

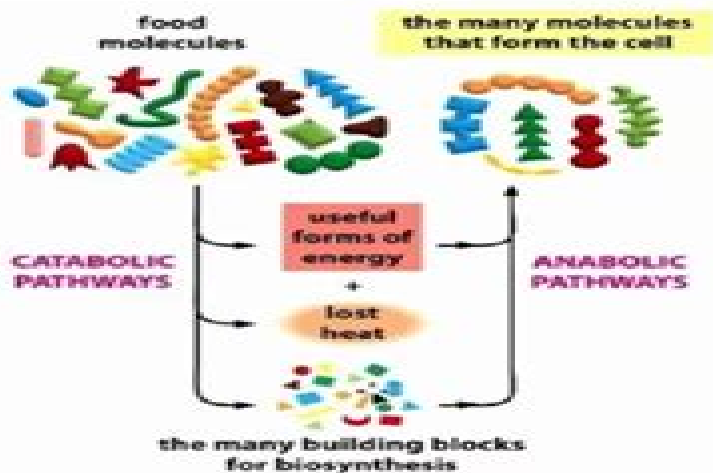
Module 2: Metabolism/Photosynthesis/Enzymes

2.1, Metabolism

Metabolism – Refers to all chemical reactions occurring within a cell.

Anabolic Reactions – build up, consumes energy.

Catabolic Reaction – break down, releases energy.



Catabolic and Anabolic Pathways

Catabolic Pathways	Anabolic Pathways	All Metabolic Pathways
Breakdown of molecules	Building molecules	Tightly regulated (occur only as needed)
Overall release energy	Overall consume energy	Necessary for cell survival
Rely on oxidized coenzymes (especially NAD ⁺) to oxidize intermediates	Rely on reduced coenzymes (especially NADPH) to reduce intermediates	Require enzymes
Example: cellular respiration	Example: lipid biosynthesis	—

Enzymes are biological catalysts, they accelerate a reaction by making it more energetically favorable. They lower the activation energy of a reaction. They are proteins, their structure being dictated by the DNA sequence that encodes for it. They are not used up in the reaction.

Cofactor – metal ions that activate or enhance enzyme activity (Ca²⁺, Zn²⁺)

Substrate – the target of the enzyme

Metabolism Energy And Enzymes Study Guide

Albert A Gayle



Metabolism Energy And Enzymes Study Guide:

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Study Guide for Fundamentals of Nursing Marilee LeBon, 2018-10-05 Publisher's Note Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality authenticity or access to any online entitlements included with the product Study Guide to Accompany Fundamentals of Nursing The Art and Science of Person Centered Nursing Care 9th Edition By Marilee LeBon Created in conjunction with Fundamentals of Nursing The Art and Science of Patient Centered Care 9th Edition this valuable Study Guide helps students review and apply important concepts to prepare for exams and their nursing careers Assessing Your Understanding provides a variety of exercises such as matching and fill in the blank questions to help students retain key information Applying Your Knowledge challenges students with critical thinking questions reflective practice exercises to help cultivate QSEN

competencies and patient care studies Practicing for NCLEX provides multiple choice and alternate format questions to help students review content and become familiar with the NCLEX format

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insights tips and proven techniques to help you master the exam with flying colors Inside these pages you will find an in depth exploration of the fundamental concepts of basic sciences including biochemistry molecular biology anatomy physiology neuroscience psychology and genetics You will also delve into the intricacies of clinical medicine gaining a deeper understanding of the respiratory cardiovascular gastrointestinal renal genitourinary musculoskeletal and integumentary systems Beyond the foundational knowledge this guide delves into the complexities of pathology uncovering the mechanisms underlying disease processes from cellular abnormalities and infectious agents to neoplastic growths and genetic disorders You will also master the intricacies of pharmacology gaining a comprehensive understanding of drug actions pharmacokinetics and pharmacodynamics while learning to navigate adverse drug reactions and drug interactions with ease Furthermore this guide equips you with essential clinical skills guiding you through the art of patient history taking conducting physical examinations interpreting diagnostic tests and developing effective treatment plans You will also learn how to navigate clinical vignettes effectively deciphering complex scenarios identifying key findings formulating differential diagnoses and reaching accurate conclusions To ensure your success this guide provides invaluable test taking strategies helping you master the art of answering multiple choice questions manage your time effectively handle stress and anxiety and avoid common pitfalls With a focus on building perseverance resilience and a strong support network this guide empowers you to embrace the journey towards the USMLE Step 1 exam with confidence and determination As you embark on this transformative journey remember that success is not merely about accumulating knowledge it is about cultivating a mindset of resilience adaptability and unwavering dedication This guide will be your trusted companion providing you with the tools and strategies you need to conquer the USMLE Step 1 exam and unlock the gateway to a fulfilling career in medicine If you like this book write a review

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