

SYMPOSIUM



# CLINICIAN'S ROADMAP

## TO GENOMICS AND TRANSCRIPTOMICS RESEARCH

From Clinical Question to Genomic Insight



29<sup>th</sup> AND 30<sup>th</sup>  
MAY, 2026



VENUE  
AIIMS, New Delhi

### TENTATIVE AGENDA

#### DAY 1

TIME	SESSION TITLE	FOCUS	SPEAKER
<b>SESSION 1   The Clinical Roadmap: What Are We Measuring?</b>			
09:30 – 10:05	DNA, RNA, and Protein: The Multi-Omics Decision Tree	Which biological layer answers which research question	_____
10:05 – 10:40	Choosing Between Panels, Exome, and Genome	Cost, coverage, and sequencing strategy	_____
10:40 – 10:50	Quick Quiz	—	_____
10:50 – 11:10	TEA BREAK	—	—
<b>SESSION 2   Sequencing Technologies and Approaches</b>			
11:10 – 11:45	RNA-Seq Hierarchy: Bulk, Single-Cell, and Spatial	When added resolution changes outcomes	_____
11:45 – 12:20	Beyond Short Reads: When Do You Need Long-Read Sequencing?	Structural variants, isoforms, complex regions	_____
12:20 – 12:55	Sequencing Depth and Coverage: How Much Data Is Enough?	Reads, coverage, and study power	_____
12:55 – 13:05	Quick Quiz	—	_____
13:05 – 13:45	LUNCH	—	—
<b>SESSION 3   Data Generation</b>			
13:45 – 14:20	From Sample to Sequence: Sequencing Platforms and Library Preparation, What Clinicians Should Know	Understand how platform and library choices impact coverage, accuracy, and downstream analysis	_____
14:20 – 14:55	Case Walkthrough: Interpreting a Real Omics Dataset	—	_____
14:55 – 15:30	Post-CME Quiz and Q&A	—	_____

### ABOUT THE WORKSHOP

This workshop is designed for clinicians to understand how genomics and transcriptomics can answer real-world clinical questions. Through expert talks and case-based sessions, participants will learn to choose the right approach, interpret data, and translate insights into impactful research.



### ORGANISING COMMITTEE



CHAIRPERSON

**Dr. Arulselvi Subramaniam**

Professor & Head, Division of Trauma Laboratory Medicine



CO-CHAIRPERSON

**Dr. Deepak Agrawal**

Professor, Department of Neurosurgery



ORGANISING SECRETARY

**Dr. Venencia Albert**

Scientist, Department of Laboratory Medicine



### INVITED FACULTY

FACULTY	AFFILIATION
Prof. Sourav Banerjee	NBRC, Manesar
Assoc. Prof. Ishan Gupta	IIT Delhi
Prof. Samrat Chatterjee	THSTI
Dr. Veena Patil	NII

SCAN TO REGISTER



REGISTRATION LINK

<https://event.parmmfoundation.org/events/symposium-clinicians-roadmap/>



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Join leading experts and clinicians to navigate the path from

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## TENTATIVE AGENDA

### DAY 2

TIME	SESSION TITLE	FOCUS	SPEAKER
<b>SESSION 5   Demystifying the Bioinformatics Report: A Clinician's Guide to Data Interpretation</b>			
09:00 – 09:35	The Bioinformatics Pipeline: From Raw Reads to Interpretable Data	Alignment, variant calling, reference databases	_____
09:35 – 10:10	From Statistical Significance to Biological Meaning	Pathways, interpretation, avoiding false signals	_____
10:10 – 10:25	Post-CME Quiz and Q&A	—	_____
10:25 – 10:45	<b>TEA BREAK</b>	—	—
<b>SESSION 6   Research Design &amp; Translation</b>			
10:45 – 11:20	Framing the Question: From Clinical Problem to Omics Study	Cohorts, endpoints, hypothesis	_____
11:20 – 11:55	Validation and Closing the Loop: From Gene Lists to Biomarkers	Reproducibility, targeted assays	_____
11:55 – 12:30	Genomics in Practice: Consent, Data Privacy, and Incidental Findings	Ethics, ownership, reporting	_____
12:30 – 13:05	Panel: Building Your Genomics Research Ecosystem Q&A	Collaborations, funding, infrastructure	_____
13:05 – 13:30	<b>Closing Remarks and Lunch</b>	—	—

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