

Hands-on Training on
Nanopore-Based Transcriptome Sequencing
& Data Analysis
February 3rd to 7th, 2025

Registration Form

Name:

Date of Birth: Gender:

Occupation (Teaching Faculty/Scientist/Research Scholar):

Department:

Organization:

Address:

Contact No.:

Email ID:

Education Qualification (University, year of passing, department):

How the training will help in your research work?
.....
.....

Special Accommodations (in payment basis)/Requirements (if any):

Payment Details:

Registration Fee - Rs. 10000/-

Mode of Payment -

Payment Ref. No. -

Declaration:

I hereby declare that all the information provided above is true to the best of my knowledge. I have read and understood the terms and conditions and agree to abide by them.

Signature: _____ Date: _____

Online Registration Link: <http://forms.gle/VkP2z4rvpAJ6ghb37>

Note: Candidates are requested to bring laptop for various bioinformatics analysis.



Five Days
Hands-on Training on
Nanopore-Based Transcriptome
Sequencing & Data Analysis

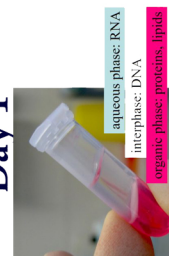
February 3rd to 7th, 2025



Organized By

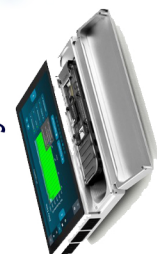
CSB-Central Tasar Research and Training Institute
Central Silk Board
Ministry of Textiles: Govt. of India
Piska-Nagri, Ranchi - 835 303, Jharkhand

Day 1



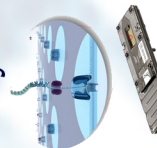
Introduction &
RNA Extraction

Day 2



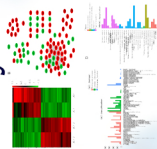
Seq. Library
Preparation

Day 3



Processing of
RNA-Seq Data

Day 4



RNA-Seq Data
Analysis

Day 5



Validation &
Application

ABOUT THE ORGANIZATION

The CSB-Central Tasar Research and Training Institute is an eminent institute under the Central Silk Board (CSB), Ministry of Textiles, Government of India. Established with the objective of fostering excellence in Tasar sericulture, the institute plays a pivotal role in the research and development of Tasar silk production technologies, offering innovative solutions that benefit the entire value chain of silk production—from the farmers to the commercial silk industry. CSB-CTR TI, Ranchi, has evolved into a premier research and training hub not only in the field of Tasar sericulture but also in diverse areas of biotechnology, molecular biology, and genomics. The institute is renowned for its cutting-edge research facilities and commitment to the sustainable development of the sericulture industry in India.

Genotypic Technology Pvt. Ltd. is a leading genomics and biotechnology company specializing in high-throughput sequencing services, bioinformatics solutions, and research collaborations. With a strong focus on innovation, Genotypic has been at the forefront of applying advanced sequencing technologies in various sectors including healthcare, agriculture, and environmental sciences.

OBJECTIVE OF THE TRAINING PROGRAM

Provide participants with in-depth knowledge and hands-on expertise in Nanopore-based transcriptome sequencing and data analysis, empowering them to effectively utilize Nanopore sequencing technology in transcriptomics research, driving advancements in fields such as healthcare, agriculture, and environmental sciences.

PROGRAM HIGHLIGHTS

Introduction to Nanopore Technology and Experimental Design

Fundamentals of Nanopore sequencing, transcriptomics, and RNA-seq experimental design with hands-on RNA quality check.

Nanopore Sequencing Library Preparation and Workflow

Practical sessions on cDNA library preparation, sequencing setup, and optimizing run performance.

Data Analysis and Processing

Basecalling, quality filtering, transcriptome assembly, and differential expression analysis using bioinformatics tools.

Advanced Data Analysis and Isoform Characterization

Isoform detection, alternative splicing analysis, functional annotation, and data visualization techniques.

Experimental Validation and Applications

qPCR validation of results, real-world applications in diverse research areas, and future insights into Nanopore technology.

TARGET AUDIENCE

Teaching Faculties/ Scientists/ Research Scholars from Zoology/Botany/Life Sciences/Biotechnology/Bioinformatics or any other subject of biological sciences are eligible to apply.

VENUE

Theory Sessions: Conference Hall – I, CSB-CTR TI, Ranchi

Practical Sessions: Central Instrumentation Facility, CSB-CTR TI, Ranchi

REGISTRATION FEES

Registration Fee: INR 10000/-

(Registration fee includes training kit, tea, snacks and working lunch)

TRAVEL & ACCOMMODATION

Hostel facility on a payment basis (INR 50/- for accommodation) will be arranged for the participants who require accommodation. Participants must arrange their own travel and the institute will not provide any financial support.

HOW TO APPLY

Interested participants should register for the workshop by filling up a google form (online)/registration form (attached with brochure) and mail it to moltechtrgctrti@gmail.com on or before 13th January 2025.

Totally, 20 candidates will be selected (first come first serve basis). Selected candidates will be intimated on or before 16th January 2025 and pay the registration fees as mentioned above. Participation will be confirmed only upon the receipt of the registration fee on or before 22nd January 2025.

Bank Name: Central Bank of India

Branch: Sukhadeonagar, Ranchi

Account Name: Director CTR&TI Ranchi

Account Number: 1917804302

IFSC Code: CBIN0282343



BRIN UPI Payments Accepted at
Director CTR TI Ranchi



Account Number: 1917804302, IFSC Code: CBIN0282343
Scan and Pay using any UPI supported Apps

ORGANIZING COMMITTEE

Dr. Immanuel Gilwax Prabhu, Scientist - D

Dr. Nidhi Sukhija, Scientist - B

Dr. Jay Prakash Pandey, Scientist - D

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Central Silk Board

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CONTACT DETAILS

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Director

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Central Silk Board

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