

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 PO₄⁻ → 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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Introduction to Petroleum Biotechnology James G. Speight,Nour Shafik El-Gendy,2017-12-11 Introduction to Petroleum Biotechnology introduces the petroleum engineer to biotechnology bringing together the various biotechnology methods that are applied to recovery refining and remediation in the uses of petroleum and petroleum products A significant amount of petroleum is undiscoverable in reservoirs today using conventional and secondary methods This reference explains

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