

Chapter 5 – Microbial Metabolism

Metabolism - Sum of all chemical reactions that happen within the cell.

- Synthesis, store and utilize that energy

Pathways of Metabolism

Catabolism

- The breakdown of molecules (Hydrolytic reactions in which produces ATP)
- Degradative
- Hydrolysis
- Exergonic Reactions → Produces energy → ATP production

Anabolism

- The Synthesis of larger molecules from smaller ones. (Dehydration reactions that use ATP)
- Biosynthetic
- Dehydration → Lose H₂O
- Endergonic Reactions → use energy → By releasing the last phosphate in ATP → 3 PO₄⁻ turns into 2 PO₄⁻ → ADP

*LEGEND: ~ = Unstable bond

Two Key Players in Metabolism

1) ATP

- Considered the cells currency because you can save it, use it, or even exchange it.
- Principle form of energy in all organisms
- Immediately available

2) Enzyme

- Acts as a biological catalyst for speeding up chemical reactions → By lowering the activation energy → Increase the likelihood of the reaction
- Remain unchanged after a reaction
- Influenced by various factors in our genetic makeup

Enzyme Components

1) Apoenzyme

- Protein portion
- Inactive

2) Cofactor

- Nonprotein component
 - Inorganic Molecules → Ca⁺, Fe⁺, Mg, Mn⁺

Microbiology Chapter 5 Microbial Metabolism Test

Yi-Tong Ma



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Fundamentals of Microbiology Pommerville, 2017-05-08 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students' initial introduction to this exciting science. Fundamentals of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students Fundamentals of Microbiology Body Systems Edition Third Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known. Highly suitable for non science majors the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable. Unlike other texts in the field Fundamentals of Microbiology Body Systems Edition takes a global perspective on microbiology and infectious disease and supports students in self evaluation and concept absorption. Furthermore it includes real life examples to help students understand the significance of a concept and its application in today's world whether to their local community or beyond. New information pertinent to nursing and health sciences has been added while many figures and tables have been updated, revised and/or reorganized for clarity. Comprehensive yet accessible the Third Edition is an essential text for non science majors in health science and nursing programs taking an introductory microbiology course. Provided by publisher. Fundamentals of Microbiology Jeffrey C. Pommerville, 2017-05-02 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students' initial introduction to this exciting science. Microbiology George A. Wistreich, David W. Smith, 1988 **Food Microbiology** Karl R. Matthews, Kalmia E. Kniel, Faith J. Critzer, 2024-12-24 Leading textbook presenting all aspects of food microbiology. Food Microbiology An Introduction presents the basics of microorganisms that impact food safety and quality, the roles of beneficial microbes, food safety regulations and proper practices for safe and healthy foods throughout all aspects of the supply chain. This Fifth Edition has been updated to reflect advances in research and technology and threats to the global food supply while retaining the pedagogy and structure that students and professors appreciate. Written in a clear and easy to understand style the book is divided into four sections. Part I introduces the fundamentals of food microbiology including a brief history of the field, the growth processes of food microorganisms, the biology of spores and sporeformers, techniques for enumeration and detection of organisms in food, description of rapid and automated microbial methods and a new chapter focused on antimicrobial resistance. Part II addresses important regulatory issues and focuses on foodborne pathogenic microorganisms with chapters describing the most common bacterial species that cause foodborne diseases as well as discussion of parasites, viruses and prions. Part III explores nonpathogenic microbes important in food including those responsible for fermentations and food spoilage. Part IV focuses on the control of microorganisms in food including chemical, antimicrobials, biological and physical methods of food preservation, nonthermal processing and food safety systems. Food

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Microbiology Daniel V. Lim,1998 Introductory biology textbook for undergraduates with a fundamental background in biology and chemistry Color illustrations Rumen Ecosystem, The; The Microbial Metabolism and Its Regulation □□□□,1990

Textbook of Diagnostic Microbiology Connie R. Mahon,George Manuselis,2000 This 2nd Edition offers students a comprehensive approach to the essential information they need in identifying etiologic agents of infectious diseases New content has been added on emerging viral pathogens newly recognized parasitic agents emerging resistance and emerging technologies Pedagogical features include tables procedures case studies and illustrations Information is presented to beginning level students in a logical approach to microbiology progressing from core principles and concepts to systematic identification of etiologic agents of infectious disease A saleable instructor s CD ROM is also available

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Abstracts on Hygiene ,1973 Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology Noel R. Krieg,Michael Joseph Pelczar,1986

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General Microbiology Robert F. Boyd,1987-12 Microbiology Eugene W. Nester,2000

Microbiology and Pathology Alice Lorraine Smith,1976 **Microbiology** Jacquelyn G. Black,1996 **Microbiology Abstracts** ,1986-04

Xenobiotica ,1990 Covers three main areas general xenobiochemistry including the metabolism and disposition of drugs and environmental chemicals in animals plants and micro organisms and the related methodology molecular toxicology concerning mechanisms of toxicity and the study of toxicology at the molecular level and clinical pharmacokinetics and metabolism focusing on the pharmacokinetic behavior of foreign compounds in man

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