CENTRE OF BIOINFORMATICS RESEARCH & TECHNOLOGY

EARLY BIRD DISCOUNT OPEN TILL 7TH JULY

USING COMMAND-LINE & LINUX TOOLS

FROM READS TO VARIANTS

A HANDS-ON TRAINING ON WHOLE GENOME SEQUENCING DATA ANALYSIS

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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: 14 Jul. to 25 Jul. 2025 (2 Weeks)
- 7.00 PM - 8:00 PM (IST)
- Monday to Friday
- Registration Closes: 13 Jul. 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

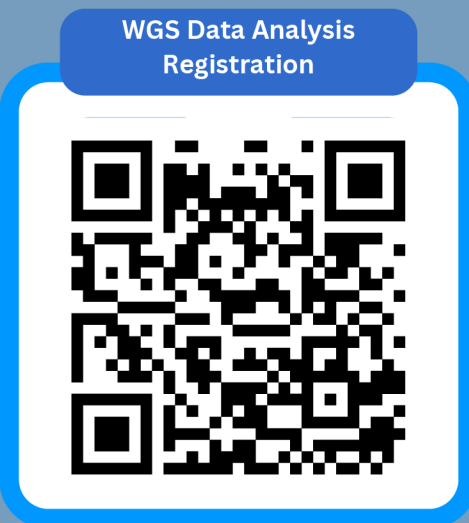**CENTRE OF BIOINFORMATICS RESEARCH & TECHNOLOGY**

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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.

WGS Data Analysis Registration

Registration Process

STUDENTS (UPTO PHD LEVEL)
INR-2499

POSTDOC/RESEARCH SCHOLARS
INR-2999

STAFF/FACULTY
INR-3499

INDUSTRY PROFESSIONALS
INR-3999

INTERNATIONAL PARTICIPANTS

STUDENTS (UPTO PHD LEVEL)	POSTDOC/ RESEARCH SCHOLARS	STAFF/FACULTY	INDUSTRY PROFESSIONALS
USD 40	USD 45	USD 50	USD 55

Early Bird Registration (Closes 7th July, 2025)	Students (Upto PhD Level)	Postdoc/Research Scholars	STAFF/Faculty	Industry Professionals
Indian Participants	INR-2249.00	INR-2699.00	INR-3149.00	INR-3599
International Participants	USD 36	USD 42	USD 45	USD 50

Payment Methods

SCAN QR CODE

centreofbioinformaticsresearch@cnrb

UPI ID

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ONLINE TRANSFER

Account No. - 120023770387
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