

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

NPTEL Video Course - Biotechnology - NOC:Computer Aided Drug Design

Subject Co-ordinator - Prof. Mukesh Doble

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction
- Lecture 2 - Drug Discovery - Issues
- Lecture 3 - Target and Lead Identification
- Lecture 4 - Drug And Data bases
- Lecture 5 - Drug Properties
- Lecture 6 - Drug - Properties / SMILES
- Lecture 7 - Drug Solubility
- Lecture 8 - Drug Solubility / permeability
- Lecture 9 - ADME
- Lecture 10 - Drug - ADME
- Lecture 11 - Drug - ADME
- Lecture 12 - Drug - BBB
- Lecture 13 - Pgp efflux/Drug Likeness
- Lecture 14 - Drug Likeness
- Lecture 15 - Molecular Modelling
- Lecture 16 - Molecular Mechanics / Force Field
- Lecture 17 - Molecular Mechanics / Force Field
- Lecture 18 - Molecular Mechanics / Force Field
- Lecture 19 - Molecular Mechanics / Force Field
- Lecture 20 - ODES and Numerical methods
- Lecture 21 - ODES and Numerical methods
- Lecture 22 - Conformational Search / MD
- Lecture 23 - Quantum Mechanics
- Lecture 24 - Quantum Mechanics
- Lecture 25 - Quantitative Structure Activity Relationship (QSAR)
- Lecture 26 - Quantitative Structure Activity Relationship (QSAR)
- Lecture 27 - Quantitative Structure Activity Relationship (QSAR)
- Lecture 28 - Quantitative Structure Activity Relationship (QSAR)
- Lecture 29 - Quantitative Structure Activity Relationship (QSAR)

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- Lecture 30 - Quantitative Structure Activity Relationship (QSAR)
- Lecture 31 - 3D QSAR
- Lecture 32 - Pharmacophore modelling
- Lecture 33 - Target based drug design
- Lecture 34 - Target based drug design
- Lecture 35 - Target based drug design
- Lecture 36 - Target based drug design
- Lecture 37 - Docking
- Lecture 38 - Docking
- Lecture 39 - Pharmacokinetics / pharmacodynamics
- Lecture 40 - Pharmacokinetics / pharmacodynamics