

SUMMER TRAINING PROGRAM IN BIOINFORMATICS 2023

May 1- May 30

TOPICS COVERED IN THIS PROGRAM

R & PYTHON PROGRAMMING

- ◆ R operators
- ◆ R objects
- ◆ Making plots in R
- ◆ Introduction to strings, numbers, list etc.
- ◆ Basic loops in python
- ◆ Basic python functions
- ◆ List comprehensions

SEQUENCE ANALYSIS & PHYLOGENETICS

- ◆ Introduction to biological database
- ◆ Homolog identification using BLAST
- ◆ Multiple sequence alignment using clustal Ω & MAFFT etc.
- ◆ Quality assessment of MSA
- ◆ Phylogenetic tree reconstruction

NGS DATA ANALYSIS

- ◆ Introduction to NGS
- ◆ NGS data analysis
- ◆ Metagenomics & Microbiome analysis
- ◆ RNA sequence analysis
- ◆ RNA-seq workflow
- ◆ Genome assembly

STRUCTURAL BIOINFORMATICS

- ◆ Protein structure visualization
- ◆ Molecular modelling
- ◆ Molecular docking
- ◆ Bio 3D package
- ◆ Analyzing protein-ligand -interaction

Trainers :

Dr. Jamshaid Ali
Deputy General Manager

Dr. Shijulal Nelson Sathi
Co-ordinator, Scientist C

Dr. K C Sivakumar
Senior Manager

Dr. Kathiresan Natarajan
Scientist C

Who can apply: B.Tech. / B.Sc. / M.Tech. / M.Sc / Pursuing. in Biological Science, Computer science, Pharmacy, Agriculture, Biotechnology, Molecular biology, Medicine, clinical research and other relevant Qualification in the life sciences areas are eligible.

AVAILABLE SLOTS - 10

Apply Here >>

THE PROGRAM WILL BE CONDUCTED IN OFFLINE MODE
FEE ₹ 15000/-

Contact:

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