

Module 11 Study Guide

Metabolism

Metabolic Pathways

- Several individual reactions
- **Catabolism: degradation** in which nutrients and cell constituents are **broken down** to salvage components and make energy
 - **Exergonic** oxidation of nutrient molecules
 - Free energy released and **used to drive endergonic processes**
- **Anabolism: biosynthesis**

Stepwise Oxidation of Metabolites During Glycolysis and Citric Acid Cycle

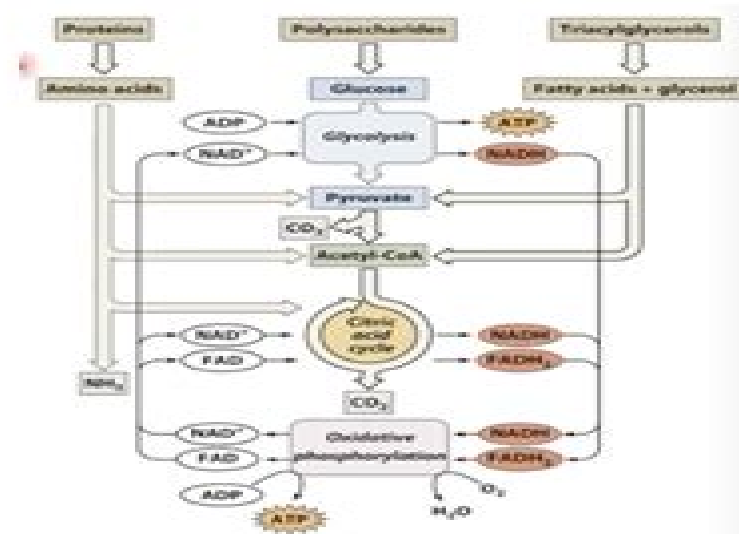
- Reduction of electron carriers **NADH and FADH₂**
- **NAD⁺ and FAD → Electron carriers**
 - **NAD⁺**: nicotinamide adenine dinucleotide
 - **Coenzyme**
 - **Two electron** reduction
 - **FAD**: flavin adenine dinucleotide
 - **One and two electron redox reactions**
 - Both must undergo **reversible reduction** so that they can accept electrons, pass them onto other electron carriers and thereby be regenerated to participate in additional cycles of oxidation and reduction
 - The protein components of redox enzyme play active roles in electron transfer reactions by modulating the reduction potentials of their bound redox active center
- Eventual release of carbon in fully oxidized form: **CO₂**
- Production of **ATP via substrate-level phosphorylation**

Oxidative Phosphorylation

- Oxidation of electron carriers **NADH and FADH₂** by ETC
- Passage of electrons down ETC to **O₂ → reducing O₂ to H₂O**
 - Cellular respiration at work
 - **Oxygen can only accept unpaired electrons** because each of its two available lowest energy molecular orbitals is already occupied by one electron
- **Creation of H⁺ gradient**
- H⁺ gradient coupled to ATP synthesis by ATP synthase
- Overall goal is to make ATP

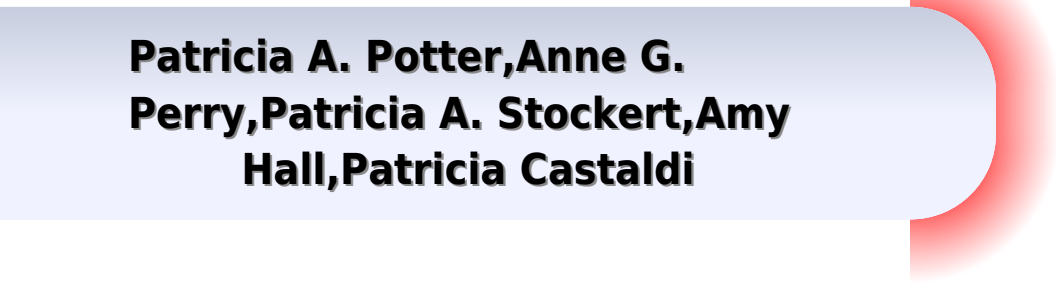
Generalizations

- Catabolic Pathways
 - **Extract energy by oxidizing fuel molecules** → input for biological macromolecules forced into the same process
 - Converge on a **few intermediates** (ex: Coenzyme A → acetyl coenzyme A)
 - **Generate ATP**
 - May generate **reducing power** and carbon skeletons by biosynthesis
 - Reduced electron carriers



Exercise Metabolism Study Guide Answers

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Table of Contents Exercise Metabolism Study Guide Answers

1. Understanding the eBook Exercise Metabolism Study Guide Answers
 - The Rise of Digital Reading Exercise Metabolism Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Exercise Metabolism Study Guide Answers
 - 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 Exercise Metabolism Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exercise Metabolism Study Guide Answers
 - Personalized Recommendations
 - Exercise Metabolism Study Guide Answers User Reviews and Ratings
 - Exercise Metabolism Study Guide Answers and Bestseller Lists

5. Accessing Exercise Metabolism Study Guide Answers Free and Paid eBooks
 - Exercise Metabolism Study Guide Answers Public Domain eBooks
 - Exercise Metabolism Study Guide Answers eBook Subscription Services
 - Exercise Metabolism Study Guide Answers Budget-Friendly Options
6. Navigating Exercise Metabolism Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Exercise Metabolism Study Guide Answers Compatibility with Devices
 - Exercise Metabolism Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exercise Metabolism Study Guide Answers
 - Highlighting and Note-Taking Exercise Metabolism Study Guide Answers
 - Interactive Elements Exercise Metabolism Study Guide Answers
8. Staying Engaged with Exercise Metabolism Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exercise Metabolism Study Guide Answers
9. Balancing eBooks and Physical Books Exercise Metabolism Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exercise Metabolism Study Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exercise Metabolism Study Guide Answers
 - Setting Reading Goals Exercise Metabolism Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exercise Metabolism Study Guide Answers
 - Fact-Checking eBook Content of Exercise Metabolism Study Guide Answers
 - 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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