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

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NPTEL Video Course - Chemistry and Biochemistry - NOC: Essentials of Biomolecules: Nucleic Acids and Peptides
Subject Co-ordinator - Prof. Lal Mohan Kundu
Co-ordinating Institute - IIT - Guwahati
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Importance of Biomolecules
Lecture 2 - DNA double helix
Lecture 3 - DNA and Proteins
Lecture 4 - Amino acids and Proteins
Lecture 5 - Protein 3D structures, folding and denaturation
Lecture 6 - Chemical synthesis pyrimidine nucleobases
Lecture 7 - Chemical synthesis purine nucleobases, Prebiotic chemistry
Lecture 8 - Synthesis of nucleosides
Lecture 9 - Solid phase DNA synthesis
Lecture 10 - Chemistry and Biology of DNA Replication
Lecture 11 - Chemistry of Polymerase Chain Reaction
Lecture 12 - Major components and steps involved in Polymerase chain reaction
Lecture 13 - DNA sequencing
Lecture 14 - DNA sequencing
Lecture 15 - Numerical Problem-1
Lecture 16 - Sugar Chemistry
Lecture 17 - Chemistry behind DNA damage and mutation
Lecture 18 - Chemistry behind DNA damage and mutation
Lecture 19 - DNA repair
Lecture 20 - Transcription - The transfer of genetic information from DNA to mRNA
Lecture 21 - Translation - The transfer of genetic information from mRNA to protein I
Lecture 22 - Translation - The transfer of genetic information from mRNA to protein II
Lecture 23 - Role of Ribosome in protein synthesis and the concept of codon
Lecture 24 - Protein sequencing using Sanger's and Edman's degradation methods
Lecture 25 - Mass spectroscopy and other sequencing methods for large proteins
Lecture 26 - Solution phase peptide synthesis
Lecture 27 - Peptide coupling agents, Solid phase synthesis, peptide based therapeutics
Lecture 28 - Spectroscopic techniques
Lecture 29 - Spectrospic techniques - II and Purification technique-I of biomolecules
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Lecture 30 - Purification techniques - II and Characteriation techniques of biomolecules
Lecture 31 - Molecular probes
Lecture 32 - Molecular Probes
Lecture 33 - Carbohydrate chemistry - I
Lecture 34 - Carbohydrate chemistry - II
Lecture 35 - Carbohydrate chemistry - III
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