

Metabolism

Anabolism

Biosynthesis

Catabolism

Degradation



All cells do both types of metabolic reactions

Energy Conversions

Anabolism

Biosynthesis

Build Up



Energy Conversions

Potential Energy



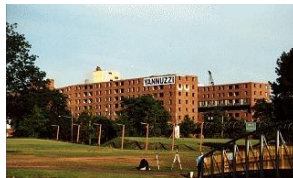
Energy Conversions

Catabolism
Degradation

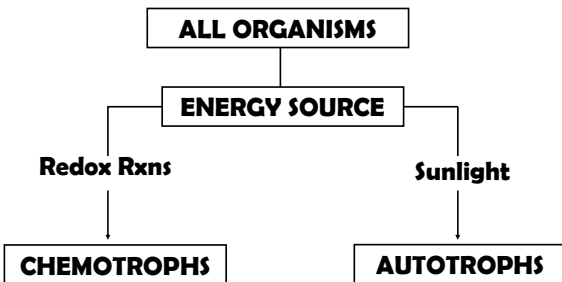


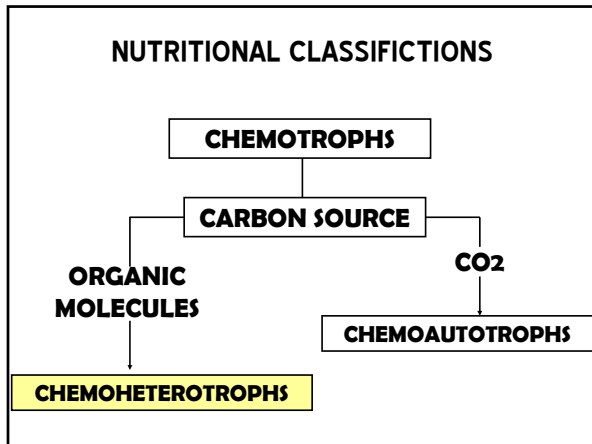
Potential Energy

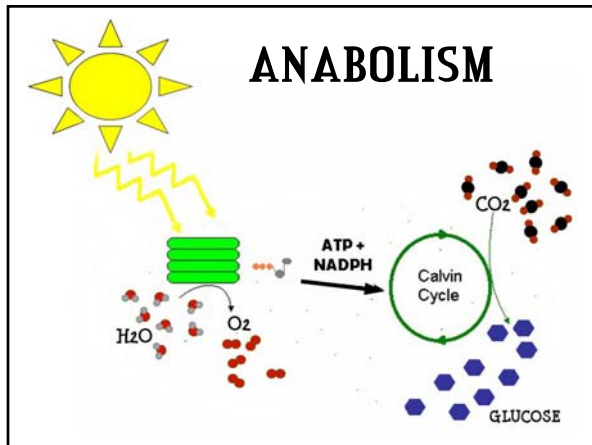
CHEMICAL ENERGY

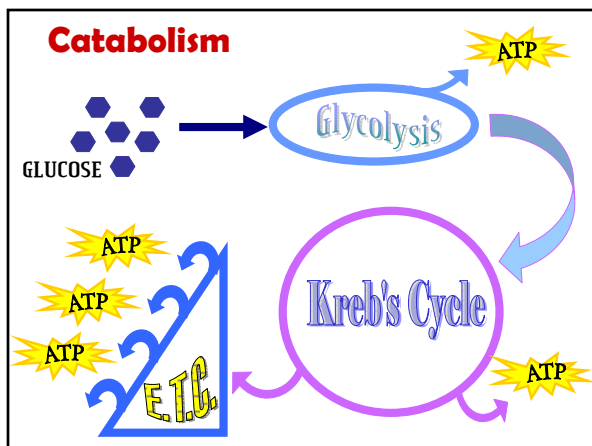


NUTRITIONAL CLASSIFICATIONS

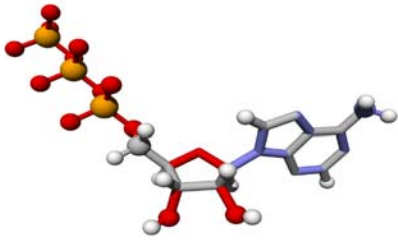




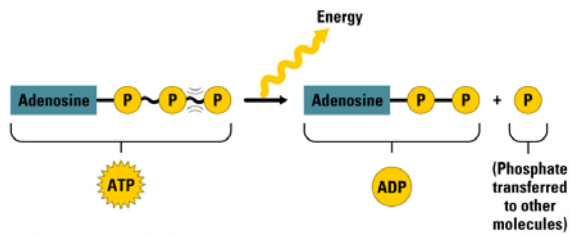




Adenosine Triphosphate



