USING COMMAND-LINE & LINUX TOOLS

FROM READS TO VARIANTS

A HANDS-ON TRAINING ON WHOLE GENOME SEQUENCING DATA ANALYSIS

TAC TACG   TAC TACG

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: 10 Feb. to 28 Feb. 2025
7.00 PM - 8:00 PM (IST)
Monday to Friday
Registration Closes: 09 Feb. 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

Contact Us

+91 6398142849   www.cbirt.net

CENTRE OF BIOINFORMATICS RESEARCH & TECHNOLOGY

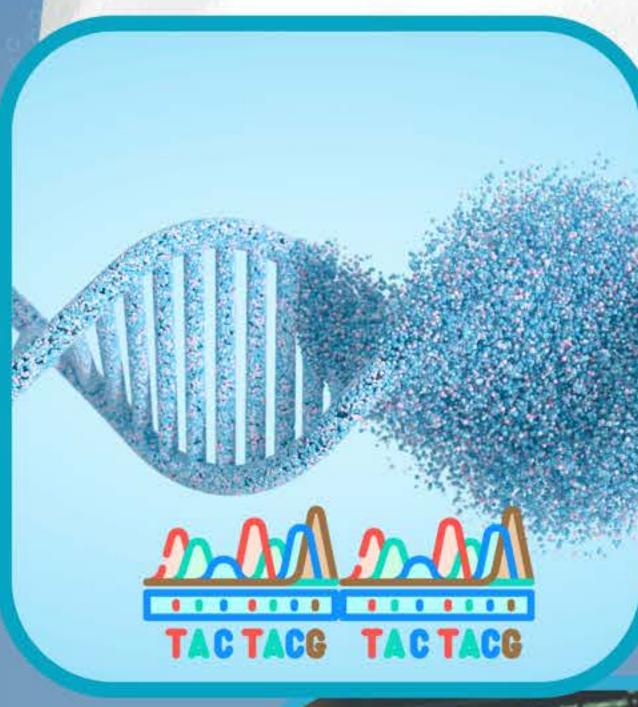**USING COMMAND-LINE & LINUX TOOLS**

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.

WGS Data Analysis Registration

TAC TACG   TAC TACG

Registration Process

STUDENTS (UPTO PHD LEVEL)
INR-2500

POSTDOC/RESEARCH SCHOLARS
INR-3000

STAFF/FACULTY
INR-3500

INDUSTRY PROFESSIONALS
INR-4000

INTERNATIONAL PARTICIPANTS

STUDENTS (UPTO PHD LEVEL)	POSTDOC/ RESEARCH SCHOLARS	STAFF/FACULTY	INDUSTRY PROFESSIONALS
USD 45	USD 50	USD 55	USD 60

Payment Methods

SCAN QR CODE

centreofbioinformaticsresearch@cnrb

UPI ID

BHIM UPI

PAYPAL ID

PayPal

PayPal.Me/cbirt1

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

Contact Us   +91 6398142849   www.cbirt.net