Mindluster Platform

About the course Bioinformatics

Course Presenter : Bio science

Bioinformatics, in this course Start the Bioinformatics Course and explore the exciting intersection of biology, computer science, and data analysis. In this course, we will learn the fundamentals of bioinformatics, including how biological data such as DNA, RNA, and protein sequences are collected, stored, analyzed, and interpreted using computational tools. You'll gain insights into sequence alignment, genome annotation, protein structure prediction, phylogenetic analysis, and the use of major bioinformatics databases like GenBank and UniProt. We'll also introduce key software and algorithms used in biological research, such as BLAST and Clustal Omega. Whether you're a student, researcher, or professional in the life sciences or data science fields, this course will provide the essential knowledge and practical skills to work with biological data and understand the molecular mechanisms of life. Letâ€™s begin our journey into the digital language of biologyâ€”bioinformatics. Bio science

Medical Category's Courses

Course Lesson(74)

Lesson 1 : **POINT MUTATION BY PHANINDRA GUPTHA**

Lesson 2 : **REVERSE MUTATION BY PHANINDRA GUPTHA**

Lesson 3 : **PHENOCOPY AND MICROENEPHALY BY PHANINDRA GUPTHA**

Lesson 4 : **PATHOGENECITY AND ITS MECHANISM BY PHANINDRA GUPTHA NEET**

Lesson 5 : **CRISS CROSS INHERITENCE IN DROSOPHILLA BY PHANINDRA GUPTHA**

Lesson 6 : **LAC OPERON BY PHANINDRA**

Lesson 7 : **PLEIOTROPY BY PHANINDRA**

Lesson 8 : **EPISTASIS part 1 DOMINANT EPISTASIS 1 DOMINANT EPISTASIS 2 BY PHANINDRA**

Lesson 9 :
EPISTASIS part 2 DUPLICATE RECESSIVE EPISTASIS POLYMERIC GENE INTERACTION BY PHANINDRA

Lesson 10 : **SEX DETERMINATION BY PHANINDRA**

Lesson 11 : **LYTIC CYCLE BY PHANINDRA GUPTHA**

Lesson 12 : **STRUCTURE OF VIRUS BY PHANINDRA GUPTHA**

Lesson 13 : **STRUCTURE OF BACTERIA BY PHANINDRA GUPTHA**

Lesson 14 : **STRUCTURE OF T EVEN BACTERIOPHAGE BY PHANINDRA GUPTHA**

Lesson 15 : **BASICS OF GENETICS BY PHANINDRA GUPTHA**

Lesson 16 : **INCOMPLETE DOMINANCE BY PHANINDRA GUPTHA**

Lesson 17 : **CO DOMINANCE BY PHANINDRA GUPTHA**

Lesson 18 : **LAW OF DOMINANCE BY USING MONOHYBRID CROSS BY PHANINDRA GUPTHA**

Lesson 19 : **DIHYBRID CROSS BY PHANINDRA GUPTHA**

Lesson 20 : **MONOHYBRID CROSS BY PHANINDRA GUPTHA**

Lesson 21 : **COT CURVE ANALYSIS PROCEDURE BY PHANINDRA GUPTHA**

Lesson 22 : **DENATURATION AND RENATURATION BY PHANINDRA GUPTHA**

Lesson 23 : **MESELSON STAHL EXPERIMENT dna recombination BY PHANINDRA GUPTHA**

Lesson 24 : **DNA REPLICATION part 2 BY PHANINDRA GUPTA**

Lesson 25 : **DNA REPLICATION part 1 BY PHANINDRA GUPTA**

Lesson 26 : **ANTIGENS IMMUNOGLOBULINS INTER 2nd YEAR BY PHANINDRA GUPTHA**

Lesson 27 :
ANTIBODIES IMMUNOGLOBULINS IMMUNE SYSTEM INTER SECOND YEAR BY PHANINDRA GUPTHA

Lesson 28 : **GENETIC INHERITENCE IN HEAMOPHILIA BY PHANINDRA**

Lesson 29 : **POLYGENIC INHERITENCE BY PHANINDRA**

Lesson 30 : **TEST CROSS BY PHANINDRA**

Lesson 31 : **CHROMOSOMAL DISORDERS BY PHANINDRA**

Lesson 32 : **CONJUGATION IN E coli BACTERIA BY PHANINDRA GUPTHA**

Lesson 33 : **EUKARYOTES AND PROKARYOTES CELL BIOLOGY BY PHANINDRA GUPTHA**

Lesson 34 :
WHICH TOPIC ARE YOU FEELING DIFFICULT REGARDING BIOLOGY BY PHANINDRA GUPTHA

Lesson 35 : **ROLLING CIRCULAR REPLICATION DNA REPLICATION BY PHANINDRA GUPTA**

Lesson 36 : **D LOOP REPLICATION DNA REPLICATION BY PHANINDRA GUPTA**

