

4-Day Wet-Lab to Dry-Lab Workshop on:

Microbial Identification by Sanger Sequencing:

From Pure Culture to Confirmed Species

WORKSHOP DETAILS

September 7 - September 10, 2026

Timings

- Wet-Lab: 10:00 AM - 6:00 PM IST
- Dry-Lab: 7:00 PM IST

Level: Beginner

Format: Offline + Online

Location:

- **Wet-Lab Venue:** Genexplore Diagnostics and Research Centre Pvt. Ltd., Ahmedabad, Gujarat
- **Dry-Lab Venue:** Online

BONUS: 30-day technical & Bioinformatics support (Dry Lab)

WHO SHOULD ATTEND: Students, graduates, researchers, and professionals in life sciences

Scan the QR to Register
OR

Click here:

<https://forms.gle/isPxrbmqbVqCqUsz6>



Early Bird Discounts: Until August 22, 2026

Last Date of Registrations:

- **Wet Lab + Dry Lab: September 1, 2026**
- **Only Dry Lab: September 4, 2026**



***CHOOSE YOUR LEARNING EXPERIENCE: HANDS-ON WET
+ DRY LAB (LIMITED AVAILABILITY) OR DRY-LAB ONLY.**

ABOUT THE WORKSHOP

Four days. One complete journey from microbial culture to confident species identification.

This hands-on workshop combines wet-lab training with bioinformatics to provide an end-to-end understanding of microbial identification using Sanger sequencing.

Learn how microbial DNA is extracted, amplified, and sequenced before working with real chromatogram files to assess quality, assemble consensus sequences, and prepare them for downstream analysis.

Complete the workflow with NCBI BLAST, multiple sequence alignment, and phylogenetic analysis to identify microbial species, evaluate sequence similarity, and interpret results within their evolutionary context.

From DNA extraction to phylogenetic interpretation, gain the practical skills to transform raw sequencing data into reliable biological insights.

EXPERT LED LEARNING

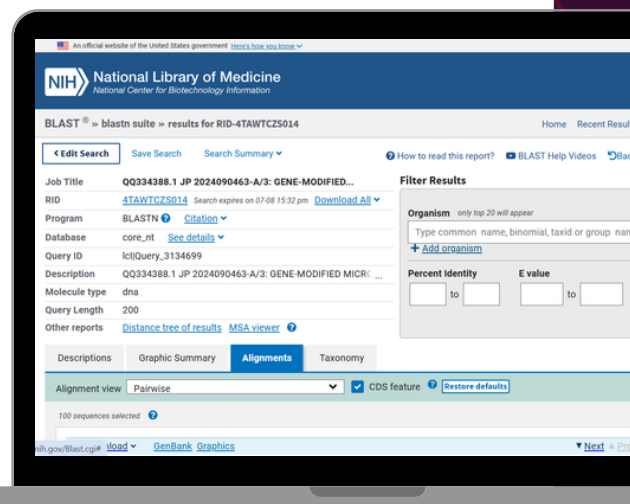
- *Learn from experienced professionals at Genexplore and OmicsLogic as they guide you through every stage of microbial identification. Genexplore leads the wet-lab training, while OmicsLogic takes you through hands-on bioinformatics analysis, creating a seamless learning experience from the laboratory bench to biological insights.*

PREREQUISITES

- *Basic understanding of biology or microbiology*
- *Familiarity with DNA, genes, and PCR concepts is helpful but not mandatory*
- *No prior experience with Sanger sequencing or bioinformatics is required*
- *A willingness to participate in both wet-lab and hands-on data analysis sessions*

WHO SHOULD ATTEND

- Undergraduate (final year), postgraduate & PhD students
- Researchers and faculty in life sciences
- Laboratory and industry professionals
- Microbiology, biotechnology, molecular biology, and genomics enthusiasts
- Anyone seeking practical experience in Sanger sequencing and microbial identification



RESOURCES INCLUDED:



Expert-Led Training

Wet-lab & bioinformatics guidance



Hands-On Learning

Laboratory experiments & data analysis



Laboratory & Bioinformatics Resources

Equipment, reagents, datasets, and open-source bioinformatics tools.



Access to Online Courses & Supplementary Materials

Extended learning resources



Practice Exercises

Guided workflows & analysis



Joint Workshop Certificate

Genexplore × OmicsLogic certification



30-Day Technical Support

Post-workshop assistance for Dry Lab



WORKSHOP CURRICULUM

PHASE 1: WET-LAB (10 AM - 6 PM IST)

Sep 7, 2026 : Day 1 - DNA Extraction & PCR Amplification

Topics Covered

- Culture handling and biosafety
- Genomic DNA extraction from bacterial/fungal cultures (spin-column or equivalent protocol)
- DNA quantification (spectrophotometric/fluorometric) and quality assessment; interpreting purity ratios
- Primer design rationale for 16S rRNA (bacteria) and ITS (fungi); conserved vs. variable regions and the basis of species-level barcoding
- PCR set-up: primer selection, master-mix preparation, and thermal-cycler programming on the Veriti™ system
- Gel check of amplicons; troubleshooting weak/non-specific bands; preparing samples for Day 2



