

Pre-Conference Hands-on Workshop

Recent Advances in NGS Chemistry and Technologies for Human Microbiome Research

5-6 October 2026 | UPES, Dehradun

Next-Generation Sequencing (NGS) technologies are transforming microbiome research by enabling high-throughput analysis of microbial communities, comparative genomics, antimicrobial resistance, and metagenomic diversity. This hands-on workshop will provide participants with practical exposure to recent advances in NGS technologies and computational approaches for bacterial, viral, fungal, and human microbiome research. Participants will gain insights into sequence data quality control, genome assembly and annotation, comparative genomics, global datasets, AMR analysis, and targeted and shotgun metagenomic sequencing.

Resource Persons

Dr. Bhabatosh Das, THSTI

NGS technologies, data quality control, genome assembly, and in silico genome annotation.

Dr. Jayashree Das, THSTI

Comparative genomics, clonal analysis, global genomic datasets, and AMR analysis.

Dr. Manjeet Kaur, THSTI

Targeted microbiome and mycobiome sequencing and shotgun metagenomic analysis

Workshop Highlights

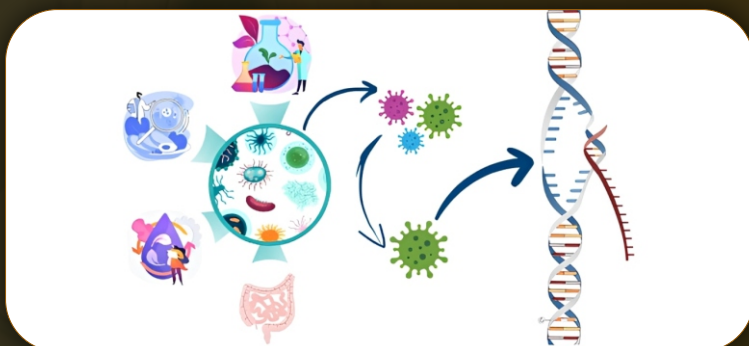
- ▶ Gain insights into recent advances in NGS chemistry and sequencing technologies.
- ▶ Develop practical skills in genomic data quality control, assembly, and annotation.
- ▶ Explore comparative genomics for clonal and antimicrobial resistance analysis.
- ▶ Learn to access and analyze global genomic datasets.
- ▶ Understand targeted sequencing approaches for microbiome and mycobiome research.
- ▶ Explore shotgun metagenomic sequencing and analysis.

Who Should Attend?

- ▶ Faculty Members
- ▶ Researchers
- ▶ PhD Scholars
- ▶ Postgraduate Students
- ▶ Microbiologists
- ▶ Biotechnologists
- ▶ Bioinformaticians
- ▶ Genomics Researchers
- ▶ Healthcare and Life Sciences Professionals

Special Note

Only 25 Seats Available
maximize hands-on instrument time and personalized mentoring.
(First come first served)



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