

## 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

**Jacquelyn G. Black**



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**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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