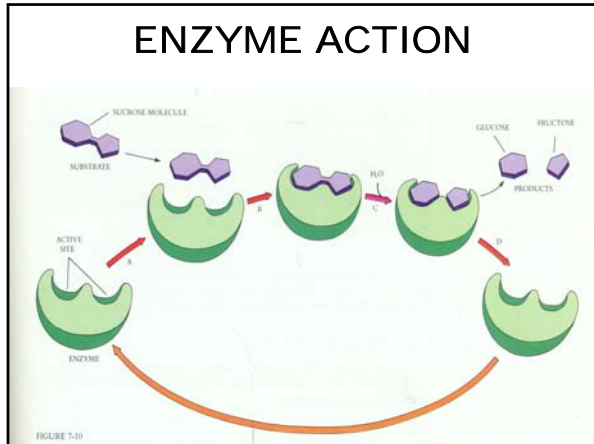
Benjamin Cummings



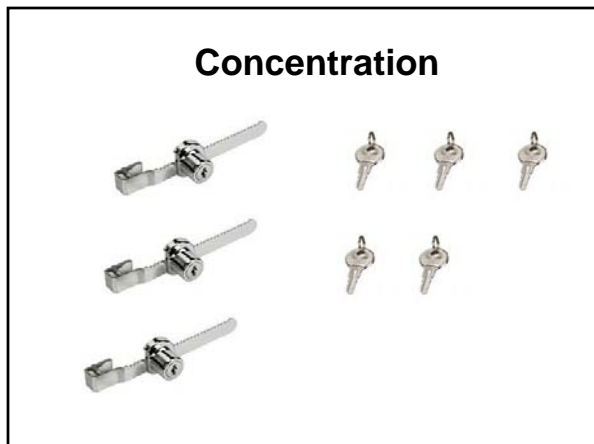
ENZYMES

Increase rate of metabolic reactions by lowering the activation energy required to start the reaction

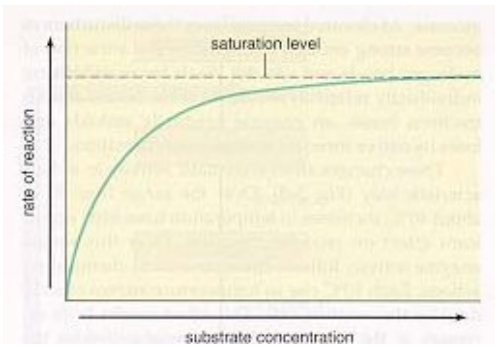




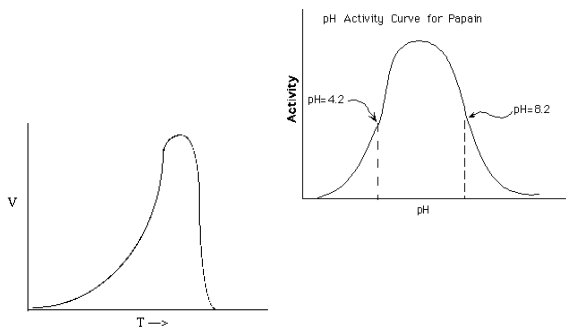
- ### Factors Affecting Enzyme Function
- **Substrate or Enzyme Concentration**
 - **Temperature**
 - **pH**
 - **Allosteric Regulators**
 - **Product Inhibition**
 - **Phosphorylation state**



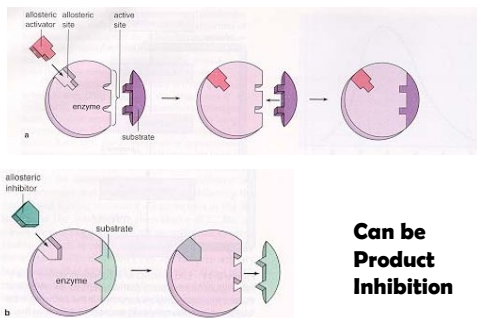
Factors Affecting Enzyme Function



Temperature & pH



Allosteric Regulation



Phosphorylation

