

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

NPTEL Video Course - Biotechnology - NOC:Introduction to Proteogenomics

Subject Co-ordinator - Prof. Sanjeeva Srivastava

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Proteogenomics overview - I
Lecture 2 - Proteogenomics overview - II
Lecture 3 - Introduction to Genomics - Part I
Lecture 4 - Introduction to Genomics - Part II
Lecture 5 - Introduction to Genomics - Part III
Lecture 6 - Perspectives in Proteogenomics - I
Lecture 7 - Advancement in Cancer Genomics
Lecture 8 - Introduction to Genomics - Part IV
Lecture 9 - Introduction to Genomics - cBioPortal
Lecture 10 - Genotype, Gene expression and Phenotype - I
Lecture 11 - Genotype, Gene expression and Phenotype - II
Lecture 12 - An overview of NGS technology
Lecture 13 - NGS - Sequencing by synthesis - I
Lecture 14 - NGS - Sequencing by synthesis - II
Lecture 15 - Introduction to Proteomics
Lecture 16 - Proteomics
Lecture 17 - Applications of Proteomics
Lecture 18 - Introduction to MS-based Proteomics - I
Lecture 19 - Introduction to MS-based Proteomics - II
Lecture 20 - Applications of NGS - IonTorrent
Lecture 21 - Genomic Analysis using Droplet PCR - I
Lecture 22 - Introduction to MS-based Proteomics - I (Hands-on session)
Lecture 23 - Introduction to MS-based Proteomics - II (Hands-on session)
Lecture 24 - Data analysis
Lecture 25 - Data analysis
Lecture 26 - Data analysis
Lecture 27 - Genomic Analysis using Droplet PCR - II
Lecture 28 - Topics in Proteogenomics
Lecture 29 - Machine learning and Clustering

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Lecture 30 - Hypothesis testing
Lecture 31 - ProTIGY - I
Lecture 32 - ProTIGY - II
Lecture 33 - Proteomics Data Analysis
Lecture 34 - Proteomics Lab Demonstration - I
Lecture 35 - Proteomics Lab Demonstration - II
Lecture 36 - Workflow to Automated Data Processing
Lecture 37 - Introduction to Fire Cloud
Lecture 38 - FireCloud and Data Model
Lecture 39 - Bioinformatics solutions for Big Data Analysis - I
Lecture 40 - Bioinformatics solutions for Big Data Analysis - II
Lecture 41 - Introduction to Targeted Proteomics
Lecture 42 - Data analysis using Skyline
Lecture 43 - Large-scale data Science - I
Lecture 44 - Large-scale data Science - II
Lecture 45 - Large-scale data Science - III
Lecture 46 - DIA-SWATH Atlas - I
Lecture 47 - DIA-SWATH Atlas - II
Lecture 48 - Prediction Analysis
Lecture 49 - Pathway Enrichment and Network Analysis
Lecture 50 - Human Protein Atlas - I
Lecture 51 - Human Protein Atlas - II
Lecture 52 - Affinity based proteomics & HPA
Lecture 53 - Clinical Considerations for OMICS - I
Lecture 54 - Clinical Considerations for OMICS - II
Lecture 55 - Topics in Proteogenomics
Lecture 56 - Integrative Genomics Viewer (IGV)
Lecture 57 - Introduction to Proteogenomics - I
Lecture 58 - Introduction to Proteogenomics - II
Lecture 59 - Sequence centric proteogenomics
Lecture 60 - Variant Analysis
Lecture 61 - Proteomics - Clinical Applications
Lecture 62 - Perspectives in Proteogenomics - II
Lecture 63 - Predictive Analysis - I
Lecture 64 - Predictive Analysis - II
Lecture 65 - Association/ Marker Selection
Lecture 66 - WebGestalt - I
Lecture 67 - WebGestalt - II
Lecture 68 - Perspectives in Proteogenomics - III

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- Lecture 69 - Network Analysis - I
- Lecture 70 - Network Analysis - II
- Lecture 71 - Mutations and Signaling - I
- Lecture 72 - Mutations and Signaling - II
- Lecture 73 - Pathway Enrichment - I
- Lecture 74 - Perspectives in Proteogenomics - IV
- Lecture 75 - Pathway Enrichment - II
- Lecture 76 - Sequence - GSEA
- Lecture 77 - Linked Omics - I
- Lecture 78 - Linked Omics - II
- Lecture 79 - Proteogenomics - Opportunities and Challenges
- Lecture 80 - Perspectives in Proteogenomics - V