

Hands-on Training Whole Exome Sequencing Data Analysis From Raw Reads to Clinical Insights

2 Weeks | 26 May-10 June 2025
Registration Closes: 25 May 2025
7:00 - 8:00 PM (IST) | Monday to Friday

ONLINE

ABOUT THE TRAINING

Join this 2-week online training to master the complete workflow of whole-exome sequencing data analysis—from raw reads to clinically relevant variant interpretation.

REGISTRATION PROCESS

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

To get the application form and fee details and for any other queries, write to us at info@cbirt.net or call us at +91 6398142849.



Visit: www.cbirt.net/training

TOPICS

- ✓ Introduction and applications of Exome sequencing
- ✓ Data Acquisition & Quality Control
Hands-on: Data download, FastQC, MultiQC, trimming
- ✓ Alignment to Reference Genome
Hands-on: BWA-MEM alignment, SAMtools usage
- ✓ Post-alignment Processing
Hands-on: Picard for duplicates, GATK for BQSR
- ✓ Variant Calling - SNPs and Indels
Hands-on: GATK HaplotypeCaller, VCF exploration
- ✓ Variant Filtering & Annotation
Hands-on: Filtering (GATK/bcftools), ANNOVAR, snpEff
- ✓ Functional Interpretation
Variant prioritization and scoring tools: SIFT, PolyPhen, CADD

PROGRAM BENEFITS

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

COURSE INSTRUCTORS

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

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WORKSHOP 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 PHD LEVEL)

INR-2500



POSTDOC/RESEARCH SCHOLARS

INR-2750



STAFF/FACULTY

INR-3000



INDUSTRY PROFESSIONALS

INR-3500



INTERNATIONAL PARTICIPANTS

**STUDENTS
(UPTO PHD LEVEL)**

USD 45

**POSTDOC/
RESEARCH SCHOLARS**

USD 50

STAFF/FACULTY

USD 55

**INDUSTRY
PROFESSIONALS**

USD 60

PAYMENT METHODS

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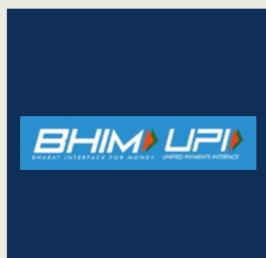
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