Source: [KBhBIO101AminoAcids]

1 | Enzymes

Proteins that build things up and break things down!

A macromolecular catalyst, it...

- 1. Speeds up the rate of reactions
- 2. Does not get consumed by the reaction
 - 1. Not a fundimental product
 - 2. Not a fundiment reactant
- 3. Shape determines the reactions that it can participate in
- 4. Enzymes are subject to **protean denaturation** => if the protein unfolds, its function will be lost. Triggered by excess heat, acid, and other problems
- (4) is unlike non-protein, inorganic catalyst inorganic non-proteins need to unwrap or wrap.

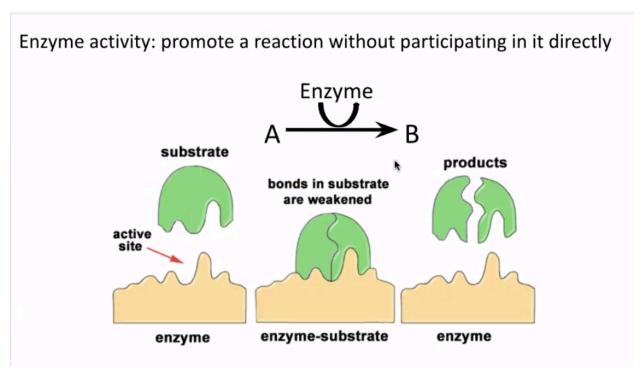


Figure 1: Screen Shot 2020-09-30 at 2.45.04 PM.png

The process of enzymes doing things.

- 1. The reactant (called "substrate") fits into a pocket ("active site") in the enzyme for the reaction to occur. Yes, there could be multiple active sites for multiple reactants
- 2. The enzyme rearrange itself slightly to hold the enzyme in place
- 3. A cofactor