Lesson 37 : **MICROSATELLITES AND MINISATELLITES BIOTECHNOLOGY BY PHANINDRA GUPTA**

Lesson 38 : **DIFFERENCES BETWEEN DNA AND RNA BY PHANINDRA GUPTA**

Lesson 39 : **What is Chargaff s rule BY PHANINDRA GUPTHA**

Lesson 40 : **Chromosome structure and it s types By Phanindra guptha**

Lesson 41 : **Polytene chromosomes in drosophila Giant chromosomes By Phanindra guptha**

Lesson 42 : **Lampbrush chromosomes Giant chromosomes By Phanindra guptha**

Lesson 43 : **Buffers Types of buffers Buffer action Importance of buffers By Phanindra guptha**

Lesson 44 : **Down s syndrome Causes Symptoms Genetic disorder Bio science**

Lesson 45 : **Klinefelter syndrome Causes Symptoms Bio science**

Lesson 46 :
Gram staining procedure Gram positive bacteria and Gram negative bacteria Bio science

Lesson 47 : **Sanger DNA sequencing Made easy to understand Bio science**

Lesson 48 : **Fluorescence insitu hybridization FISH Made easy Physical mapping Bio science**

Lesson 49 :
Restriction mapping Made easy to understand Physical mapping Gene mapping Bio science

Lesson 50 : **Gene mapping Linkage mapping and Physical mapping Part 1 Bio science**

Lesson 51 : **Bt cotton production Bacillus thuringiensis Action of Bt toxin Advantages Cry gene**

Lesson 52 : **DNA Ligase enzyme and it s mechanism DNA ligation Bio science**

Lesson 53 : **Restriction endonuclease enzyme Mechanism Briefly explained Bio science**

Lesson 54 : **Polymerase chain reaction PCR Denaturation Annealing Extension Bio science**

Lesson 55 : **Cystic fibrosis CFTR gene mutation Molecular mechanism Bio science**

Lesson 56 : **Western blotting technique Detection of proteins Principle Procedure Bio science**

Lesson 57 : **ELISA test Principle Types of ELISA test By Phanindra gupta Bio science**

Lesson 58 : **Transcription in prokaryotes Initiation Elongation Termination Bio science**

Lesson 59 : **Structure of prokaryotic gene Struture of RNA polymerase Bio science**

Lesson 60 : **The nucleic acids DNA RNA Molecular basis of inheritance**

Lesson 61 : **Nucleus structure and function Structure and function NEET Bio science**

Lesson 62 :
Cell membrane structure and function Fluid mosaic model Transportation of proteins Bio science

Lesson 63 : **Endoplasmic reticulum Rough and smooth endoplasmic reticulum**

Lesson 64 : **Mitochondria**

Lesson 65 : **Cultivation of bacteria and culture media Nutrient media Bio science**

Lesson 66 : **Cultivation of bacteria and culture media Nutrient media Bio science**

Lesson 67 :
Bacterial cell culture methods Streak plate spread plate and pour plate methods Bio science

Lesson 68 :
Bacterial cell culture methods Streak plate spread plate and pour plate methods Bio science

Lesson 69 : **Repeated sub culturing Cryopreservation Preservation of microorganisms Bio science**

Lesson 70 : **Lyophilization Freeze drying Preservation of bacterial culture Bio science**

Lesson 71 : **Capillary pipette method Single cell isolation method Bio science**

Lesson 72 : **DNA fingerprinting Step by step procedure Example Bio science**

Lesson 73 : **Black fungus Mucormycosis Symptoms Black fungus vs Covid 19 Bio science**

Lesson 74 :
HAT medium for hybridoma selection and its functions in Hybridoma technology Bio science

Related courses

Infection Control

Male Reproductive

Anatomy

Pharynx

Endocrine

General Embryology



for Business Contact
business@mindluster.com