

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Biotechnology - NOC:Enzyme Sciences and Technology

Subject Co-ordinator - Prof. Vishal Trivedi

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to Enzymes
- Lecture 2 - Basics of Enzyme
- Lecture 3 - Enzyme Classification - Part I
- Lecture 4 - Enzyme Classification - Part II
- Lecture 5 - Enzyme Nomenclature
- Lecture 6 - Primary Structure of Enzyme
- Lecture 7 - Determination of Primary Structure
- Lecture 8 - Secondary Structure of Protein
- Lecture 9 - Tertiary Structure of Enzyme - Part I
- Lecture 10 - Tertiary Structure of Enzyme - Part II
- Lecture 11 - Molecular Modelling of Enzyme Structure - Part II
- Lecture 12 - Identification of Enzyme Gene - Part II
- Lecture 13 - Identification of Enzyme Gene - Part II
- Lecture 14 - Polymerase Chain Reaction
- Lecture 15 - Enzymes in Molecular Cloning
- Lecture 16 - Cloning of Enzyme Coding Gene
- Lecture 17 - DNA Delivery in host - Part I
- Lecture 18 - DNA Delivery in host - Part II
- Lecture 19 - Screening of Recombinant Clones
- Lecture 20 - Over-expression of Enzyme in host - Part I
- Lecture 21 - Over-expression of Enzyme in host - Part II
- Lecture 22 - Over-expression of Enzyme in host - Part III
- Lecture 23 - Host Cell Disruption Methods
- Lecture 24 - Basics of Chromatography
- Lecture 25 - Chromatography - Part I
- Lecture 26 - Chromatography - Part II
- Lecture 27 - Chromatography - Part III
- Lecture 28 - Carbohydrate Metabolism
- Lecture 29 - Lipid Metabolism

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- Lecture 30 - Amino acid Metabolism and Detoxification
- Lecture 31 - Enzyme-Substrate Interactions - Part I - Chromatographic Methods
- Lecture 32 - Enzyme-Substrate Interactions - Part II - Spectroscopic Methods
- Lecture 33 - Enzyme-Substrate Interactions - Part III - ITC
- Lecture 34 - Enzyme-Substrate Interactions - Part IV - SPR
- Lecture 35 - Enzyme Assay System - Part I
- Lecture 36 - Enzyme Assay System - Part II
- Lecture 37 - Enzyme Assay System - Part III
- Lecture 38 - Enzyme Kinetics
- Lecture 39 - Inhibitor Designing - Part I - Traditional Approach
- Lecture 40 - Inhibitor Designing - Part II - Modern Approach
- Lecture 41 - Inhibitor Designing - Part III - Computational Approach
- Lecture 42 - Enzyme Inhibition - Part I
- Lecture 43 - Enzyme Inhibition - Part II
- Lecture 44 - Application of Enzyme - Part I - Food Industry
- Lecture 45 - Application of Enzyme - Part II - Medical Field
- Lecture 46 - Enzyme in Drug Discovery
- Lecture 47 - Enzymes in Environmental Field