

Part I: Important Principles of Metabolism

I. Why Study Metabolism?

- Useful for diagnostic and classification purposes
 - A bacterium's metabolism is genetically determined.
 - Can use biochemical tests to identify and classify organisms.
- An adaptable metabolism is an advantage.
 - For surviving different conditions
 - For colonizing and infecting a host
- It explains why microbes are ubiquitous.
 - Varied & unique metabolism enables bacteria to fill different niches.

II. Catabolism vs. Anabolism

- Metabolism is the sum of all the chemical processes carried out by a living organism.
- Metabolic reactions fall into one of two general categories:
 1. **Catabolism:** Larger molecules are degraded or broken down into smaller molecules
 - Catabolic reactions usually involve the release or transfer of energy
 - MAIN POINT OF CATABOLISM: To extract energy and form simpler end products
 2. **Anabolism:** Biosynthesis - larger molecules are built from smaller ones
 - Anabolic reactions require/steal energy
 - MAIN POINT OF ANABOLISM: To synthesize structures and to store energy in chemical bonds
- Enzymes serve as biological catalysts for both catabolic and anabolic activities.
 - Catalysts increase the rate of a chemical reaction without being consumed by the reaction.
 - They work by lowering the activation energy required by the chemical reaction.

III. Electron Transfer

- RECALL: Covalent bonds contain electrons.
- All catabolic reactions involve electron transfer, which allows energy to be captured in high-energy bonds in ATP and other similar molecules.
 - KEY IDEA: Electrons carry energy which are captured in chemical bonds.
- Electrons are transferred from one molecule to another molecule through oxidation and reduction reactions, i.e., redox reactions.
 - Oxidation: Loss of electrons
 - Reduction: Gain of electrons
 - KEY IDEA: Oxidation and reduction go hand-in-hand: When one molecule loses an electron, another molecule must gain an electron.
- In cells, redox reactions involve not only electrons but also the hydrogen atoms from which they are derived. In short... Wherever electrons go, protons tend to follow. Knowing this makes it easier to track the electrons.

Microbiology Chapter Test Microbial Metabolism

Jin-Ying Zhang



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