



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, KEGG, Reactome)



Duration & Timing



Date: 03 Apr. to 23 Apr. 2025
7.00 PM - 8:00 PM (IST)
Monday to Friday
Registration Closes: 01 Apr. 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



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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

	<p>STUDENTS (UPTO PHD LEVEL) INR-2999</p>		<p>POSTDOC/RESEARCH SCHOLARS INR-3499</p>	
	<p>STAFF/FACULTY INR-3999</p>		<p>INDUSTRY PROFESSIONALS INR-4499</p>	
	<p>INTERNATIONAL PARTICIPANTS</p>			
	<p>STUDENTS (UPTO PHD LEVEL)</p>	<p>POSTDOC/ RESEARCH SCHOLARS</p>	<p>STAFF/FACULTY</p>	<p>INDUSTRY PROFESSIONALS</p>
	<p>USD 45</p>	<p>USD 49</p>	<p>USD 55</p>	<p>USD 59</p>

Payment Methods

SCAN QR CODE



centrefbioinformaticsresearch@cnrb

UPI ID



[PayPal.Me/cbirt1](https://www.paypal.com/india/cbirt1)

PAYPAL ID



ONLINE TRANSFER

Account No. - 120023770387
Bank Name - CANARA BANK
IFSC Code - CNRB0002336
Branch Code - 002336
Branch - Kelangar, Aligarh

Payable to: Centre of Bioinformatics Research and Technology