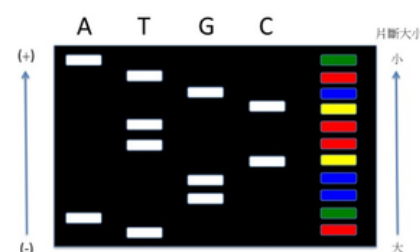
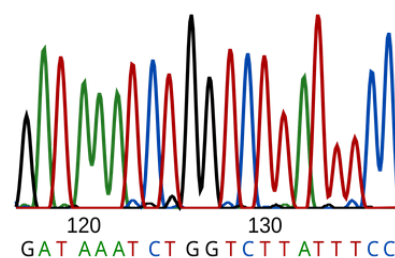
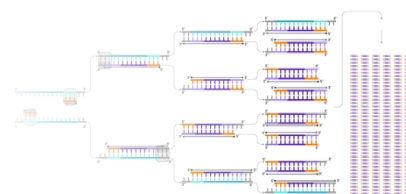
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Sep 8, 2026 : Day 2 - Sequencing Reaction & Capillary Electrophoresis

Topics Covered

- Dye-terminator (Sanger) chemistry: how chain termination produces a readable ladder of fragments
- PCR product clean-up to remove primers, dNTPs, and salts prior to sequencing
- Cycle-sequencing reaction set-up; forward and reverse primers for bidirectional coverage
- Sequencing reaction purification and loading onto the Applied Biosystems 3500 Genetic Analyzer
- Capillary electrophoresis run: how the instrument detects and records the fluorescent signal
- Export of raw .ab1 chromatogram files; what a good vs. poor trace looks like; handover to the OmicsLogic data team



WORKSHOP REGISTRATION PROCESS

OPTION I & II: WET-LAB + DRY-LAB (10 SEATS ONLY)

ACADEMIC FEES

- INR: ~~Rs. 4500/-~~ ***Rs. 3500/**
- USD: ~~75 USD~~ ***60 USD**

INDUSTRY FEES

- INR ~~Rs. 5500/-~~ ***Rs. 4500/ -**
- USD: ~~100 USD~~ ***75 USD**

OPTION II: DRY-LAB

ACADEMIC FEES

- INR: ~~Rs. 3500/-~~ ***Rs. 3000/ -**
- USD: ~~50 USD~~ ***45 USD**

INDUSTRY FEES

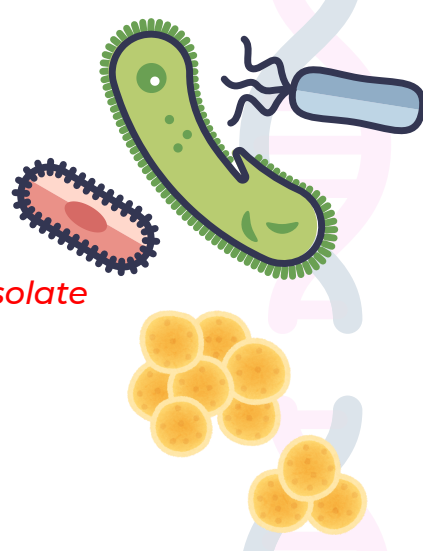
- INR ~~Rs. 4500/-~~ ***Rs. 3500/ -**
- USD: ~~60 USD~~ ***50 USD**

***Discounted price for early registrations applicable only till August 22, 2026**

• **Last Date Of Registrations -**

1. Wet Lab+Dry Lab: September 1, 2026
2. Dry Lab Only: September 4, 2026

- Registrations will close as soon as seats are filled
- **Note: The fee is non-refundable!**
- **Note: For your own bacterial culture, Rs. 2000.00 extra. One isolate per participant.**
- Includes: Workshop kit, lunch provided Days 1-2 for wet-lab participants,
- Dual certification - Genexplore & OmicsLogic
- Not Included: Travel and accommodation



REGISTRATION & CONTACT

Registration and payment links are provided in the Registration Form

- Genexplore: academic@genexplore.co.in | +91 6352938171 (9.00 am to 6.00 pm)
- OmicsLogic : support@omicslogic.com, communication@omicslogic.com

Wet-lab Location: Genexplore Diagnostics and Research Centre Pvt. Ltd. 1201-1210, 12th Floor, Iconic Shyamal, Shyamal Cross Road, Satellite, Ahmedabad-380015, Gujarat, India; www.genexplore.co.in (visit for location on map)

SCAN TO REGISTER



Or Click here to register:
<https://forms.gle/isPxbmqbVqCqUsz6>

FREQUENTLY ASKED QUESTIONS

Q1. Is the workshop online or offline?

The workshop is delivered in a collaborative format. The wet-lab sessions (Days 1-2) are conducted by GenExplore, while the bioinformatics sessions (Days 3-4) are delivered live online by OmicsLogic.

Q2. Will I receive a certificate?

Yes, participants who successfully complete the workshop will receive a joint GenExplore × OmicsLogic Certificate of Completion, recognizing both the wet-lab and computational components.

Q3. Are recordings available?

Recordings of the OmicsLogic bioinformatics sessions will be made available to participants after the workshop, along with supplementary learning resources.

Q4. Who can attend this workshop?

The workshop is suitable for undergraduate and postgraduate students, PhD scholars, researchers, faculty members, laboratory professionals, and life science industry professionals interested in microbial identification and Sanger sequencing.

Q5. Will I get hands-on training?

Yes. Participants will gain hands-on experience in both laboratory workflows and bioinformatics analysis, covering DNA extraction, PCR, Sanger sequencing, chromatogram analysis, BLAST, and phylogenetic analysis.

Q6. How do I join the live sessions?

A Zoom link will be shared via email a day before the session. Additionally, a calendar invite will be sent a few hours prior to help you join conveniently.

Q7. Where will the wet-lab sessions be conducted?

The wet-lab sessions (Days 1-2) will be conducted at GenExplore Diagnostics and Research Centre Pvt. Ltd., Ahmedabad, Gujarat.

