

## OUTLINE

## MAJOR POINTS:

1. Relationship between protein structure and function, especially those of enzymes
2. Overview of the mechanisms of enzyme inhibition. How does an enzyme become inhibited? How do you test for enzyme inhibition? (rough overview for this one only)
3. Techniques of protein structural characterization: CD spectroscopy, X-ray diffraction, protein NMR, cryo-EM
4. Techniques to support the modeling of protein structural information: Protein sequencing (including peptide MS, Edman degradation, translation from a known mRNA sequence, etc.), Protein size determination (protein mass spectroscopy, size exclusion chromatography, SDS Page)
5. Techniques to evaluate the quality of protein structural models: Ramachandran plot analysis, Rama-Z score
6. Techniques to determine protein affinity: Isothermal titration calorimetry

## SUBPOINTS:

1. Knowledge of typical enzymes and substrates; typical enzymatic reactions and pathways coming from previous Biochemistry course
2. Typical negative feedback control of enzymes in metabolic pathways
3. Knowledge of receptors and ligands; no need to delve into G protein signal transduction mechanisms and similar topics
4. General structures of biomolecules (amino acids, carbohydrates, lipids, nucleic acids) - maybe focus on amino acids
5. Structure of proline and glycine

## RELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION

- A protein's shape determines its function. Proteins are composed of amino acid subunits that form polypeptide chains. **Enzymes catalyze biochemical reactions by speeding up chemical reactions**, and can either break down their substrate or build larger molecules from their substrate.
- Protein is a molecule that can be made of several lengths of a poly-peptide chain, several hundred to several thousand amino acids connected together.

## Explanation:

- Within the chain there are the peptide bonds which are covalent ones. Then between the different amino acids are several other types of bonds that can be made leading to the folding of this chain in many different ways. This makes it possible for the protein to get the structure needed for the function. So if we need a flat sheet for a protein to harden in the nail for example, this protein can be made. If we need a globular protein with a dent on the side to make an enzyme, then the amino acids will arrange themselves in such a way and the different types of bonds will hold the shape.

## ENZYMES

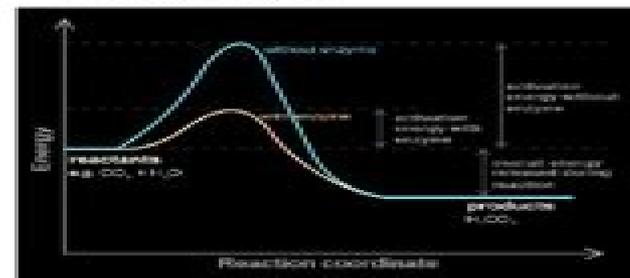
- Enzymes are biological catalysts. These are usually protein but some are RNA.
- Enzymes work by lowering the activation energy of reaction

## A. Specific to substrate

- Enzymes catalyze a few, if not single, substrates. These can even distinguish between stereoisomers.

## B. Massive output improvement

- Enzymes can increase the rate of uncatalyzed reaction by up to  $10^{17}$



## Enzyme Classification

- Enzymes are classified into six main groups, depending on their function
- Cellulase - breaks down cellulose which is a hydrolase

## Names

- Most enzymes are named after their substrate or function and the suffix -ase

## A. Oxidoreductase

- Catalyze redox reactions (electron transfer), adds or removes  $O_2$  or  $H_2$

# An Introduction To Physical Biochemistry

**J Elliott**



## **An Introduction To Physical Biochemistry:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **An Introduction To Physical Biochemistry**

In a world inundated with monitors and the cacophony of quick conversation, the profound energy and psychological resonance of verbal art usually fade in to obscurity, eclipsed by the regular assault of noise and distractions. However, situated within the lyrical pages of **An Introduction To Physical Biochemistry**, a captivating function of fictional beauty that pulses with natural emotions, lies an unforgettable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus guides visitors on an emotional odyssey, lightly exposing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect its interesting writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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