

Chapter 9: Cellular Respiration and Fermentation

- 9.1 Explain how the redox reactions of catabolic pathways yield energy by oxidizing organic fuels.
- 9.2 Trace the pathway of glucose oxidation during glycolysis.
- 9.3 Describe the oxidation of pyruvate and the process by which further oxidation occurs in the citric acid cycle.
- 9.4 Identify the steps of oxidative phosphorylation and account for the total ATP produced per glucose molecule during cellular respiration.
- 9.5 Name two types of fermentation and explain how they result in ATP production.
- 9.6 Use examples to illustrate the interactions of glycolysis and the citric acid cycle with other metabolic pathways.

Although this is a challenging topic, it will give you the background necessary to understand much about energy transfer at the cellular level. Each concept builds on the previous concept, so take your time working through the figures and text, and you will find you have mastered a difficult area of biology when you finish.

Study Tip: Before getting involved with the details of cellular respiration, take a second to look at the big picture as shown in Figure 9.1. Both photosynthesis (the topic for Chapter 10) and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.1 to label the indicated parts in the following figure.



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George Karleskint



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Health Organization Worms Wounds Wrinkles Xenotransplantation Yellow fever Yoga Zoonoses Glossary Diseases Other Medical Conditions Types of Health Care Providers Medical Journals Web Site Directory Entries by Anatomy or System Affected Entries by Specialties Related Fields **Developing Assessments for the Next Generation Science Standards** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Testing and Assessment, Committee on Developing Assessments of Science Proficiency in K-12, 2014-05-29 Assessments understood as tools for tracking what and how well students have learned play a critical role in the classroom Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K 12 Science Education Framework and Next Generation Science Standards NGSS These documents are brand new and the changes they call for are barely under way but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education The new Framework and the NGSS are designed to guide educators in significantly altering the way K 12 science is taught The Framework is aimed at making science education more closely resemble the way scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time It structures science education around three dimensions the practices through which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as students progress through grades K 12 Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework This report reviews recent and current work in science assessment to determine which aspects of the Framework s vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision The report offers a systems approach to science assessment in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework s vision should consist of assessments designed to support classroom instruction assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students Science Books & Films ,1989

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