

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

NPTEL Video Course - Biotechnology - NOC:Cell and Molecular Biology

Subject Co-ordinator - Prof. Vishal Trivedi

Co-ordinating Institute - IIT Guwahati

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

- Lecture 1 - Origin of Life - Part 1
- Lecture 2 - Origin of Life - Part 2
- Lecture 3 - Basics of Evolution
- Lecture 4 - Theories of Evolution - Part 1
- Lecture 5 - Theories of Evolution - Part 2
- Lecture 6 - Prokaryotic Cells
- Lecture 7 - Eukaryotic Cells - Part 1
- Lecture 8 - Eukaryotic Cells - Part 2
- Lecture 9 - Cell Growth and regulation
- Lecture 10 - Cell Growth Medium
- Lecture 11 - Cell Growth Monitoring
- Lecture 12 - Cell Cycle
- Lecture 13 - Mitosis and Meiosis
- Lecture 14 - Apoptosis and Autophagy
- Lecture 15 - Transport in Prokaryotic Cells
- Lecture 16 - Transport in Eukaryotic Cells - Part 1
- Lecture 17 - Transport in Eukaryotic Cells - Part 2
- Lecture 18 - Cellular Communication - Part 1
- Lecture 19 - Cellular Communication - Part 2
- Lecture 20 - Cellular Communication - Part 3
- Lecture 21 - Genetic Material in Organism
- Lecture 22 - Organization of Genome - Part 1
- Lecture 23 - Organization of Genome - Part 2
- Lecture 24 - Genome Damage and Repair Mechanism
- Lecture 25 - Law of Inheritance - Part 1
- Lecture 26 - Law of Inheritance - Part 2
- Lecture 27 - Epigenetics
- Lecture 28 - Genetic Recombination
- Lecture 29 - Transgenic Organisms

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- Lecture 30 - Gene Regulation in Organism
- Lecture 31 - Structure of DNA - Part 1
- Lecture 32 - Structure of DNA - Part 2
- Lecture 33 - Structure of RNA
- Lecture 34 - Central Dogma of Molecular Biology
- Lecture 35 - Replication - Part 1
- Lecture 36 - Replication - Part 2
- Lecture 37 - Replication - Part 3
- Lecture 38 - Transcription - Part 1
- Lecture 39 - Transcription - Part 2
- Lecture 40 - Translation
- Lecture 41 - Components of Immune System
- Lecture 42 - Antibody
- Lecture 43 - Vaccines
- Lecture 44 - Gene Therapy
- Lecture 45 - Cell Factory: Concept and Application
- Lecture 46 - Summary and Conclusion