

## 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 H<sub>2</sub>O
- Endergonic Reactions → use energy → By releasing the last phosphate in ATP → 3 PO<sub>4</sub><sup>-</sup> turns into 2 PO<sub>4</sub><sup>-</sup> → 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<sup>+</sup>, Fe<sup>+</sup>, Mg, Mn<sup>+</sup>

# Microbiology Chapter 5 Microbial Metabolism Test

**Eugene W. Nester**



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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

**Microbiology for the Health Sciences** Marcus M. Jensen,Donald N. Wright,Richard A. Robison,1997 Appropriate for courses in Microbiology for the Health Sciences A complete clinically oriented overview of basic medical microbiology this book provides a taxonomic approach to organism presentation using a pathogen oriented sequence that provides an understanding of the microbe in its setting regardless of the site of infection Its comprehensive coverage is specifically designed to be accessible to students with limited backgrounds in science

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**Abstracts on Hygiene** ,1973

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**General Microbiology** Robert F. Boyd,1987-12

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Jo Baron,1986      **Microbiology** Jacquelyn G. Black,1996 This text follows a body systems approach to microbiology paying attention to real life connections and covering such topics as the characteristics of microbial metabolism growth and genetics  
Microbiology Eugene W. Nester,2000      *Study Guide to Accompany Microbiology* Raúl J. Cano,Jaime S. Colomé,1985-02  
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implementation of the structure on a computer quantitative analysis of the structure which includes determining the amount of memory needed to store the structure and the time required to process the structure

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