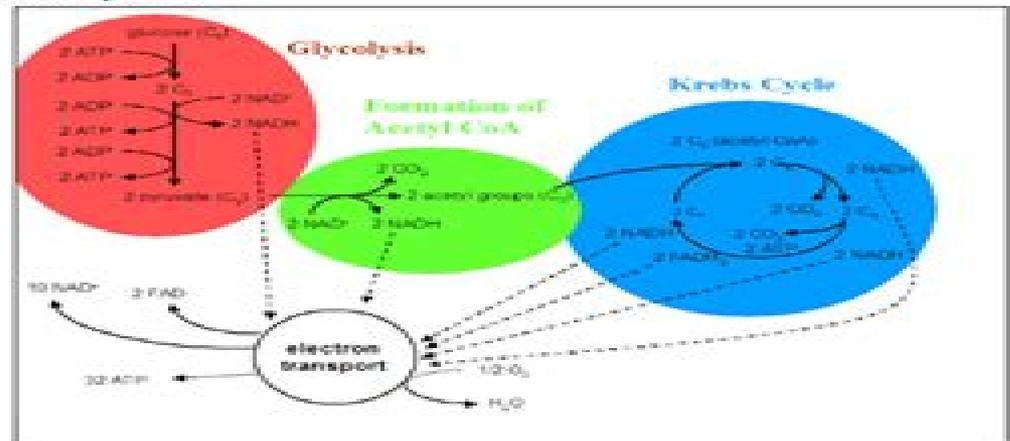
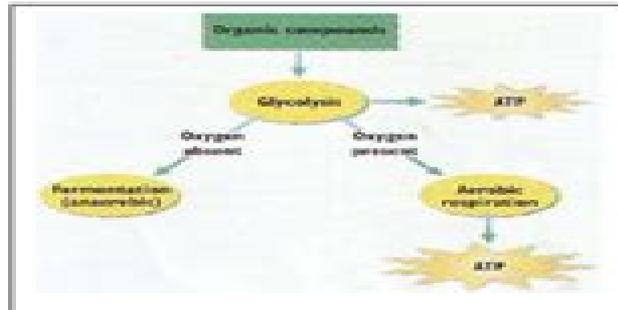


AP BIOLOGY – CHAPTER 7 Cellular Respiration Outline

I. How cells get energy:

A. Cellular Respiration

1. **Cellular respiration** includes the various metabolic pathways that break down carbohydrates and other metabolites and build up ATP.



2. Cellular respiration requires oxygen and gives off CO₂.
3. Aerobic respiration usually breaks down glucose into CO₂ and H₂O.
4. Overall equation for complete breakdown of glucose requires oxygen (is aerobic):

$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$$
5. Glucose is high-energy molecule; CO₂ and H₂O are low-energy molecules; process is exergonic and releases energy.
6. Electrons are removed from substrates and received by oxygen, combines with H⁺ to become water.
7. Glucose is oxidized and O₂ is reduced.
8. Buildup of ATP is an endergonic reaction that requires energy.
9. Pathways of aerobic respiration allow energy in glucose to be released slowly; ATP is produced gradually.
10. Rapid breakdown of glucose would lose most energy as non-usable heat.
11. Breakdown of glucose yields synthesis of 36 or 38 ATP; this preserves 39% of energy available in glucose.

B. NAD⁺ and FAD

1. Each metabolic reaction in cellular respiration is catalyzed by its own enzyme.
2. As a metabolite is oxidized, NAD⁺ accepts two electrons and a hydrogen ion (H⁺); results in NADH + H⁺.
3. Electrons received by NAD⁺ and FAD are high-energy electrons and are usually carried to the electron transport system.
4. NAD⁺ is a coenzyme of oxidation-reduction since it both accepts and gives up electrons.
5. Only a small amount of NAD⁺ is needed in cells; each NAD⁺ molecule is used over and over.
6. FAD coenzyme of oxidation-reduction can replace NAD⁺; FAD accepts two electrons, becomes FADH₂.

This is only a general outline. There is much that has been discussed and presented in lecture that is not included in this outline. All material discussed in lecture is test-material whether or not it is included in this outline.

Ap Bio Cellular Respiration Study Guide

Chao Zhang



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AP Biology: 21 Must Know Concepts to Ace the Test Learnerator Education, 2015-05-06 Learn Key AP Biology Concepts in Under an Hour Read on your PC Mac smartphone tablet or Kindle device In AP Biology 21 Must Know Concepts to Ace the Test you will learn many of the most frequently tested concepts for AP Biology including but not limited to Endosymbiosis the Hardy Weinberg Equation and Mendelian Genetics This book covers not only what these concepts are but why they are important in the context of AP Biology These articles were originally posted on the Learnerator blog and were compiled in no particular order If you feel like you have no idea where to start when it comes to AP Biology prep read this book to begin understanding 21 key concepts for the AP Biology exam Grab your copy today Here is a preview of what is inside this book Introduction Abiogenesis Anaerobic Respiration Animal Behavior Cell Organelles Diffusion Osmosis Dissolved Oxygen DNA Replication Endocrine System Endosymbiosis Enzymes Hardy Weinberg Equation Heredity Immune Systems Kingdoms Krebs Cycle Lipids Mendelian Genetics Mitosis and Meiosis Nucleic Acids Scientific Method Transcription and Translation Conclusion An excerpt from the book Anaerobic respiration is how cells make energy when as you may have guessed from the name there is no available oxygen In fact for this process there is neither oxygen nor mitochondria present The two processes that allow this to work are those of glycolysis and fermentation In cellular respiration what we normally see is glucose breaks down to pyruvate and from this process we net 2 ATP Next the pyruvate will go into the mitochondria and enter the Krebs cycle In the process of being converted to acetyl CoA CO₂ is given off and another 2 ATP are made This energy is stored in NADH and FADH₂ Their electrons move into the electron transport chain which will move to oxygen to transform the product to water In this 23 34 ATP are made Tags ap biology ap bio ap biology review and study guide ap biology exam learnerator **AP® Biology Crash Course, For the New 2020 Exam, Book + Online** Michael D'Alessio, 2020-02-04 REA the test prep AP teachers recommend *Biology*, 1999 *AP Biology Study Guide* Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **Critical Care Study Guide** Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions Because this knowledge base crosses many different disciplines introduction to caring for the intensive care patient while exciting may also be intimidating This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful The book

contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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AP Biology For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart hard working and ambitious All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That's where *AP Biology For Dummies* comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust your exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more *AP Biology For Dummies* helps you make exam day a very good day indeed

AP Biology Deborah T. Goldberg, 2020-03-03 Barron's *AP Biology With Two Practice Tests* is revised to reflect all upcoming changes to the AP Biology course and the May 2020 exam You'll get the in depth content review and practice tests you need to fully prepare for the exam This edition features Two full length practice exams in the book that follow the content and style of the revised AP Biology exam with detailed answer explanations for all questions A fully revised

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flowering plants beginning with the days of the discovery and conquest of Mexico by the Spaniards in the early sixteenth century

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