

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:NMR Spectroscopy for Structural Biology

Subject Co-ordinator - Prof. Ashutosh Kumar, Prof. R. V Hosur

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - NMR Basic Concepts - I
Lecture 2 - NMR Basic Concepts - II
Lecture 3 - NMR Basic Concepts - III
Lecture 4 - NMR Basic Concepts - IV
Lecture 5 - NMR Spectra of Molecules
Lecture 6 - Chemical Shifts and Coupling constant
Lecture 7 - Fine Structures in NMR Spectra
Lecture 8 - Pulse Excitation and FT-NMR
Lecture 9 - Practical Aspects of FT-NMR - 1
Lecture 10 - Practical Aspects of FT-NMR - 2
Lecture 11 - Practical Aspects of FT-NMR - 3
Lecture 12 - Practical Aspects of FT-NMR - 4
Lecture 13 - Polarization Transfer Technique - 1
Lecture 14 - Polarization Transfer Technique - 2
Lecture 15 - General Concept of Multidimensional NMR - 1
Lecture 16 - General Concept of Multidimensional NMR - 2
Lecture 17 - 2-D NMR or 2-D Co-relation spectroscopy : General concept - 1
Lecture 18 - 2-D NMR or 2-D Co-relation spectroscopy : General concept - 2
Lecture 19 - 2-D NMR or 2-D Co-relation spectroscopy : General concept - 3
Lecture 20 - Introduction to NOESY and HSQC - 1
Lecture 21 - Introduction to NOESY and HSQC - 2
Lecture 22 - Introduction to NOESY and HSQC - 3
Lecture 23 - Introduction to NOESY and HSQC - 4
Lecture 24 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 1
Lecture 25 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 2
Lecture 26 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 3
Lecture 27 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 4
Lecture 28 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 5
Lecture 29 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 6

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- Lecture 30 - Application of NMR in the area of structural Biology: Structure of DNA and RNA - 7
- Lecture 31 - Determination of Structure and Dynamics of Proteins - 1
- Lecture 32 - Determination of Structure and Dynamics of Proteins - 2
- Lecture 33 - Determination of Structure and Dynamics of Proteins - 3
- Lecture 34 - Determination of Structure and Dynamics of Proteins - 4
- Lecture 35 - Determination of Structure and Dynamics of Proteins - 5
- Lecture 36 - Determination of Structure and Dynamics of Proteins - 6
- Lecture 37 - NMR Analysis of Protein Dynamics - I
- Lecture 38 - NMR Analysis of Protein Dynamics - II
- Lecture 39 - NMR Analysis of Protein Dynamics - III
- Lecture 40 - NMR Analysis of Protein Dynamics - IV
- Lecture 41 - Protein-Ligand and Protein-Protein Interaction
- Lecture 42 - NMR Analysis of Ligand specific parameters in a Protein-Ligand Interaction - I
- Lecture 43 - NMR Analysis of Ligand specific parameters in a Protein-Ligand Interaction - II
- Lecture 44 - NMR Analysis of Protein Specific Parameters in a Protein-Ligand Interaction - I
- Lecture 45 - NMR Analysis of Protein Specific Parameters in a Protein-Ligand Interaction - II
- Lecture 46 - NMR in Drug Design
- Lecture 47 - NMR in Drug Discovery
- Lecture 48 - NMR in Drug metabolism - I
- Lecture 49 - NMR in Drug metabolism - II
- Lecture 50 - NMR in Drug metabolism - III
- Lecture 51 - Probing Protein Dynamics by NMR Spectroscopy - I
- Lecture 52 - Probing Protein Dynamics by NMR Spectroscopy - II
- Lecture 53 - Probing Protein Dynamics by NMR Spectroscopy - III
- Lecture 54 - Probing Protein Dynamics by NMR Spectroscopy - IV
- Lecture 55 - Probing Protein Dynamics by NMR Spectroscopy - V
- Lecture 56 - Basics of solid state NMR spectroscopy - I
- Lecture 57 - Basics of solid state NMR spectroscopy - II
- Lecture 58 - Basics of solid state NMR spectroscopy - III
- Lecture 59 - Basics of solid state NMR spectroscopy - IV
- Lecture 60 - Basics of solid state NMR spectroscopy - V