

In this lecture we learnt about:

- Enzyme structure has **four levels** namely primary, secondary, tertiary and quaternary.
- The amino acid sequence of enzyme is called as its **primary structure**.
- The interaction of amino acids in a chain is the secondary structure in enzymes.
- The two types of secondary structures are helical (called **α helices**) and pleated sheets (called **β pleated sheets**).
- The arrangement of amino acids in three dimensional space is the **Tertiary structure**.
- **Quaternary structure refers to the interaction between protein subunits**.
- Analysis of enzyme structure can be done with the help of following advanced analytical techniques/equipments such as **amino acid analyzer, peptide mapping, Edman degradation, mass spectroscopy, circular dichroism spectroscopy, fluorescence spectroscopy, X-ray crystallography, nuclear magnetic resonance**.

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