RGCB
DISCOVERIES FOR A BETTER TOMORROW

SUMMER TRAINING PROGRAM IN BIOINFORMATICS 2023
May 1- May 30

TOPICS COVERED IN THIS PROGRAM

R & PYTHON PROGRAMMING
Trainer :Dr.Jamshaid Ali

- ♦ 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
Trainer:Dr.Shijulal Nelson Sathi

- ♦ 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
Trainer:Dr.Sivakumar KC

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

STRUCTURAL BIOINFORMATICS
Trainer:Dr.Kathiresan Natarajan

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

AVAILABLE SLOTS - 10

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

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