

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

NPTEL Video Course - Biotechnology - NOC:Genetic Engineering: Theory and Application

Subject Co-ordinator - Dr. Vishal Trivedi

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Cellular Structure - Part I
Lecture 2 - Cellular Structure - Part II
Lecture 3 - Cellular Structure - Part III
Lecture 4 - Metabolic Reactions in Biological System
Lecture 5 - Growth Media For Different Expression System
Lecture 6 - Microbial Growth Kinetics
Lecture 7 - Isolation of a Gene Fragment - Part I
Lecture 8 - Isolation of a Gene Fragment - Part II
Lecture 9 - Isolation of a Gene Fragment - Part III
Lecture 10 - Polymerase Chain Reaction
Lecture 11 - Molecular Tools for Cloning
Lecture 12 - Cloning Vectors - I
Lecture 13 - Cloning Vectors - II
Lecture 14 - DNA Delivery In Host - Part I
Lecture 15 - DNA Delivery In Host - Part II
Lecture 16 - Screening of Recombinant Clones
Lecture 17 - Protein Production in Host - Part 1
Lecture 18 - Protein Production in Host - Part 2
Lecture 19 - Protein Production in Host - Part 3
Lecture 20 - Product Recovery from Host Cells
Lecture 21 - Basics of Chromatography - Part 1
Lecture 22 - Basics of Chromatography - Part 2
Lecture 23 - Ion-exchange Chromatography
Lecture 24 - Hydrophobic Interaction Chromatography
Lecture 25 - Gel Filtration chromatography - Part 1
Lecture 26 - Gel Filtration chromatography - Part 2
Lecture 27 - Affinity Chromatography - Part 1
Lecture 28 - Affinity Chromatography - Part 2
Lecture 29 - Affinity Chromatography - Part 3

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- Lecture 30 - Affinity Chromatography - Part 4
- Lecture 31 - Electrophoresis - Part 1
- Lecture 32 - Electrophoresis - Part 2
- Lecture 33 - Electrophoresis - Part 3
- Lecture 34 - Protein Sequencing
- Lecture 35 - Spectroscopy - Part I
- Lecture 36 - Spectroscopy - Part II
- Lecture 37 - Biotechnology Applications - Part 1
- Lecture 38 - Biotechnology Applications - Part 2
- Lecture 39 - Biotechnology Applications - Part 3
- Lecture 40 - Summary and Conclusions - Part 1
- Lecture 41 - Summary and Conclusions - Part 2