

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Medicinal Chemistry

Subject Co-ordinator - Prof. Harinath Chakrapani

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Medicinal Chemistry - Part I
Lecture 2 - Introduction to Medicinal Chemistry - Part II
Lecture 3 - Intermolecular Binding Forces
Lecture 4 - Protein Structure and Function
Lecture 5 - Tutorial 1 - Acidity, Basicity and Related concepts
Lecture 6 - Tutorial 2 - Basic Concepts of Thermodynamics and Kinetics
Lecture 7 - Enzyme Catalysis - Part I
Lecture 8 - Enzyme Catalysis - Part II
Lecture 9 - Tutorial 3 - Binding Forces, Protein Structure and Function
Lecture 10 - Introduction to Receptors
Lecture 11 - Receptor Types and Functions
Lecture 12 - Tutorial 4 - Receptors, Binding Interactions, Ion Channels
Lecture 13 - Nucleic Acids
Lecture 14 - RNA and Protein Synthesis
Lecture 15 - Tutorial 5 - Nucleic acids, and Basics of Molecular Biology
Lecture 16 - Enzymes as Drug Targets
Lecture 17 - Enzyme Kinetics and Inhibition
Lecture 18 - Tutorial 6 - Enzyme Kinetics, Various Modes of Inhibition etc.
Lecture 19 - Receptors as Drug Targets - Part I
Lecture 20 - Receptors as Drug Targets - Part II
Lecture 21 - Tutorial 7 - Receptor-Drug Interactions, Stereochemistry, Chirality, Nomenclature
Lecture 22 - Receptor-Drug Interactions.
Lecture 23 - Stereochemistry and Conformation
Lecture 24 - Tutorial 8 - Determination of Drug-Receptor Interactions, Conformation of Cyclic and Acyclic Str
Lecture 25 - Nucleic Acids as Drug Targets - Part I
Lecture 26 - Nucleic Acids as Drug Targets - Part II
Lecture 27 - Miscellaneous Drug Targets
Lecture 28 - Tutorial 9 - Nucleic Acids and Related Topics
Lecture 29 - Mechanisms in Biological Chemistry - Part I

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Lecture 30 - Mechanisms in Biological Chemistry - Part II
Lecture 31 - Mechanisms in Biological Chemistry - Part III
Lecture 32 - Pharmacokinetics - Part I
Lecture 33 - Pharmacokinetics - Part II
Lecture 34 - Drug Metabolism - Part I
Lecture 35 - Drug Metabolism - Part II
Lecture 36 - Drug Metabolism - Part III
Lecture 37 - Drug Metabolism - Part IV
Lecture 38 - Tutorial 10 - ADME
Lecture 39 - Drug Administration Routes - Part I
Lecture 40 - Drug Administration Routes - Part II
Lecture 41 - Finding a Lead - Part I
Lecture 42 - Finding a Lead - Part II
Lecture 43 - Drug Screening
Lecture 44 - Tutorial 11 - Drug administration routes and finding a lead
Lecture 45 - Optimizing Drug-Target Interactions - Part I
Lecture 46 - Optimizing Drug-Target Interactions - Part II
Lecture 47 - Optimizing Drug-Target Interactions - Part III
Lecture 48 - Optimizing Drug-Target Interactions - Part IV
Lecture 49 - Tutorial 12
Lecture 50 - Optimizing Access to the Target
Lecture 51 - Prodrugs
Lecture 52 - Prodrugs and Drug Alliances
Lecture 53 - Endogenous Compounds, Peptidomimetics and Oligonucleotides as Drugs
Lecture 54 - Tutorial 13- Optimizing Access-Prodrugs
Lecture 55 - Combinatorial and parallel synthesis
Lecture 56 - Computer in Medicinal Chemistry
Lecture 57 - Antibacterial agents - 1
Lecture 58 - Antibacterial agents - 2
Lecture 59 - Tutorial 14-Combinatorial and parallel synthesis, computers in med chem and anti-bacterial agents
Lecture 60 - Anti-viral agents - 1
Lecture 61 - Anti-viral agents - 2
Lecture 62 - Anti-cancer agents - 1
Lecture 63 - Anti-cancer agents - 2
Lecture 64 - Cholinergics
Lecture 65 - Anti-ulcer agents
Lecture 66 - QSAR - 1
Lecture 67 - QSAR - 2
Lecture 68 - QSAR - 3

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Lecture 69 - Drug Resistance and Synergy