Genexplore Diagnostics & Research Center Pvt. Ltd.

Collaborative Workshop for Knowledge & Skill Development

BVPET

Three Days Hands on Workshop

Decoding the Gut Microbiome for Health: 16S rRNA Metagenomics & NGS

DATES: 20-22 JULY 2026 10.00 AM TO 6.00 PM

The gut microbiome represents one of the most complex and fascinating ecosystems within the human body, influencing everything from metabolic health to neurological function. Understanding this intricate microbial community has become a cornerstone of modern biomedical research. Through this intensive hands-on workshop, participants will gain practical expertise in 16S rRNA-based metagenomics, unlocking the ability to transform raw biological samples into actionable microbiome insights.

ABOUT THE WORKSHOP

This hands-on, application-driven workshop provides complete exposure to gut microbiome analysis using 16S rRNA metagenomics.

Participants will follow a step-by-step workflow from sample to biological insights:

- Microbial DNA Extraction from gut (stool) samples
- 16S rRNA Gene Amplification targeting bacterial diversity
- DNA Quantification & Quality Control (QC)
- Library Preparation using Ion 16S™ Metagenomics Kit
- Next-Generation Sequencing (NGS) on Ion Gene Studio™ S5 Platform
- Bioinformatics Analysis using industry-standard tools and guided Omics Logic modules
- Data Interpretation to generate meaningful microbiome insights

UNIQUE FEATURES

- ✔ End-to-End Training: From wet lab to dry lab in 3 days
- ✔ Hands-on Experience on real samples and instruments
- ✔ Clinical & Research Relevance of microbiome data
- ✔ Guided Bioinformatics – no coding expertise required
- ✔ Expert Mentorship from genomics professionals

TECHNOLOGIES COVERED

- Ion 16S™ Metagenomics Kit
- Ion GeneStudio™ S5 Sequencing Platform
- Microbiome Data Analysis Tools (QIIME / OmicsLogic-guided modules)
- Data visualization & interpretation techniques

KEY LEARNING OUTCOMES

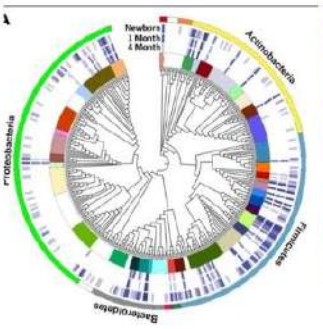
By the end of the workshop, participants will be able to:

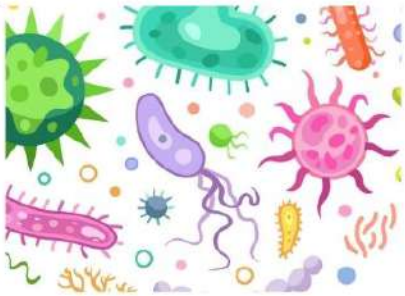
- Understand the role of gut microbiome in human health and disease
- Perform 16S metagenomics workflow independently
- Analyze sequencing data and generate taxonomic profiles
- Interpret microbiome reports for clinical/research applications
- Gain insights into NGS-based diagnostics and microbiome-based studies

Venue:

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





Scan to Register & Pay

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20-22nd July 2026

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LIMITED REGISTRATION: 10 SEATS ONLY

(FIRST-CUM-FIRST BASIS)

WHO SHOULD ATTEND

- Life Science Students (BSc / MSc / PhD)
- Researchers in Genomics / Microbiology / Biotechnology
- Clinicians interested in microbiome-based insights
- Lab professionals looking to upgrade NGS skills

TAKEAWAY BENEFITS

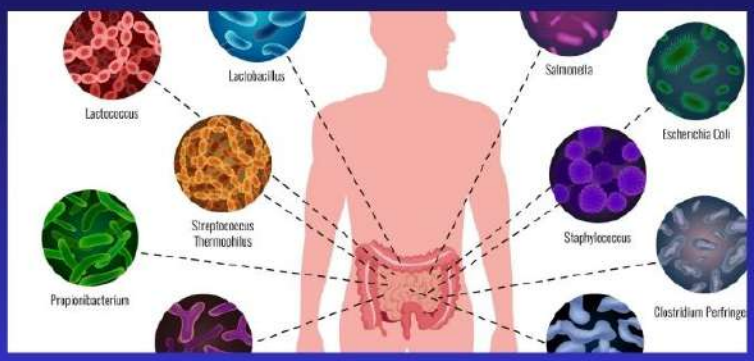
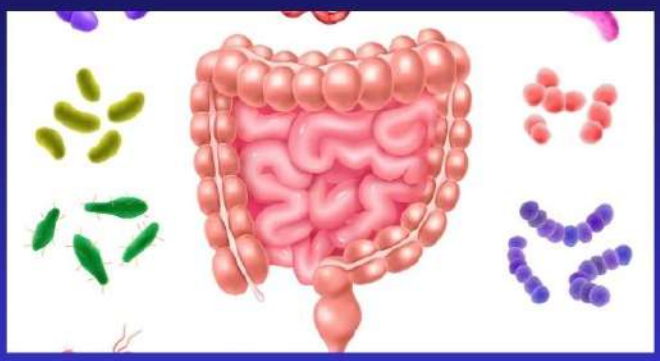
- Certificate of Completion
- Practical exposure with real datasets
- Networking with experts & peers
- Career advantage in Genomics & Microbiome Research

STUDENT FEES	FACULTY FEES	INDUSTRY FEES
Rs. 4000/ -	Rs. 5500/ -	Rs. 7000/ -
Early Bird: 3500	Early Bird: 5000	Early Bird: 6500

- ***LAST DATE FOR EARLY REGISTRATION:*** *JULY 04, 2026, 4.00 PM*
- ***LAST DATE OF REGISTRATION:*** *JULY 16, 2026, 4.00 PM*
- ***REGISTRATIONS WILL CLOSE AS SOON AS SEATS ARE FILLED***
- ***REFUND POLICY: NO REFUNDS***
- **Includes:** Workshop kit, lunch, Tea and certificate
- 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

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