



Course Contents

Prepared by : Bioinfo Cloud Team





Get in touch!

) +91- 9993239523, +91-9752221132) bioinfocloud01@gmail.com



Key Activities

01

0

03

Workshops on different bioinformatics course in online and offline mode

Hands on training program

Customized Data Analysis

Research Consultant



Why to choose Bioinfo Cloud?

Cost Effectiveness

On Job Practical Training

Quality Learning Certified Institution

Experienced Teachers Theoretical + Hands on

Get in touch!



+91- 9993239523, +91-9752221132 bioinfocloud01@gmail.com





Molecular breeding analytics

This course provides a comprehensive understanding of molecular breeding techniques and data analysis, equipping you with the knowledge and tools needed to enhance breeding programs through genetic insights.

Molecular Breeding Analytics Course Overview:

- Basic Concept of Molecular Marker and QTL Mapping: A brief overview of QTL mapping, linkage disequilibrium (LD) analysis, and linkage analysis, Understand the process of QTL mapping to locate regions of the genome linked to quantitative traits.
- Various Molecular Diversity Analysis: Explore techniques to assess genetic variation within and between populations using molecular markers. This includes cluster analysis, principal component analysis (PCA), and structure analysis.

Get in touch!



+91- 9993239523, +91-9752221132 bioinfocloud01@gmail.com



Molecular breeding analytics

- Molecular Marker Data Handling: Master the skills for collecting, storing, and preprocessing molecular marker data. Learn quality control measures like checking for missing data, minor allele frequency, and Hardy-Weinberg equilibrium.
- SNP Data Analysis: Gain proficiency in identifying and analyzing Single Nucleotide Polymorphisms (SNPs), including SNP calling, filtering, and annotation.
- Genome-Wide Association Studies
 (GWAS) with TASSEL and GAPIT in R:
 Conduct GWAS to associate genetic
 variations with traits using TASSEL software
 and the GAPIT R package. Learn to scan
 genomes for SNPs and relate them to
 phenotypic traits.
- Haplotype Analysis: Understand haplotypes and their analysis to study genetic structure and evolutionary history.

Get in touch!

+91- 9993239523, +91-9752221132 bioinfocloud01@gmail.com



Molecular breeding analytics

- Basics of R and Data Analysis: Develop foundational skills in R programming, focusing on data manipulation, statistical analysis, and visualization.
- Data Representation and Interpretation: Learn to present data clearly using tables, graphs, and charts. Develop skills to interpret results effectively for meaningful conclusions and decisions.







Batches Begins Soon!!



Admissions Open

+91- 9993239523, +91-9752221132
bioinfocloud01@gmail.com



