molecules are seen here. Look at them and see if you can recognize which of these molecules have picked up the high energy electrons.

[6] OK, did you figure it out? See if you did by answering this question.

[7] Did you remember that the negative charge of electrons is cancelled by the positive charge of hydrogen ions and thus conclude that the NADH and the FADH_2 are the molecules that contain the high energy electrons? With this information you can answer the last question in Section 1 and then return to the program.

Section 2 – Biochemical Pathways in Cellular Respiration

[8] Now we will continue our exploration of energy and cellular respiration. All organisms, including plants, break down organic molecules to obtain energy. This energy is then used to produce ATP. The ATP in turn is used to carry on cellular activities.

[9] Just like we saw with photosynthesis, there are several different chemical pathways and subreactions associated with how organisms release energy from organic molecules to produce ATP. The two main pathways are respiration and fermentation. List these pathways in the first part of Section 2.

[10] Last week we saw how plants produce glucose using the energy and electrons from ATP and NADPH. Do you remember where the energy is stored in glucose?

[11] Yes, the energy is stored in both chemical bonds and high energy electrons. The chemical reactions involved in extracting energy from glucose will use the energy released when the bonds in glucose are broken and the high energy electrons are released.

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Physical Laboratory Manual for Use in Schools and Colleges Horatio Nelson Chute, 1895

Resources in Education, 1992-04

Chemical Technology Walter J. Brooking, United States. Division of Vocational and Technical Education, 1964

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