

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Classics in Total Synthesis-I

Subject Co-ordinator - Prof. Krishna P Kaliappan

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Overview - 1
- Lecture 2 - Overview - 2
- Lecture 3 - Overview - 3
- Lecture 4 - Illudin M (Kinder) Illudin C (Funk)
- Lecture 5 - Total Synthesis of FR900848 (Barrett)
- Lecture 6 - Total Synthesis of Cubane
- Lecture 7 - Total Synthesis of Endiandric acids
- Lecture 8 - Total Synthesis of Penicilin
- Lecture 9 - Total Synthesis of Thienamycin
- Lecture 10 - Total Synthesis of Prostaglandin (Corey)
- Lecture 11 - Total Synthesis of Prostaglandin (Johnson and Stork)
- Lecture 12 - Total Synthesis of Biotin and Lactacystin (i) Corey, (ii) Baldwin
- Lecture 13 - Total Synthesis of Triquinanes: Isocomene 1) M. Pirrung 2) Fitjer
- Lecture 14 - Total Synthesis of Triquinanes: Isocomene and Silphiperfol-6-en-5-one (Rawal)
- Lecture 15 - Total synthesis of Triquinanes by radical cyclisation - I (Curran)
- Lecture 16 - Total synthesis of Triquinanes by radical cyclisation - II
- Lecture 17 - Total synthesis of Triquinanes by photochemical reaction - I
- Lecture 18 - Total synthesis of Triquinanes by photochemical reaction - II
- Lecture 19 - Total synthesis of Triquinanes by Thermal Metathesis (Mehta)
- Lecture 20 - Total synthesis of Triquinanes by other reactions
- Lecture 21 - Total synthesis of Longifolene (Corey and Oppolzer)
- Lecture 22 - Total synthesis of Carpanone (Chapman)
- Lecture 23 - Total synthesis of Mevinolin (Clive)
- Lecture 24 - Total synthesis of Gibberellic Acid (Corey)
- Lecture 25 - Total synthesis of Gibberellic Acid (Yamada)
- Lecture 26 - Total synthesis of Perhydrohistrionicotoxin (Corey)
- Lecture 27 - Total synthesis of Strychnine (Woodward)
- Lecture 28 - Total synthesis of Strychnine (Rawal and Overman)
- Lecture 29 - Total synthesis of Strychnine (Kuehne)

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- Lecture 30 - Total synthesis of Reserpine (Woodward)
- Lecture 31 - Total synthesis of Yohimbine (Tamelon and Momose)
- Lecture 32 - Total synthesis of Quinine (Woodward and Stork)
- Lecture 33 - Total synthesis of Dendrobine (Livinghouse)
- Lecture 34 - Total synthesis of Morphine (Gates and Overman)
- Lecture 35 - Total synthesis of Morphine (Parker and White)
- Lecture 36 - Total synthesis of Methyldhomosecodaphniphyllate (Heathcock)
- Lecture 37 - Total synthesis of Lysergic acid (Woodward and Oppolzer)
- Lecture 38 - Total synthesis of Galanthamine (Barton and Kirby)
- Lecture 39 - Total synthesis of Epibatidine (Trost and Evans)
- Lecture 40 - Total synthesis of Swainsonine (Hashimoto)
- Lecture 41 - Total synthesis of Staurosporine (Danishefsky and Wood)
- Lecture 42 - Total synthesis of Manzamine A (Winkler)
- Lecture 43 - Total synthesis of Progesterone (Johnson)
- Lecture 44 - Total synthesis of Progesterone from Diosgenin (Marker)
- Lecture 45 - Total synthesis of Estrone (Torgov)
- Lecture 46 - Total synthesis of Taxol (Nicolaou)
- Lecture 47 - Total synthesis of Taxol (Holton)
- Lecture 48 - Total synthesis of Taxol (Danishefsky)
- Lecture 49 - Total synthesis of Taxol (Wender)
- Lecture 50 - Total synthesis of Eleutherobin (Nicolaou)
- Lecture 51 - Total synthesis of Eleutherobin (Danishefsky)
- Lecture 52 - Total synthesis of Phorbol (Wender)
- Lecture 53 - Total synthesis of Periplanone (Still and Schreiber)
- Lecture 54 - Total synthesis of Discodermolide (Schreiber)
- Lecture 55 - Total synthesis of Epothilones I (Nicolaou)
- Lecture 56 - Total synthesis of Epothilones II (Schinzer and Danishefsky)
- Lecture 57 - Total synthesis of Vineomycinone B2 (Tius and Danishefsky)
- Lecture 58 - Total synthesis of Zaragozic acid C (Carreira)