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 PO2- → 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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Pommerville

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