

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

Online

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: 8 - 21 Sept. 2026 (2 Weeks)**
- **7.15 PM - 8:15 PM (IST)**
- **Monday to Friday**
- **Registration Closes: 7 Sept. 2026**

Who Should Attend?



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

Eligibility



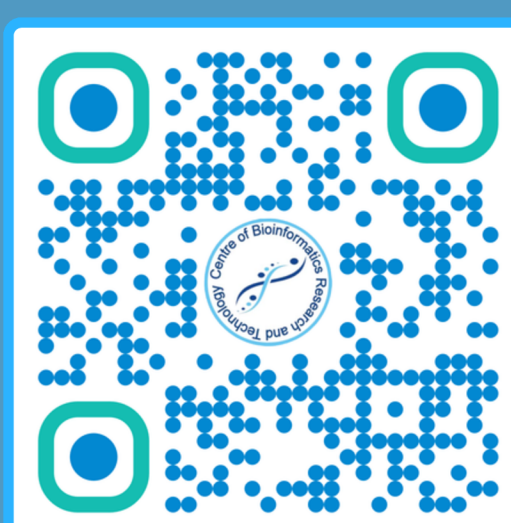
Students pursuing B.Sc., B.Tech., M.Sc., M.Tech., PhD in life sciences/computer science as well as Teaching and Industry Professionals.

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

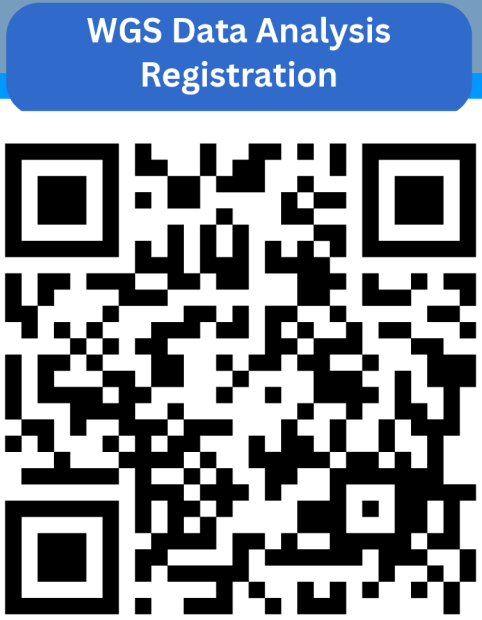


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ON WHOLE GENOME
SEQUENCING DATA
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Training Registration

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



Training
Package

WGS Data Analysis + GWAS Data Analysis (1 Month)	NATIONAL	Masters Students INR-3500	Ph.D INR-4000	Postdoc/Research Scholars INR-4500	STAFF/Faculty INR-5000	Industry Professionals INR-6000
	INTERNATIONAL	Masters Students USD 70	Ph.D USD 80	Postdoc/Research Scholars USD 90	STAFF/Faculty USD 100	Industry Professionals USD 110

