

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

NPTEL Video Course - Biotechnology - NOC:I Think Biology

Subject Co-ordinator - Prof. Kaustubh Rau, Prof. Sravanti Uppaluri, Prof. Divya Uma, Prof. Jayanti Ray Mukherjee

Co-ordinating Institute - Azim Premji University

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

Lecture 1 - What is Biology ?

Lecture 2 - Pillars of Biology

Lecture 3 - Biology and the City

Lecture 4 - The Process of Science

Lecture 5 - A Tale of Forgotten Scientists - Part I

Lecture 6 - A Tale of Forgotten Scientists - Part II

Lecture 7 - Numbers and Scales in Biology - Part I

Lecture 8 - Numbers and Scales in Biology - Part II

Lecture 9 - Experimentation vs Theory_Discussion

Lecture 10 - How to Find Reliable Information ?

Lecture 11 - How to Read a Scientific Article ?

Lecture 12 - Biomolecules - Part I

Lecture 13 - Biomolecules - Part II

Lecture 14 - Central Dogma

Lecture 15 - Gene Regulation

Lecture 16 - Non-Coding RNA

Lecture 17 - Introduction to Cells

Lecture 18 - Our Favourite Cells - Part I

Lecture 19 - Our Favourite Cells - Part II

Lecture 20 - Cell Cycle

Lecture 21 - Cell Cycle Control

Lecture 22 - Cancer Biology (Guest Lectuer) - Dr. Ramray Bhat (IISc)

Lecture 23 - Discussion on Cancer Biology - Dr. Ramray Bhat (IISc) and Dr. Divya Uma (Azim Premji University)

Lecture 24 - Genetics - I

Lecture 25 - Genetics - II

Lecture 26 - Genetics - III

Lecture 27 - Gene Mutations and Genetic Disorders (Guest Lectuer) Dr. Antara Das, Azim Premji University

Lecture 28 - Studying Human Genetic Disorders using Transgenic Animals - Research talk (Guest Lectuer)

Lecture 29 - Bead Microscopy (Guest Lectuer) Dr. Procheta Mallik (ISPF and ThinkTac)

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- Lecture 30 - Molecular Biology Techniques
- Lecture 31 - Bacterial DNA Isolation and PCR - Hands-on (Guest Lectuer) Dr. Beena DB (Azim Premji University)
- Lecture 32 - BT Cotton - Part 1 (Case study)
- Lecture 33 - Molecular Biology Techniques - BT Cotton - Part 2 (Case study)
- Lecture 34 - Introduction to Evolution
- Lecture 35 - Evidences of Evolution
- Lecture 36 - Mechanism of Evolution
- Lecture 37 - Misconceptions about Evolution - Discussion
- Lecture 38 - Human Evolution
- Lecture 39 - Species, Speciation and Biodiversity - I
- Lecture 40 - Species, Speciation and Biodiversity - II
- Lecture 41 - Measuring Biodiversity (Tutorial)
- Lecture 42 - Speciation
- Lecture 43 - Speciation (Case studies)
- Lecture 44 - Introduction to Ecological Interactions - Part 1
- Lecture 45 - Ecological Interactions - Part 2
- Lecture 46 - Ecological Interactions - Part 3
- Lecture 47 - Mutualism - Figs (Case Study)
- Lecture 48 - Seed Dispersal (Case study)
- Lecture 49 - Introduction to Public Health (Guest Lectuer) Dr.Abha Rao (Public Health Foundation of India)
- Lecture 50 - Public Health in India (Guest Lectuer) Dr. Abha Rao (Public Health Foundation of India)
- Lecture 51 - Discussion on Public Health - Dr. Abha Rao (PHFI) and Mr. Pratush Brahma (University of Florida)
- Lecture 52 - Public Health - Rotavirus (Case study)
- Lecture 53 - Public Health - Malaria (Case study) - Part 1
- Lecture 54 - Public Health - Malaria (Case study) - Part 2
- Lecture 55 - Biology and Climate Change - Part 1
- Lecture 56 - Biology and Climate Change - Part 2
- Lecture 57 - Biology and Climate Change - Part 3
- Lecture 58 - Biodiversity Conservation (Guest Lectuer) Dr. Krishnapriya Tamma (Azim Premji University)
- Lecture 59 - Discussion on Biology and Society
- Lecture 60 - Discussion on Art and Science
- Lecture 61 - Biology and Society - Case study on Stray Dogs
- Lecture 62 - Nature Relatedness
- Lecture 63 - Course Wrap-Up