

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

NPTEL Video Course - Biotechnology - NOC:BioInformatics - Algorithms and Applications

Subject Co-ordinator - Prof. M. Michael Gromiha

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Concepts and importance of Bioinformatics
Lecture 2 - Complexities in biological systems
Lecture 3 - DNA sequence analysis
Lecture 4 - Sequence based parameters
Lecture 5 - Database
Lecture 6 - Database categories
Lecture 7 - Protein structure and function - I
Lecture 8 - Protein structure and function - II
Lecture 9 - Protein sequence databases - I
Lecture 10 - Protein sequence databases - II
Lecture 11 - Pairwise alignment - I
Lecture 12 - Pairwise alignment - II
Lecture 13 - Uniprot Demo
Lecture 14 - Sequence alignment - I
Lecture 15 - Sequence alignment - II
Lecture 16 - Sequence alignment
Lecture 17 - Sequence alignment
Lecture 18 - Conservation score - I
Lecture 19 - Conservation score - II
Lecture 20 - Blast Demo
Lecture 21 - Phylogenetic trees - I
Lecture 22 - Phylogenetic trees - II
Lecture 23 - Protein sequence analysis - I
Lecture 24 - Protein sequence analysis - II
Lecture 25 - Hydrophobicity profiles
Lecture 26 - Patterns and PSSM profiles
Lecture 27 - Construction of Non-redundant datasets - I
Lecture 28 - Non-redundant datasets - II
Lecture 29 - Protein secondary structure

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- Lecture 30 - Secondary structure prediction - I
- Lecture 31 - Secondary structure prediction - II
- Lecture 32 - Secondary structure prediction - III
- Lecture 33 - Protein tertiary structure - I
- Lecture 34 - Protein tertiary structure - II
- Lecture 35 - Protein structure analysis - I
- Lecture 36 - Protein structure analysis - II
- Lecture 37 - Protein structure analysis - III
- Lecture 38 - Demo
- Lecture 39 - Protein structure analysis - IV
- Lecture 40 - Protein structure prediction - I
- Lecture 41 - Protein structure prediction - II
- Lecture 42 - Protein stability - I
- Lecture 43 - Protein stability - II
- Lecture 44 - Demo
- Lecture 45 - Stabilizing residues
- Lecture 46 - Thermodynamic database
- Lecture 47 - Stability of proteins upon mutations - I
- Lecture 48 - Stability of proteins upon mutations - II
- Lecture 49 - Demo
- Lecture 50 - Protein folding rate - I
- Lecture 51 - Protein folding rate - II
- Lecture 52 - Protein interactions - I
- Lecture 53 - Protein interactions - II
- Lecture 54 - Computer aided drug design - I
- Lecture 55 - Computer aided drug design - II
- Lecture 56 - Virtual screening - I
- Lecture 57 - Virtual screening - II
- Lecture 58 - QSAR - I
- Lecture 59 - QSAR - II
- Lecture 60 - Demo
- Lecture 61 - awk programming - I
- Lecture 62 - awk programming - II
- Lecture 63 - Development of algorithms - I
- Lecture 64 - Development of algorithms - II
- Lecture 65 - Applications of bioinformatics - I
- Lecture 66 - Applications of bioinformatics - II
- Lecture 67 - Overview - I
- Lecture 68 - Overview - II

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Lecture 69 - Demo

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