



WORKSHOP FOR

UNDERSTANDING THE LOGISTICS & STUDY DESIGN FOR TRANSLATIONAL RESEARCH USING FLOWCYTOMETRY, DIGITAL & REAL TIME PCR PLATFORMS

Funding Agency: Department of Health Research (DHR)

This workshop will align with ICMR's vision of promoting translational research—by training the participants about identifying the need for research and study design to develop deployable novel solutions in health care by utilising advanced Flowcytometry, ddPCR, qPCR and PCR platforms, spotlighting promising leads in diagnostics, therapeutics, vaccines, and biomedical interventions that have been validated for efficacy and readiness for societal deployment.

Objective - To showcase and build capacity around research innovations that are close to real-world application—bringing together scientists, clinicians, and translational experts to bridge the gap from bench to bedside.

6th – 8th October 2025

Amrita Research Center Delhi NCR

Prof. Shantikumar V Nair

Associate Provost, Head and Dean
Amrita Research Center, Delhi NCR
Amrita Vishwa Vidyapeetham,
Faridabad Campus

Patrons

Prof. Amit Kumar Dinda

Research Director
Amrita Research Center, Delhi NCR
Amrita Vishwa Vidyapeetham,
Faridabad Campus

Organization Secretary : Dr. Ashish Kumar Vyas **Workshop Coordinator :** Dr. Aparup Patra

Organizing Team: Dr. Anubhav Pandey, Dr. Pankaj Jha, Dr. Sreeja Roy, Dr. Bhargab Kalita,
Dr. Anuj Dilwaria, Dr. Ansar Fasaludeen and Mr. Vikas Jha



Registration Fee

₹1,000 + 18% GST (₹1,180/-)

Last Date of Registration

30th September 2025



Scan to Register



Send your application along with payment confirmation details to the Workshop Secretary and Administrative Manager.

ashishk.vyas@fbd.amrita.edu

researchadmin@fbd.amrita.edu

Scan to Pay



DIGITAL PCR & REAL-TIME PCR: QUANTITATIVE ASSAYS FOR DIAGNOSTICS AND MUTATION DETECTION.

DAY 1: FOUNDATIONS & APPLICATIONS IN TRANSLATIONAL RESEARCH

Time	Program
8:30 AM - 9:00 AM	Registration
	Session 1- Inauguration
9:30 AM - 9:35 AM	Pooja Ceremony
9:35 AM - 9:50 AM	Welcome Address and Introduction of participants
9:50 AM - 10:00 AM	Overview of workshop
10:00 AM - 10:30 AM	Keynote Address: From Bench to Bedside – The Vision of Translational Research
10:30 AM - 10:45 AM	Tea Break
Session 2 - Flow Cytometry in Translational Research	
10:45 AM - 11:05 AM	Immune Profiling in Disease – Flow Cytometry Applications
11:05 AM - 11:25 AM	Flow Cytometry in Clinical Setting
11:25 AM - 11:45 AM	Flow Cytometry in Vaccine Research
11:45 AM - 12:00 PM	Panel Discussion
Session 3 – PCR in Translational Research	
12:00 PM - 12:20 PM	Real-Time PCR: From Basic Concepts to Applications in Biomedical Research
12:20 PM - 12:40 PM	Applications of PCR in Clinical Setting
12:40 PM - 01:00 PM	PCR Technologies in Modern Diagnostics: Digital vs. Real-Time
01:00 PM - 01:20 PM	Panel Discussion
01:20 PM - 02:10 PM	Lunch
02:10 PM - 03:30 PM	Lab Session 1A (Group A): Intro to Flow Cytometry – Instrumentation & Panel Design
	Lab Session 1B (Group B): Intro to Real-Time PCR – Protocol Setup & QC
03:30 PM - 03:45 PM	Tea Break
03:40 PM - 05:00 PM	Hands-on Rotation (Switch A & B)

DAY 2: TRANSLATIONAL READINESS – REAL-WORLD INTEGRATION

Time	Program
	Session 4- Logistics for Clinical Trials
9:30 AM - 10:00 AM	Vaccine Trials and Immune Response Monitoring with Flow Cytometry
10:00 AM - 10:30 AM	Clinical Validation and Data Interpretation – Challenges and Solutions
10:30 AM - 10:45 AM	Panel Discussion
10:45 AM - 11:00 AM	Tea Break
11:00 AM - 12:30 PM	Panel Discussion: Academia-Industry Partnerships for Translational Research and opportunities
12:30 PM - 01:00 PM	Investment Scenario in India for Translational Research
01:00 PM - 02:00 PM	Lunch
02:00 PM - 03:30 PM	Lab Session 2A (Group A): Advanced Flow Cytometry – Immune Subset Profiling & Analysis Lab Session 2B (Group B): Digital PCR – Mutation Quantification Hands-on
03:30 PM – 03:45 PM	Tea Break
03:45 PM – 05:00 PM	Hands-on Rotation (Switch A & B)

DAY 3: ETHICS, SCALE-UP & FUTURE PATHWAYS

SESSION 6 – REGULATORY CHALLENGES IN TRANSLATIONAL RESEARCH

Time	Program
9:30 AM - 10:15 AM	Ethical and Regulatory Framework for Translational Research in India
10:15 AM - 10:45 AM	Project Readiness: Scaling from Lab to Field – Key Steps
10:45 AM - 11:00 AM	Panel Discussion
11:00 AM - 11:15 AM	Tea Break

Session 7- Group Activities

11:15 AM - 11:45 AM	Programs on Research Capacity Strengthening to disseminate and create awareness amongst the medical and non-medical students and faculty and researchers
11:45 AM - 12:45 PM	Design a Translational Project – Diagnostic/Therapeutic Focus
12:45 PM - 01:30 PM	Pitch Preparation Guidance – What Makes a Translational Idea Fundable?
01:30 PM - 02:15 PM	Lunch
02:15 PM - 03:30 PM	Participant Project Pitches + Feedback (Mentored)
03:30 PM - 03:45 PM	Tea Break
03:45 PM - 04:30 PM	Valedictory Talk & Certificate Distribution
04:30 PM - 05:00 PM	Closing Ceremony – Reflections, Feedback, & Group Photo

TARGET AUDIENCE

Scientists, Early Career Professors, Medical Doctors and Clinical Researchers, Scholars and Postgraduate Students, Independent and Institutional Researchers.

EXPECTED OUTCOMES-

- Enhanced capacity of the participants in translational research study design and selection of methodologies.
- Understanding regulatory need for data generation and regulatory pathways for product development.
- Compilation of validated leads for making projects to attract financial support.