

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

NPTEL Video Course - Biotechnology - NOC:Fundamentals of Protein Chemistry

Subject Co-ordinator - Prof. Swagata Dasgupta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Amino Acids - I
Lecture 2 - Amino Acids - II
Lecture 3 - Amino Acids - III
Lecture 4 - The Peptide Bond
Lecture 5 - Discussion Class
Lecture 6 - Primary Structure
Lecture 7 - Secondary Structure
Lecture 8 - Tertiary and Quaternary Structure
Lecture 9 - Protein Interactions
Lecture 10 - Discussion Class
Lecture 11 - Protein folding and structure
Lecture 12 - Thermodynamics of Protein Folding
Lecture 13 - Protein Structure Methods
Lecture 14 - Protein Denaturation
Lecture 15 - Discussion Class
Lecture 16 - Protein Isolation Methods
Lecture 17 - Protein Purification
Lecture 18 - Biophysical Methods - I
Lecture 19 - Biophysical Methods - II
Lecture 20 - Biophysical Methods - III
Lecture 21 - Types of Protein ligand interactions
Lecture 22 - Kinetics and Thermodynamics of protein-ligand binding
Lecture 23 - Experimental methods in protein ligand interactions
Lecture 24 - Protein ligand docking
Lecture 25 - Discussion class
Lecture 26 - Enzymes I - Classification
Lecture 27 - Enzymes - II
Lecture 28 - Enzyme Mechanisms - I
Lecture 29 - Enzyme Mechanisms - II

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Lecture 30 - Enzyme mechanisms - III
Lecture 31 - Enzyme Kinetics - I
Lecture 32 - Enzyme Kinetics - II
Lecture 33 - Enzyme Inhibition - I
Lecture 34 - Enzyme Inhibition - II
Lecture 35 - Discussion class
Lecture 36 - Motor Proteins - I
Lecture 37 - Motor Proteins - II
Lecture 38 - Metalloproteins - I
Lecture 39 - Metalloproteins - II
Lecture 40 - Myoglobin and Hemoglobin
Lecture 41 - Membrane Proteins - I
Lecture 42 - Membrane proteins - II
Lecture 43 - Membrane Transport - I
Lecture 44 - Membrane Transport - II
Lecture 45 - Electron Transport Chain
Lecture 46 - Protein Carbohydrate Interactions - I
Lecture 47 - Protein Carbohydrate Interactions - II
Lecture 48 - Protein Nucleic Acid Interactions - I
Lecture 49 - Protein Nucleic Acid Interactions - II
Lecture 50 - Protein Nucleic Acid Interactions - III
Lecture 51 - Protein Protein Interactions - I
Lecture 52 - Protein Protein Interactions - II
Lecture 53 - Protein Peptide Interactions
Lecture 54 - Chaperone proteins
Lecture 55 - Protein Nanoparticle Interactions
Lecture 56 - Oxidative stress in Proteins
Lecture 57 - Enzyme action and Proteolytic cleavage
Lecture 58 - Intrinsically disordered proteins
Lecture 59 - Viral proteins
Lecture 60 - Overview of Course