

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

NPTEL Video Course - Chemistry and Biochemistry - Eukaryotic Gene Expression - basics and benefits

Subject Co-ordinator - Prof. P.N. Rangarajan

Co-ordinating Institute - IISc - Bangalore

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

- Lecture 1 - Eukaryotic RNA polymerases and basal transcription factors
- Lecture 2 - Diversity in core promoter elements
- Lecture 3 - Diversity in general transcription factors
- Lecture 4 - Proximal & Distal Promoter Elements, Enhancers and Silencers, Gene-specific Regulators
- Lecture 5 - Transcription factors - DNA binding domains
- Lecture 6 - Transcription factors - Transcription activation domain
- Lecture 7 - Role of chromatin in eukaryotic gene regulation
- Lecture 8 - Role of histones in eukaryotic gene regulation
- Lecture 9 - Role of DNA methylation in eukaryotic gene regulation
- Lecture 10 - Chromatin remodelling & gene regulation
- Lecture 11 - mRNA processing - Role of RNA Pol II in mRNA capping and mRNA splicing
- Lecture 12 - mRNA processing - Role of RNA Pol II in polyadenylation & mRNA editing
- Lecture 13 - Regulation of RNA Pol I transcription
- Lecture 14 - Regulation of RNA Pol III transcription
- Lecture 15 - Signal Transduction Pathways - Introduction
- Lecture 16 - Regulation of gene expression by cyclicAMP
- Lecture 17 - Regulation of gene expression by second messengers other than cAMP
- Lecture 18 - Regulation of gene expression by Protein Kinase C
- Lecture 19 - Regulation of gene expression by Growth factors
- Lecture 20 - Regulation of gene expression by cytokines
- Lecture 21 - Regulation of gene expression by steroid hormones
- Lecture 22 - Regulation of gene expression by type II nuclear receptors
- Lecture 23 - Mechanism of transcriptional activation by nuclear receptors
- Lecture 24 - Gene Regulation during Drosophila Development
- Lecture 25 - Signal transduction pathways involved in embryonic development
- Lecture 26 - Homeotic genes
- Lecture 27 - Epigenetic regulation of gene expression during development
- Lecture 28 - Embryonic stem cells and Transcription factor-mediated epigenetic reprogramming
- Lecture 29 - Cloning and Expression vectors

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Eukaryotic protein expression systems - I
- Lecture 31 - Eukaryotic protein expression systems - II
- Lecture 32 - Eukaryotic protein expression systems - III
- Lecture 33 - Human Gene Therapy
- Lecture 34 - DNA vaccines
- Lecture 35 - Transgenic animals
- Lecture 36 - Transgenic plants
- Lecture 37 - Knockout mic
- Lecture 38 - Regulation of Eukaryotic Gene Expression by Small RNAs (RNA Interference, RNAi)
- Lecture 39 - Genomics & Proteomics
- Lecture 40 - Metabolic Engineering & Synthetic Biology