

TWO DAYS WORKSHOP

Real Time PCR and Droplet Digital PCR Approaches for Diagnosis of Human Viral Infections:

A Hands-on Experience

12th – 13st, March 2026



अखिल भारतीय आयुर्विज्ञान संस्थान रायपुर

State Virus Research and Diagnostic Laboratories (VRDL)

DEPARTMENT OF MICROBIOLOGY

All India Institute Of Medical Sciences, Raipur

अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर

About the Workshop

The Two-Day Workshop on “**Real Time PCR and Droplet Digital PCR Approaches for Diagnosis of Human Viral Infections: A Hands-on Experience**” is designed to provide participants with comprehensive practical exposure to advanced molecular diagnostic techniques widely used in clinical and research laboratories. Emphasizing experiential learning, the workshop covers conventional and automated nucleic acid extraction methods, quantification and quality assessment of DNA/RNA, Real-Time PCR assay design and optimization, and the application of Droplet Digital PCR (ddPCR) for precise and absolute viral load quantification. Participants will gain guided laboratory experience in workflow setup, data analysis, result interpretation, troubleshooting, and quality control practices essential for accurate and reliable viral detection. By combining strong theoretical concepts with intensive practical training, the program effectively connects classroom learning to real-world diagnostic practice, empowering students, researchers, clinicians, and laboratory professionals with the expertise, technical proficiency, and confidence essential for modern molecular diagnostics.

Key Techniques Covered

- ✓ **Nucleic Acid Extraction (Conventional/Automated) and**
- ✓ **Quantification of Nucleic Acid (DNA/RNA)**
- ✓ **Real Time PCR**
- ✓ **Viral Load Estimation in Clinical Cases**
- ✓ **ddPCR Reaction Setup and ddPCR Run**
- ✓ **ddPCR Software Training**

Workshop Highlights

- ✓ **Intensive hands-on training with real laboratory exposure**
- ✓ **Expert-led practical sessions by experienced professionals**
- ✓ **Live demonstrations of advanced molecular techniques**
- ✓ **Certificate of participation upon successful completion**
- ✓ **Limited seats to ensure personalized attention and effective learning**

How to Apply

The candidates can apply in the google form (provided below under registration link or QR code) on/before March 10th, 2026.

No of participants in workshop: Thirty Five (35)

Registration Link <https://forms.gle/zZGfDLhsN6KoZZ7k8>



Registration Fees:

Medical Laboratory Technicians: 900/-

PG Students/Research Scholars: INR 1200/-

Faculty/Scientist: INR 1500/-

Last date for registration is March 10th, 2026

Payment Details:

Account No: 936320110000295

IFSC Code: BKID0009363

Account Name: Molecular Diagnostic Workshop

Branch: Bank of India, Tatibandh, Raipur,



Accommodation:

The participants need to make their own travel and accommodation arrangements. However, on prior request, accommodation may be arranged in nearest hotels on a paid basis only. Lunch and refreshments on the workshop days will be provided by the organizers

For further details contact:

Dr. Sanjay Singh Negi, Professor

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Mr. Kuldeep Sharma, Scientist - C

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Patron



Lt Gen Ashok Jindal (Retd), PVSM, AVSM, YSM
Executive Director and CEO
All India Institute of Medical Sciences, Raipur, CG

Co-Patron



Dr. Eli Mohapatra, Professor
Head & Dean Academics
Dept. of Biochemistry, AIIMS, Raipur, CG

Organizing Chairperson



Dr. Anudita Bhargava, Professor & Head
Organizing Chairperson
Dept. of Microbiology, AIIMS, Raipur, CG

Organizing Secretary



Dr. Sanjay Singh Negi, Professor
Organizing Secretary
Dept. of Microbiology, AIIMS, Raipur, CG

Co-Organizing Secretary



Dr. Madhavi Madkey, Assistant Professor
Co-Organizing Secretary
Dept. of Microbiology, AIIMS, Raipur, CG

Subject Matter Experts



Mr. Kuldeep Sharma
Scientist – C
VRDL, AIIMS Raipur



Dr. Pushpendra Singh
Scientist – C
VRDL, AIIMS Raipur

Organizing Committee

Dr. Vaibhav Tamrakar

Mrs. Sapna Mishra

Mr. Hanuman Prasad

Ms. Rinkal Panjwani

Ms. Pratiksha Pradhan

Mr. Sujoy Mandal

Mr. Jiyan Chandrawanshi

Mr. Md. Rafiqullah Khan

Mr. Kushan Kumar

Mr. Amit Mishra

Ms. Neha Jaiswal

Ms. Shriya Soni