

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

NPTEL Video Course - Biotechnology - NOC:Animal Physiology

Subject Co-ordinator - Prof. Mainak Das

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - An Introduction to Anatomy and Physiology
- Lecture 2 - Organization of living system
- Lecture 3 - Homeostasis and system integration
- Lecture 4 - Positive feedback loop in homeostasis
- Lecture 5 - Chemical basis of organization of the body
- Lecture 6 - Integumentary System - I
- Lecture 7 - Integumentary system - II
- Lecture 8 - Integumentary System - III
- Lecture 9 - Bone and Cartilage - I
- Lecture 10 - Bone and Cartilage - II
- Lecture 11 - Introduction of muscle
- Lecture 12 - Skeletal muscle formation
- Lecture 13 - Anatomy of skeletal muscle
- Lecture 14 - Contraction in muscle
- Lecture 15 - Function of actin and myosin
- Lecture 16 - Length tension relationship of skeletal muscle
- Lecture 17 - Excitation contraction coupling with nervous system
- Lecture 18 - Stretch reflex phenomena
- Lecture 19 - Nervous system anatomy and signaling
- Lecture 20 - Structure and circuit of neurons
- Lecture 21 - Origin of biological cell
- Lecture 22 - Excitability in cell
- Lecture 23 - Ion transportation in the cell
- Lecture 24 - Signal propagation in neurons
- Lecture 25 - Neurotransmitter and action potential
- Lecture 26 - Spatial temporal summation of signal in mesh neurons
- Lecture 27 - Anatomy of Hippo-campus
- Lecture 28 - Epilepsy and memory
- Lecture 29 - Long term potentiation

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- Lecture 30 - Long term depression
- Lecture 31 - Alzheimers disease
- Lecture 32 - Parkinsons disease
- Lecture 33 - Amyotrophic lateral sclerosis
- Lecture 34 - Spinal cord injury
- Lecture 35 - Glial cells
- Lecture 36 - Stretch reflex arc circuit - I
- Lecture 37 - Stretch reflex arc circuit - II
- Lecture 38 - Neuro muscular junction
- Lecture 39 - Hearing system
- Lecture 40 - Olfaction system
- Lecture 41 - Anatomy of eye
- Lecture 42 - Eye lens and cataract
- Lecture 43 - Structure of Retina
- Lecture 44 - Image formation and processing in eyes
- Lecture 45 - Mechanism of photo processing by rods
- Lecture 46 - Structure and Function of Heart - I
- Lecture 47 - Structure and Function of Heart - II
- Lecture 48 - Conduction circuit of heart
- Lecture 49 - Contractile system and Conducting system
- Lecture 50 - EKG and Comparison of action potential between pace make cell and work cell
- Lecture 51 - Respiratory Physiology
- Lecture 52 - Anatomy and physiology of Blood vessels - I
- Lecture 53 - Anatomy and Physiology of Blood vessels - II
- Lecture 54 - Anatomy and physiology of blood vessels - III
- Lecture 55 - Anatomy and physiology of blood vessels - IV
- Lecture 56 - Endocrine system - I
- Lecture 57 - Digestive system and Endocrine system - II
- Lecture 58 - Blood
- Lecture 59 - Kidney and immune system
- Lecture 60 - Reproductive system