

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

NPTEL Video Course - Biotechnology - NOC:Interactomics: Basics and Applications

Subject Co-ordinator - Prof. Sanjeeva Srivastava

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction to Proteomics
Lecture 2 - Introduction to Interactomics
Lecture 3 - High throughput platforms of interactomics
Lecture 4 - Cell-free expression based protein microarrays
Lecture 5 - NAPPA
Lecture 6 - NAPPA Technology and Protein Arrays - I
Lecture 7 - NAPPA Technology and Protein Arrays - II
Lecture 8 - Biomarkers
Lecture 9 - Biomarkers
Lecture 10 - Biomarkers
Lecture 11 - NAPPA and its applications in study of antibody immune response in disease and in drug screening
Lecture 12 - NAPPA and its applications in study of antibody immune response in disease and in drug screening
Lecture 13 - NAPPA and its applications in study of antibody immune response in disease and in drug screening
Lecture 14 - Using functional proteomics to identify biomarkers and therapeutic targets - I
Lecture 15 - Using functional proteomics to identify biomarkers and therapeutic targets - II
Lecture 16 - Applications of protein microarrays in Malaria Research - I
Lecture 17 - Applications of protein microarrays in Malaria Research - II
Lecture 18 - Introduction to Bioprinting and IrisOptical QC Benefits - I
Lecture 19 - Introduction to Bioprinting and IrisOptical QC Benefits - II
Lecture 20 - Screening of autoantibody signatures in cancer patients
Lecture 21 - Basics of Image Scanning and data acquisition
Lecture 22 - Applications of protein arrays in identification of autoantibody signatures - I
Lecture 23 - Applications of protein arrays in identification of autoantibody signatures - II
Lecture 24 - Applications of protein microarrays in deciphering PTMs and biological networks
Lecture 25 - Basics and Applications of Reverse Phase Protein Arrays - I
Lecture 26 - Basics and Applications of Reverse Phase Protein Arrays - II
Lecture 27 - Basics and Applications of Reverse Phase Protein Arrays - III
Lecture 28 - An overview of label-free technologies
Lecture 29 - Surface Plasmon Resonance - Principles and Assays - I

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- Lecture 30 - Surface Plasmon Resonance - Principles and Assays - II
- Lecture 31 - Basics of SPR
- Lecture 32 - Basics of SPR
- Lecture 33 - Protein immobilization for protein-protein interaction studies
- Lecture 34 - Protein-protein interaction study
- Lecture 35 - Protein-protein interaction study
- Lecture 36 - Use of SPR in unravelling domain motif interactions of proteasomal assembly chaperones
- Lecture 37 - Protein-small molecule interaction study
- Lecture 38 - Protein-small molecule interaction study
- Lecture 39 - An introduction to biolayer interferometry (BLI) and its applications in protein research
- Lecture 40 - Biomolecular interactions using Bio-Layer Interferometry (BLI) - I
- Lecture 41 - Biomolecular interactions using Bio-Layer Interferometry (BLI) - II
- Lecture 42 - Lab session- An introduction to BioLayer Interferometry (BLI) and its applications in protein research
- Lecture 43 - Applications of label-free technologies - II
- Lecture 44 - Biomolecular interaction analytics using MicroScale Thermophoresis
- Lecture 45 - Mass Spectrometry coupled Interactomics - I
- Lecture 46 - Mass Spectrometry coupled Interactomics - II
- Lecture 47 - Next-Generation Sequencing Technology - Ion Torrent
- Lecture 48 - NGS Technology - Bioinformatics and data analysis - I
- Lecture 49 - NGS Technology - Bioinformatics and data analysis - II
- Lecture 50 - Next-Generation Sequencing Technology- Illumina
- Lecture 51 - Agilent complete NGS target enrichment workflow for exomes, targeted panels and beyond
- Lecture 52 - The Human Pathology Atlas
- Lecture 53 - The Human Pathology Atlas
- Lecture 54 - Statistical Analysis - I
- Lecture 55 - Statistical Analysis - II
- Lecture 56 - Secondary Data Analysis
- Lecture 57 - Pathway Enrichment and Network Analysis
- Lecture 58 - Data Repositories and Databases
- Lecture 59 - Application of multi-omics approach for better understanding of cancers
- Lecture 60 - Integrated Omics and Systems Biology- Conclusion