NPTEL Video Course - Biotechnology - NOC:Bioengineering: An Interface with Biology and Medicine

Subject Co-ordinator - Prof. Sanjeeva Srivastava

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Why biology for engineers - Part I
Lecture 2 - Why biology for engineers - Part II
Lecture 3 - Life processes and Cell
Lecture 4 - Cell and its properties
Lecture 5 - Clinicianâ s Perspective - I
Lecture 6 - Nucleic Acid and Central Dogma
Lecture 7 - DNA Tools
Lecture 8 - DNA Tools
Lecture 9 - DNA Tools and Biotechnology - I
Lecture 10 - DNA Tools and Biotechnology - II
Lecture 11 - DNA Tools and Biotechnology - III
Lecture 12 - DNA Tools and Biotechnology - IV
Lecture 13 - DNA Tools and Biotechnology - V
Lecture 14 - DNA Tools and Biotechnology - VI
Lecture 15 - Clinicianâ s Perspective - II
Lecture 16 - Genetics - I
Lecture 17 - Genetics - II
Lecture 18 - Genetics - III
Lecture 19 - Genetics - IV
Lecture 20 - Clinicianâ s Perspective - III
Lecture 21 - Chromosomal basis of inheritance
Lecture 22 - Linkage, chromosomal disorders
Lecture 23 - Classical Genetics Experiments
Lecture 24 - Bacteria and Viruses
Lecture 25 - Clinicianâ s Perspective - IV
Lecture 26 - Cell cycle disregulation and Cancer
Lecture 27 - Developmental Biology
Lecture 28 - Principles and application of Animal Cloning
Lecture 29 - Evolution

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Lecture 30 - Clinicianâ  s Perspective - V
Lecture 31 - Amino acids and proteins
Lecture 32 - Proteins and Proteomics
Lecture 33 - Techniques to Study Protein and Proteome - I
Lecture 34 - Techniques to Study Protein and Proteome - II
Lecture 35 - Bioinformatics - I
Lecture 36 - Techniques to Study Protein and Proteome - III
Lecture 37 - Protein Interactions and Microarrays
Lecture 38 - Protein interactions and Systems biology
Lecture 39 - Bioinformatics - II
Lecture 40 - Ethics in Research and Publications
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