



Hands-on Training in Molecular Biology Techniques

4th to 8th December 2023



Organized By

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

ABOUT THE ORGANIZATION

Central Tasar Research and Training Institute (CTRTI) is the premier institution in India dedicated to research and training in the field of tasar silk cultivation and production. With its impeccable legacy, the institute has been at the forefront of ensuring the sustainable growth of the tasar sericulture sector.

The CTRTI boasts of modern infrastructure, with well-equipped laboratories that cater to various scientific research needs. Its Molecular Biology Lab is furnished with cutting-edge equipment and apparatus to ensure practical training par excellence.

With a team of seasoned scientists and experts, the CTRTI ensures that all training programs are delivered at the highest standards. The faculty comprises specialists with in-depth knowledge and vast experience in the field of molecular biology and related disciplines.

Understanding the importance of practical skills in the ever-evolving world of molecular biology, CTRTI is organizing this intensive training program. It's meticulously crafted to provide participants with hands-on experience, ensuring they grasp the nuances of various molecular biology techniques.

OBJECTIVE OF THE TRAINING PROGRAM

Immerse participants in hands-on experience, enhancing their skills and expertise in molecular biology techniques. This program aims to bridge the gap between theoretical knowledge and practical application in a state-of-the-art laboratory environment.

PROGRAM HIGHLIGHTS

Introduction to Molecular Biology Techniques

Basic lab tools, safety procedures, and setups commonly used in molecular biology.

DNA/RNA Isolation and Purification Techniques

Extraction and purification of DNA & RNA and validate the success of their extraction with a Qubit Fluorometer.

Gel Electrophoresis - Principles and Practice

Casting of agarose gel, loading of samples, electrophoresis of agarose Gel, and analyzing DNA bands.

Polymerase Chain Reaction (PCR) - Basics and Applications

PCR reaction setup for cDNA synthesis and amplification of the gene of interest using thermal-cycler, and interpretation of results.

Molecular Cloning - Techniques and Troubleshooting

Ligation, transformation, and confirmation of successful cloning.

Real-time PCR (qPCR) and its Role in Quantitative Analysis

Setup the qPCR reaction, run the procedure, and learn how to interpret the data.

TARGET AUDIENCE

Scientists/Teaching Faculties/Research Scholars/Postgraduate students from Zoology/Botany/Life Sciences/Biotechnology or any subject of biological sciences are eligible to participate.

VENUE

Theory Sessions – Conference Hall – I, CTRTI, Ranchi Practical Sessions – Central Instrumentation Facility, CTRTI, Ranchi

REGISTRATION FEES

Registration Fee - INR 5000/(Registration fee includes training kit, tea, snacks and working lunch)

TRAVEL & ACOMMODATION

Hostel facility on a payment basis (Rs. 300/- for accommodation, breakfast and dinner) 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)/regstration form (attached with brochure) and mail it to **moltechtrgctrti@gmail.com** on or before 15th November 2023.

Totally 20 candidates will be selected (first come first serve basis). Selected candidates will be intimated on or before 18th November 2023 and candidates have to pay the registration fees as mentioned above. Participation will be confirmed only upon the receipt of the registration fee on or before 22nd November 2023.

Registration fee can be transferred through online RTGS/UPI to the following account

detail,

Bank Name: Central Bank of India **Branch**: Sukhadeonagar, Ranchi

Account Name: Director CTR&TI Ranchi

Account Number: 1917804302

IFSC Code: CBIN0282343

BHIM UPI Payments Accepted at Director CTRTI Ranchi Account Number: 1917904300, IFBC Code: CBRIDDE2343 Scan and Pay using any UPI supported Apps

ORGANIZING COORDINATOR

Dr. Immanual Gilwax Prabhu

Scientist - C

Silkworm Breeding and Genetics

Central Tasar Research and Training Institute - Central Silk Board

Piska-Nagri, Ranchi - 835 303.

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CONTACT DETAILS

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CSB - CENTRAL TASAR RESEARCH AND TRAINING INSTITUTE, RANCHI Hands-on Training Program in Molecular Biology Techniques

December 4th to 8th, 2023

Registration Form

Name:	••••••••••••	
Date of Birth:	Gender:	
	culty/Scientist/Research Scholar/Student):	Photograph
Department:	••••••	
Address:	••••••	
•••••	••••••	
Contact No.:		
Email ID:		
Education Qualification (University, year of passing, division/department):	
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How the training will help in your research work and share any prior experience you may have in molecular research?		
•••••	••••••	
Special Accommodations	(in payment basis)/Requirements (if any):	•••••
Payment Details:		
Registration Fee - Rs. 50	000/-	
Mode of Payment	Payment Ref. No	Date:
Declaration:		
I hereby declare that all th	e information provided above is true to the best of	my knowledge. I have
read and understood the t	erms and conditions and agree to abide by them.	
Signature:	Date:	
Online Registration Link		
https://docs.google.com/fo	orms/d/e/1FAIpQLSeX-PDvPWTIaCAqci779MvJC	QyIx0GPy-bILuzaD6oXI