

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

NPTEL Video Course - Biotechnology - NOC:Introduction to Cell Biology

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - An Overview of Central Dogma of Molecular Biology - Part 1
- Lecture 2 - An Overview of Central Dogma of Molecular Biology - Part 2
- Lecture 3 - Central Dogma : The DNA Structure - Part 1
- Lecture 4 - Central Dogma : The DNA Structure - Part 2
- Lecture 5 - Central Dogma : The DNA Structure - Part 3
- Lecture 6 - Central Dogma : Replication of DNA - Part 1
- Lecture 7 - Central Dogma : Replication of DNA - Part 2
- Lecture 8 - Central Dogma : Transcription - Part 1
- Lecture 9 - Central Dogma : Transcription - Part 2
- Lecture 10 - Central Dogma : Transcription - Part 3
- Lecture 11 - Central Dogma : Translation - Part 1
- Lecture 12 - Central Dogma : Translation - Part 2
- Lecture 13 - Central Dogma : Translation - Part 3
- Lecture 14 - Protein Structure, Folding and Function - Part 1
- Lecture 15 - Protein Structure, Folding and Function - Part 2
- Lecture 16 - Secondary Structure of Proteins: Ramachandran Plot - Part 1
- Lecture 17 - Secondary Structure of Proteins: Ramachandran Plot - Part 2
- Lecture 18 - Protein Structure, Folding and Function - Part 3
- Lecture 19 - Protein Structure, Folding and Function - Part 4
- Lecture 20 - Protein Structure, Folding and Function - Part 5
- Lecture 21 - Protein Structure, Folding and Function - Part 6
- Lecture 22 - Enzymes, Carbohydrates and Lipids
- Lecture 23 - Introduction to Genetics - Part 1
- Lecture 24 - Introduction to Genetics - Part 2
- Lecture 25 - Introduction to Genetics - Part 3
- Lecture 26 - Mendelian and Non-Mendelian Genetics - Part 1
- Lecture 27 - Mendelian and Non-Mendelian Genetics - Part 2
- Lecture 28 - Mendelian and Non-Mendelian Genetics - Part 3
- Lecture 29 - Introduction to Microscopy - Part 1

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- Lecture 30 - Introduction to Microscopy - Part 2
- Lecture 31 - Introduction to Microscopy - Part 3
- Lecture 32 - Biology of Cells - Part 1
- Lecture 33 - Biology of Cells - Part 2
- Lecture 34 - Complexity and Compartmentalization in Cells - Part 1
- Lecture 35 - Complexity and Compartmentalization in Cells - Part 2
- Lecture 36 - Endosymbiont Theory
- Lecture 37 - Structure of the Cell: Cell Wall and Cell Membrane
- Lecture 38 - Structure of the Cell: Discussion Session
- Lecture 39 - Plasma Membrane: The Boundaries of Life
- Lecture 40 - Plasma Membrane: Discussion Session
- Lecture 41 - Introduction to Cytoskeleton - Part 1
- Lecture 42 - Cytoskeleton: Discussion Session 1
- Lecture 43 - Introduction to Cytoskeleton - Part 2
- Lecture 44 - Cytoskeleton: Discussion Session 2
- Lecture 45 - Motor Proteins in Cell
- Lecture 46 - Motor Proteins in Cell: Discussion Session
- Lecture 47 - Discussion on Directionality of Motor Protein
- Lecture 48 - Endomembrane System of Cells - Part 1
- Lecture 49 - Endomembrane System of Cells: Discussion Session 1
- Lecture 50 - Endomembrane System of Cells - Part 2
- Lecture 51 - Endomembrane System of Cells: Discussion Session 2
- Lecture 52 - Endomembrane System of Cells - Part 3
- Lecture 53 - Endomembrane System of Cells: Discussion Session 3
- Lecture 54 - Endomembrane System of Cells - Part 4
- Lecture 55 - Endomembrane System of Cells: Discussion Session 4
- Lecture 56 - Cell Division
- Lecture 57 - Cell Division: Discussion session
- Lecture 58 - Discussion Session on Organization and Function of a Cell