

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

NPTEL Video Course - Biotechnology - NOC:Biochemistry (IITM)

Subject Co-ordinator - Prof. Subramaniam K

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Biomolecules - Part 1
Lecture 2 - Introduction to Biomolecules - Part 2
Lecture 3 - Stereochemistry and Properties of Water - Part 1
Lecture 4 - Properties of Water - Part 2 and Introduction to Proteins
Lecture 5 - Characteristics of Proteins and Chromatography techniques
Lecture 6 - Electrophoresis of Proteins and Protein Sequencing
Lecture 7 - Synthesis of Polypeptides and Enzymes - Part 1
Lecture 8 - Enzymes - Part 2
Lecture 9 - Enzymes - Part 3
Lecture 10 - Enzymes - Part 4
Lecture 11 - Enzymes - Part 5 and Carbohydrates - Part 1
Lecture 12 - Carbohydrates - Part 2 and Lipids - Part 1
Lecture 13 - Lipids - Part 2
Lecture 14 - Lipids - Part 3 and Introduction to Metabolism - Part 1
Lecture 15 - Introduction to metabolism - Part 2
Lecture 16 - Bioenergetics - Part 1
Lecture 17 - Bioenergetics - Part 2
Lecture 18 - Glycolysis - Part 1
Lecture 19 - Glycolysis - Part 2
Lecture 20 - Citric Acid Cycle - Part 1
Lecture 21 - Citric Acid Cycle - Part 2
Lecture 22 - Oxidative Phosphorylation - Part 1
Lecture 23 - Oxidative Phosphorylation - Part 2
Lecture 24 - Photosynthesis and Carbon assimilation - Part 1
Lecture 25 - Photosynthesis and Carbon Assimilation - Part 2
Lecture 26 - Photosynthesis and Carbon assimilation - Part 3
Lecture 27 - Nitrogen Metabolism
Lecture 28 - Catabolism of Amino acids
Lecture 29 - Urea cycle and Fatty acid catabolism - Part 1

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- Lecture 30 - Fatty acid catabolism - Part 2
- Lecture 31 - Fatty Acid Biosynthesis
- Lecture 32 - Cholestrol Biosynthesis and Lipid transport - Part 1
- Lecture 33 - Cholestrol Biosynthesis and Lipid transport - Part 2
- Lecture 34 - Hormonal Regulation and Integration of Mammalian Metabolism