

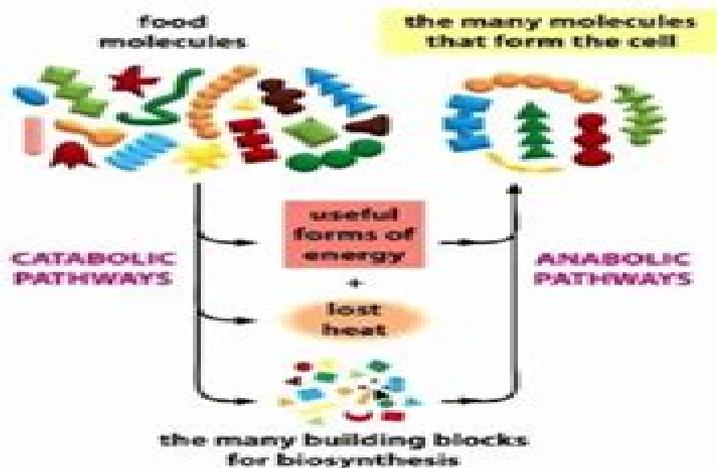
# Module 2: Metabolism/Photosynthesis/Enzymes

## 2.1, Metabolism

Metabolism – Refers to all chemical reactions occurring within a cell.

Anabolic Reactions – build up, consumes energy.

Catabolic Reaction – break down, releases energy.



### Catabolic and Anabolic Pathways

Catabolic Pathways	Anabolic Pathways	All Metabolic Pathways
Breakdown of molecules	Building molecules	Tightly regulated (occur only as needed)
Overall release energy	Overall consume energy	Necessary for cell survival
Rely on oxidized coenzymes (especially NAD <sup>+</sup> ) to oxidize intermediates	Rely on reduced coenzymes (especially NADPH) to reduce intermediates	Require enzymes
Example: cellular respiration	Example: lipid biosynthesis	—

**Enzymes** are biological catalysts, they accelerate a reaction by making it more energetically favorable. They lower the activation energy of a reaction. They are proteins, their structure being dictated by the DNA sequence that encodes for it. They are not used up in the reaction.

**Cofactor** – metal ions that activate or enhance enzyme activity (Ca<sup>2+</sup>, Zn<sup>2+</sup>)

**Substrate** – the target of the enzyme

# Metabolism Energy And Enzymes Study Guide

**Xiang Xie**



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