Mindluster Platform

About the course Bioinformatics databases

Course Presenter : Shomu s Biology

Bioinformatics databases, in this course we will learn about the most essential databases used in bioinformatics for storing, retrieving, and analyzing biological data. These databases include nucleotide databases like GenBank and EMBL, protein databases such as UniProt and PDB, and specialized resources like Ensembl, KEGG, and DDBJ. The course will guide you on how to navigate these databases, search for genetic and protein sequences, interpret biological annotations, and understand the relationships between data entries. You will also explore how these databases are structured, updated, and integrated into bioinformatics tools and pipelines. Whether you're a beginner or looking to strengthen your research skills, this course will equip you with the knowledge needed to efficiently access and utilize biological databases for scientific analysis, research, and discovery in genomics, proteomics, and systems biology. Shomu s Biology

Medical Category's Courses

Course Lesson(22)

Lesson 1 : **Molecular file format in bioinformatics Bioinformatics lecture**

Lesson 2 : **List of bioinformatics tools Bioinformatics course**

Lesson 3 : **FASTA algorithm in bioinformatics Bioinformatics course**

Lesson 4 : **Biological databases in bioinformatics**

Lesson 5 : **Bioinformatics NCBI database Bioinformatics course Shomu s Biology**

Lesson 6 : **Bioinformatics EBI database European Bioinformatics Institute**

Lesson 7 : **Bioinformatics databases Bioinformatics lecture 1**

Lesson 8 : **Bioinformatics blast tutorial Bioinformatics course lecture**

Lesson 9 :
File format in bioinformatics FASTA format and EMBL format Genbank format Tutorial 15

Lesson 10 : **Molecular file format in bioinformatics Bioinformatics tutorial 16**

Lesson 11 : **FASTA algorithm in bioinformatics Bioinformatics tutorial 13**

Lesson 12 : **Bioinformatics blast tutorial ncbi blast Bioinformatics tutorial 12**

Lesson 13 : **Needleman wunsch algorithm How to perform Global sequence alignment Tutorial 11**

Lesson 14 : **Global alignment vs local alignment Sequence alignment tutorial Lecture 10**

Lesson 15 :
Sequence alignment basics global alignment and local alignment Bioinformatics tutorial 9

Lesson 16 :
Sequence database vs structural database Difference between sequence and structural database

Lesson 17 : **Bioinformatics databases types structural databases Bioinformatics tutorial 6**

Lesson 18 : **Protein data bank PDB tutorial protein database Bioinformatics tutorial 7**

Lesson 19 :
Nucleotide sequence database bioinformatics nucleotide database ncbi Bioinformatics tutorial 5

Lesson 20 : **Bioinformatics database ebi Bioinformatics tutorial 2**

Lesson 21 : **Bioinformatics databases Bioinformatics tutorial 1**

Lesson 22 : **NCBI nucleotide database biological databases in bioinformatics lecture 3**

Related courses

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