



CENTRE OF
BIOINFORMATICS
RESEARCH &
TECHNOLOGY

USING
COMMAND-LINE
& INDUSTRY-
STANDARD
LINUX TOOLS

FROM READS TO VARIANTS A HANDS-ON TRAINING ON WHOLE GENOME SEQUENCING DATA ANALYSIS

About the Training

- ✓ This hands-on training program provides a comprehensive approach to Whole Genome Sequencing (WGS) data analysis, covering the complete pipeline from raw sequencing reads to variant identification and functional interpretation.
- ✓ Participants will learn essential bioinformatics techniques, including quality control, read alignment, variant calling (SNVs, Indels, SVs, and CNVs), and annotation using industry-standard tools.

Key Topics Covered

- ✓ Linux basics & NGS file formats (FASTQ, BAM, VCF)
- ✓ Quality control, preprocessing, and alignment (FastQC, BWA, Bowtie2)
- ✓ Variant calling for SNVs, Indels, Structural Variants (SVs), and CNVs (GATK, FreeBayes, Manta, CNVkit)
- ✓ Functional annotation & interpretation (VEP, ANNOVAR)



Duration & Timing



- Date: 29 Oct. to 11 Nov. 2025 (2 Weeks)
- 7.00 PM - 8:00 PM (IST)
- Monday to Friday
- Registration Closes: 28 Oct. 2025

Who Should Attend?



Ideal for students, researchers, and professionals in bioinformatics, genomics, and computational biology.

Eligibility



Students pursuing B.Sc., B.Tech., M.Sc., M.Tech., PhD in life sciences/computer science as well as Teaching and Industry Professionals.

Benefits



- Certificates
- Access to Live Sessions
- Recordings
- Workshop Materials
- Online Technical Support Post Workshop

More details



Visit: www.cbirt.net/training

Course Instructors



Dr. Shikha Mittal,
Bioinformatics Trainer, CBIRT
Dr. Tamanna Anwar, Training
Organizer & CoFounder,
CBIRT

Contact Us



+91 6398142849

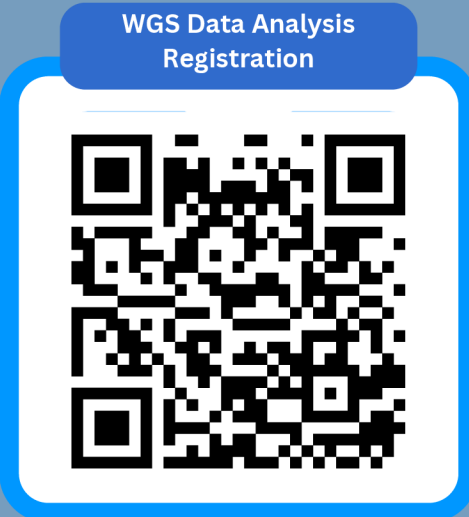


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A HANDS-ON TRAINING
ON WHOLE GENOME
SEQUENCING DATA
ANALYSIS

Training Registration

To register for the workshop, please submit the registration form along with your payment details. We accept multiple payment methods to ensure a convenient and secure registration process.



Registration Process



STUDENTS
UPTO MASTERS PH.D
INR-2250 INR-2500



POSTDOC/RESEARCH SCHOLARS

INR-2750



STAFF/FACULTY

INR-3000



INDUSTRY PROFESSIONALS

INR-3500



INTERNATIONAL PARTICIPANTS
(Including all Living, Working, or Studying Abroad at the time of the Workshop).

STUDENTS	POSTDOC/ RESEARCH SCHOLARS	STAFF/FACULTY	INDUSTRY PROFESSIONALS
UPTO MASTERS PH.D			
USD 40 USD 45	USD 50	USD 60	USD 65

Payment Methods

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