



2nd International RMBPD Colloquium Deciphering Bioregulatory Mechanism in Health and Disease using 'Omics' Approach

Sponsored by UGC-Special Assistance Program

February 24-25, 2022

Commemorating 100 years of University of Delhi



Pre-conference workshop on Genomics Data analysis

Maximum Intake:
40 students

(23rd February 2022)

In Collaboration with ICMR AIIMS Computational Genomics Centre

Registration fees:
INR 500

Lectures:

- Introduction to Genomic Databases, Different Sequencing technologies and terminologies
- NGS Data Analysis - different file formats, tools, and methods
- Introduction to Galaxy, how to perform NGS data analysis on Galaxy server.
- How to access ICMR-AIIMS Genome Centre

Hands on Training:

- Galaxy Account Management, Retrieving Raw data.
- Quality Assessment (fastqc, compute quality statistics, draw quality score boxplot, draw nucleotides distribution)
- Processing of Reads (Trim sequences)
- Alignment to Reference/Read Mapping (bowtie2, tophat)
- Results (sam/bam, BEDTools, SAM Tools)
- Downstream analysis
- Visualization

Registration link: <https://forms.gle/tvAYeSJdM12sqLDp9>

- Prerequisites: Basic understanding of molecular biology. Personal laptops required.
- Who can take this workshop: Bachelors and Masters students, PhD Scholars, and Researchers from life sciences
- Each candidate will be awarded with a certificate after successful completion of workshop.
- Lunch and Tea will be provided during the workshop

