

# Unit 3 study guide

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## Topic 3.1 : Enzyme Structure

### ENZYMES ARE MACROMOLECULES

- They are biological catalysts that speed up biochemical reactions
- Most enzymes are proteins
  - tertiary shape must be maintained for functionality
  - Have a region called an active site

### THE ACTIVE SITE INTERACTS WITH THE SUBSTRATE

- A molecule that can interact with an enzyme is called a substrate
- Enzymes have an active site , specifically interacts with substrates
  - The active site has a unique shape and size
  - can have chemical charges or not
  - Physical and Chemical properties of the substrate must be compatible.
  - Slight changes can occur to align with substrate
- Enzyme name often indicate the substrate or chemical reaction involved
  - Often ends in -ase
  - ex . Sucrase
- Enzymes are reusable
  - not chemically changed by the reaction
  - Cells typically maintain a specific enzyme concentration
- Enzymes can facilitate synthesis or digestion reactions

# Ap Macro Unit 3 Study Guide

**Yi-Tong Ma**



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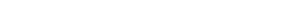
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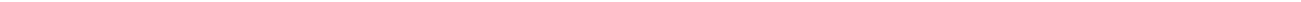

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