

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

NPTEL Video Course - Biotechnology - NOC:An Introduction to Evolutionary Biology

Subject Co-ordinator - Prof. Sutirth Dey

Co-ordinating Institute - IISER Pune

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

- Lecture 1 - Introduction to the Living World and two major questions
- Lecture 2 - History of Evolutionary Thought (Pre-Darwin)
- Lecture 3 - Making of Darwinism (External Video)
- Lecture 4 - Darwinism
- Lecture 5 - Beyond Darwinism: Modern Synthesis_EES
- Lecture 6 - Tying it all up_Back to the two questions
- Lecture 7 - Evidence for evolution 1: Change and Speciation
- Lecture 8 - Evidence for evolution 2: Descent with modification - Part 1
- Lecture 9 - Evidence for evolution 3: Descent with modification - Part 2
- Lecture 10 - Evidence for evolution 4: Objections to evolution
- Lecture 11 - Classifying variation
- Lecture 12 - Revising Mendel and introducing population genetics
- Lecture 13 - From family to the population
- Lecture 14 - Solving simple Hardy-Weinberg problems
- Lecture 15 - Generating variation
- Lecture 16 - Features of Mutations - Part 1
- Lecture 17 - Features of Mutations - Part 2
- Lecture 18 - Non-genetic Inheritance
- Lecture 19 - Introduction to Selection
- Lecture 20 - Dynamics of Selection 1: Numerical Simulations
- Lecture 21 - Dynamics of Selection 2: Analytical
- Lecture 22 - Features of selection: Insights from theory
- Lecture 23 - Examples of selection
- Lecture 24 - Features of selection: Insights from experiments
- Lecture 25 - Finite population: Numerical Simulations
- Lecture 26 - Genetic drift: examples and features
- Lecture 27 - Effective population size and evolution of mutation rates
- Lecture 28 - Non-random mating and inbreeding
- Lecture 29 - Migration: Numerical simulations and analysis

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- Lecture 30 - Migration: Interactions and examples
- Lecture 31 - Introduction to Aging
- Lecture 32 - Mechanistic Theories of Aging
- Lecture 33 - Evolutionary Theories of Aging - Part 1
- Lecture 34 - Evolutionary Theories of Aging - Part 2
- Lecture 35 - Why sex?
- Lecture 36 - Benefits of sex
- Lecture 37 - Sexual Selection - Part 1
- Lecture 38 - Sexual Selection - Part 2
- Lecture 39 - Kin Selection and Hamilton's Rule
- Lecture 40 - Evolutionary Conflicts
- Lecture 41 - What is a species?
- Lecture 42 - What are the isolation mechanisms?
- Lecture 43 - Evolution of reproductive isolation
- Lecture 44 - How new genes are born
- Lecture 45 - Coping with changing environments
- Lecture 46 - Evolutionary patterns in the genome
- Lecture 47 - Origin of Life - Part 1
- Lecture 48 - Origin of Life - Part 2
- Lecture 49 - Human Evolution
- Lecture 50 - Applications of Evolution - Part 1
- Lecture 51 - Applications of Evolution - Part 2