



# ASSOCIATION OF CLINICAL BIOCHEMISTS AND MICROBIOLOGISTS

Registered No.: F-45138 / Pune, www.acbm.in

*Presents Workshop on*

## Transformative impact of Next-Generation Sequencing and its applications

*Foundational technology  
in Biology & Medicine*

**DAY 1 ONLINE WORKSHOP**

NOVEMBER  
**22<sup>nd</sup>**



MEDGENOME®

We are grateful to MedGenome for their valuable contribution to Day-1 workshop. MedGenome is a Global Leader in Genetic Testing services, Genomics Research and drug discovery solutions.

NGS has transformed the analysis of DNA and RNA, moving beyond the limitations of traditional Sanger sequencing by enabling rapid, high-throughput data generation. It supports whole-genome, exome, transcriptome, and metagenome sequencing, producing large datasets vital for various fields. Beyond research, NGS is now a routine tool in clinical diagnostics, particularly in oncology, germline mutation testing, pharmacogenomics, and infectious disease identification.

In this workshop, we will explore the latest advancements in NGS technology, covering its workflow and applications in clinical diagnostics, population genetics, and infectious and non-infectious diseases. We will analyze annotated variants based on targeted genes, disease types, and symptoms to classify them as pathogenic, likely pathogenic, or variants of uncertain significance, following guidelines from organizations like ACMG, AMP, NCCN, and ELN. Additionally, we will discuss the emerging area of analyzing single-nucleotide variants and copy number alterations from RNA sequencing data, as well as identifying both reported and novel fusions.

### WORKSHOP HIGHLIGHTS

#### Overview of Next-Generation Sequencing Technology:

- Current Trends and Advancements
- Basic data analysis workflow
- Virtual lab tour focusing on the sequencing machines & automation

**ONLINE**  
8.30 am - 11.30 am

**Dr. Balaji Rajashekar**, Ph.D.,  
Director Clinical Bioinformatics,  
MedGenome Labs Ltd.

**Manjunath V**,  
Senior Manager, Lab Operations  
MedGenome Labs Ltd.

#### Data prioritization, analysis & reporting of inherited and somatic disorders

**ONLINE 2-3 hrs**  
12 noon - 2.30 pm

**Tamanna Golani**, Senior Genome  
Analyst, MedGenome Labs Ltd.

#### Application of RNA seq in health

**ONLINE**  
4 pm - 5.30 pm

**Dr. Vijay Krishna Nagampalli**,  
Ph.D., Principal Bioinformatics  
Scientist, MedGenome Labs Ltd.



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*Presents Workshop on*

# An insightful workshop on UNPACKING PCR

PCR Reimagined for Multi-Target Panels



**DAY 2 ONLINE WORKSHOP**

*We extend sincere appreciation and with gratitude, we acknowledge ADT India and HUMOLE DIAGNOSTICS for enriching day 2 workshop with their academic support.*

Join us for an insightful workshop, **Unpacking PCR: PCR Reimagined for Multi-Target Panels**, where we will explore the **evolving role of Polymerase Chain Reaction in modern diagnostics**. This session will demystify multiplex PCR technologies, showcasing how they enable simultaneous detection of multiple targets with speed and precision. Participants will **gain a deeper understanding of assay design, workflow integration, and clinical impact across different disease panels**. Ideal for laboratory professionals, and researchers, the workshop bridges foundational PCR principles with cutting-edge applications, empowering attendees to optimize diagnostic strategies in diverse healthcare settings. **Discover how PCR is being reimagined - one panel at a time.**

## WORKSHOP HIGHLIGHTS

Session 1:		C J TAN
The SmartFinder® Technology		Technical and Application Support Manager, ADT Molecular Sdn. Bhd., Malaysia
Session 2:	ONLINE 8.30 am to 12.00 pm	POOJA NARANG
Digital PCR: The Exciting Road Ahead		Director, Head - Commercial Enablement and Customer Engagement, Merck Life Science, India.
Session 3:		NATALIE
MuDT™ Technology		Application Specialist Seegene Inc., Korea.

**Day-1 & 2 Workshops (all 4 workshops)  
Rs. 1,500**

**Students / ACBM (Annual / Life) Members  
special fee - Rs. 1,100**



**Registration & Payment Link for 2 Days Workshops:** <https://forms.gle/gNqS9KeFLCmyimi2cA>

*Workshop will be concluded with individual assignment submissions. Only those who successfully pass the evaluation process will be awarded a certificate.*

**ORGANIZING SECRETARY**

Prof. Kshama Hiremath - Ph: 96209 01222, email: kshamahiremath@gmail.com

**JOINT ORGANIZING SECRETARY**

Dr. Alpa J Dherai - Ph: 97690 80044, email: alpadherai@gmail.com

Dr. Girish Gaur - Ph: 9718673331

**COORDINATOR**

Dr. Siva Adarsh - Ph: 93412 62986, email: sivaadarsh@hotmail.com

Dr. Anish Kumar, A.P., Department of Bioinformatics,

Lovely Professional University, Ph No. 9780715793 - (Coordinator for LPU students/staff only).

**Mark your calendar  
for  
these Workshops**

**Dr. Ajay Soni**  
President ACBM