

# 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: 26 Dec. 2025 to 09 Jan. 2026 (2 Weeks)
- 7.15 PM - 8:15 PM (IST)
- Monday to Friday
- Registration Closes: 25 Dec. 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](http://www.cbirt.net/training)

## Course Instructors



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



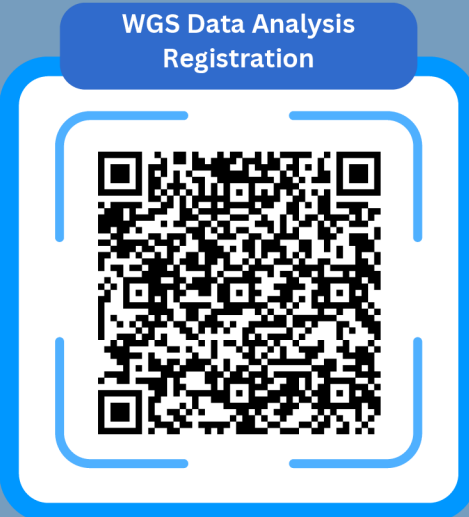


FROM READS TO VARIANTS

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-2000        INR-2250



POSTDOC/RESEARCH SCHOLARS

INR-2500



STAFF/FACULTY

INR-3000



INDUSTRY PROFESSIONALS

INR-3500



INTERNATIONAL PARTICIPANTS

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

STUDENTS

UPTO MASTERS    PH.D

USD 40             USD 45

POSTDOC/  
RESEARCH SCHOLARS

USD 50

STAFF/FACULTY

USD 60

INDUSTRY  
PROFESSIONALS

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

Payment Methods

SCAN QR CODE



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Payable to: Centre of Bioinformatics  
Research and Technology