

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 PO₂⁻ → 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⁺

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Table of Contents Microbiology Chapter 5 Test Microbial Metabolism

1. Understanding the eBook Microbiology Chapter 5 Test Microbial Metabolism
 - The Rise of Digital Reading Microbiology Chapter 5 Test Microbial Metabolism
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Chapter 5 Test Microbial Metabolism
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbiology Chapter 5 Test Microbial Metabolism
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Chapter 5 Test Microbial Metabolism
 - Personalized Recommendations
 - Microbiology Chapter 5 Test Microbial Metabolism User Reviews and Ratings
 - Microbiology Chapter 5 Test Microbial Metabolism and Bestseller Lists
5. Accessing Microbiology Chapter 5 Test Microbial Metabolism Free and Paid eBooks
 - Microbiology Chapter 5 Test Microbial Metabolism Public Domain eBooks
 - Microbiology Chapter 5 Test Microbial Metabolism eBook Subscription Services
 - Microbiology Chapter 5 Test Microbial Metabolism Budget-Friendly Options

6. Navigating Microbiology Chapter 5 Test Microbial Metabolism eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbiology Chapter 5 Test Microbial Metabolism Compatibility with Devices
 - Microbiology Chapter 5 Test Microbial Metabolism Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbiology Chapter 5 Test Microbial Metabolism
 - Highlighting and Note-Taking Microbiology Chapter 5 Test Microbial Metabolism
 - Interactive Elements Microbiology Chapter 5 Test Microbial Metabolism
8. Staying Engaged with Microbiology Chapter 5 Test Microbial Metabolism
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Chapter 5 Test Microbial Metabolism
9. Balancing eBooks and Physical Books Microbiology Chapter 5 Test Microbial Metabolism
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Chapter 5 Test Microbial Metabolism
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Chapter 5 Test Microbial Metabolism
 - Setting Reading Goals Microbiology Chapter 5 Test Microbial Metabolism
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Chapter 5 Test Microbial Metabolism
 - Fact-Checking eBook Content of Microbiology Chapter 5 Test Microbial Metabolism
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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