

# Chapter 8: Microbial Metabolism

## Objectives:

- The metabolism of microbes
- Enzymes
- The pathways: glycolysis, Kreb's cycle, ETC, Fermentation
- Photosynthesis

## Why Do All Living Organisms Need Nutrition?

### Metabolism

- **Metabolism:** All chemical reactions and physical workings of the cell
- **Functions of metabolism:**
  - Assembles smaller molecules into larger macromolecules needed for the cell
  - Degrades macromolecules into smaller molecules and yields energy
  - Energy is conserved in the form of ATP or heat
- **Anabolism (biosynthesis):** any process that results in synthesis of cell molecules and structures (usually requires energy input)
- **Catabolism:** the breakdown of bonds of larger molecules into smaller molecules (often release energy)

### Enzymes

- Enzymes are catalysts
- Catalysts - chemicals that increase the rate of a chemical reaction without becoming part of the products or being consumed in the reaction
- Structure:
  - Most are protein
  - Can be classified as simple or conjugated:
    - Simple Enzymes - consist of protein alone
    - Conjugated Enzymes - contain protein and nonprotein molecules
      - A conjugated enzyme (**holo-enzyme**) is a combination of a protein (now called the **apo-enzyme**) and one or more **cofactors**
      - Cofactors are either organic molecules (**coenzymes**) or inorganic elements (metal ions)

### How do Enzymes Work

- **Energy of activation:** the amount of energy which must be overcome for a reaction to proceed.
- An enzyme promotes a reaction by serving as a physical site upon which the reactant molecules (**substrates**) can be positioned for various interactions.

### Apoenzymes: Specificity and the Active Site

# Microbiology Chapter Test Microbial Metabolism

**Scott C. Dulebohn**

## **Microbiology Chapter Test Microbial Metabolism:**

The Top Books of the Year Microbiology Chapter Test Microbial Metabolism The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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