

HANDS-ON TRAINING

PRECISION GENOMICS: FROM BIG DATA TO TARGETED THERAPIES



This training will provide participants with hands-on experience in Genomics for Precision Medicine, focusing on the study of variations in the human genome.



Learn to implement variant calling pipelines using industry-standard tools such as GATK, SAMtools, and FreeBayes.



The program also covers the use of leading functional annotation tools like ANNOVAR, VEP, and SnpEff to interpret genomic data for real-world biomedical applications.

PROGRAM BENEFITS

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

COURSE INSTRUCTORS

- Anchal Negi, Bioinformatician, CBIRT
- Dr. Tamanna Anwar, Training Organizer & Founder, CBIRT

31 Aug. - 10 Sept. 2026 | 2-Week
Registration Closes: 30 Aug. 2026
6:00 - 7:00 PM (IST) | Monday to Friday

TOPICS

- Introduction to Genomics for Precision Medicine
- Variations in the human genome: SNPs and Indels
- Raw data formats: FASTQ, BAM, VCF
- Read preprocessing and quality control (FastQC, Trimmomatic)
- Read alignment and reference mapping (BWA, Bowtie2)
- Variant calling pipelines (GATK, SAMtools, FreeBayes)
- Functional annotation tools (ANNOVAR, VEP, SnpEff)
- Predicting variant effects: missense, nonsense, synonymous, regulatory variants
- SNPs visualization using IGV software
- Clinical interpretation of variants & applications in targeted therapy

REGISTRATION PROCESS

Eligibility: Students pursuing B.Sc., B.Tech., M.Sc., M.Tech., and 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: <https://cbirt.net/training/>



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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.

SCAN THE QR CODE FOR THE
REGISTRATION FORM



REGISTRATION PROCESS



STUDENTS

Upto Masters **PH.D**
INR-2000 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



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