

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Organic Chemistry in Biology and Drug Development

Subject Co-ordinator - Prof. A. Basak

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - A brief introduction to Molecules of Life
- Lecture 2 - Biological Macromolecules and Small molecules
- Lecture 3 - Amino Acids
- Lecture 4 - Amino acids
- Lecture 5 - Method of determination of Amino acid sequence
- Lecture 6 - Selective peptide bond cleavage
- Lecture 7 - Peptide synthesis
- Lecture 8 - Peptide synthesis (Continued...) Protection, coupling and deprotection method
- Lecture 9 - Recent development of coupling agents; Merrifield's method of solid phase peptide synthesis
- Lecture 10 - Hierarchical structure of proteins
- Lecture 11 - Ramachandran plot and protein purification techniques
- Lecture 12 - Protein purification techniques (Continued...)
- Lecture 13 - Introduction to Enzymes and its kinetics
- Lecture 14 - Enzyme catalysed reactions and introduction to catalytic activity of proteases
- Lecture 15 - Enzyme Kinetics (Continued...)
- Lecture 16 - Concept of Enzyme Inhibition
- Lecture 17 - Concept of Enzyme Inhibition (Continued...)
- Lecture 18 - Problems on Enzyme Kinetics and Enzyme Inhibition
- Lecture 19 - Synthetic Biology
- Lecture 20 - Synthetic Biology (Continued...)
- Lecture 21 - Synthetic Biology (Continued...)
- Lecture 22 - Nucleic Acid
- Lecture 23 - Nucleic Acid (Continued...)
- Lecture 24 - DNA sequencing method
- Lecture 25 - DNA sequencing method (Continued...)
- Lecture 26 - DNA sequencing method (Continued...)
- Lecture 27 - Synthesis of oligonucleotide
- Lecture 28 - Central dogma
- Lecture 29 - Central dogma

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- Lecture 30 - Central dogma
- Lecture 31 - Central dogma
- Lecture 32 - Central dogma
- Lecture 33 - Molecular Biology
- Lecture 34 - Molecular Biology (Continued...)
- Lecture 35 - Chemistry of cofactors/coenzymes
- Lecture 36 - Chemistry of cofactors/coenzymes (Continued...)
- Lecture 37 - Chemistry of cofactors/coenzymes (Continued...)
- Lecture 38 - Chemistry of cofactors/coenzymes (Continued...)
- Lecture 39 - Chemistry of cofactors/coenzymes (Continued...)
- Lecture 40 - Chemistry of cofactors/coenzymes (Continued...)
- Lecture 41 - Introduction to Drug Discovery Process
- Lecture 42 - Fundamental Principles of Drug Development Process
- Lecture 43 - Combinatorial chemistry
- Lecture 44 - Neurotransmitters
- Lecture 45 - Catechol amine based and GABA neurotransmitters
- Lecture 46 - Hypertension
- Lecture 47 - Inhibitor design of angiotensin converting enzyme
- Lecture 48 - Antimicrobial drugs
- Lecture 49 - Chemistry of penicillins
- Lecture 50 - Resistance to beta-lactam antibiotics
- Lecture 51 - Mechanistic studies of beta-lactamase
- Lecture 52 - Non beta-lactam antibiotics
- Lecture 53 - Mechanistic enzymology of Isopenicillin N synthase
- Lecture 54 - Polyketide Biosynthesis
- Lecture 55 - Biosynthesis of macrolide polyketides and introduction to virus
- Lecture 56 - Anti-viral drugs
- Lecture 57 - Cancer and Chemotherapy
- Lecture 58 - Anti-cancer drugs (Continued...)
- Lecture 59 - Aromatase inhibition and Anti-ulcer drugs
- Lecture 60 - Cholesterol lowering agents
- Lecture 61 - Cholesterol Biosynthesis
- Lecture 62 - Pharmacokinetics and pharmacodynamics
- Lecture 63 - QSAR principles