

POST DOCTORAL

Fellowship in Advanced Clinical Microbiology & Infectious Molecular Diagnostics



Get trained by Eminent Faculty and
Experts in Specialised Diagnostics



MedNxt is Dr Lal PathLabs's umbrella program for Post-doctoral Fellowship & certificate courses in specialised areas in the field of pathology.

The training programmes will be run onsite at their state of the art, **85000 sq ft National Reference laboratory, Rohini.**

The National Reference Lab offers highly specialised exposure in diagnostics incorporating cutting edge technology and vast test menu in Molecular Diagnostics, Next generation sequencing, Clinical Cytogenomics, FISH, Microarray, Digital Histopathology, Oncopathology, Transplant Immunology, Autoimmunity Diagnostics, Mass Spectrometry, Biochemical Genetics, Renal pathology and Transmission electron microscopy. The facility tests over **35000 samples** a day, running close to 90000 tests daily.

The program offers a unique opportunity to learn from the highly experienced faculty and get hands on experience while working with a team of over **60 pathologists** and research scientists and nearly **300 laboratory technologists.**

The students will also get to experience and learn best in class practices in diagnostics from the lab having Accreditations from the College of American Pathologists (CAP) and the National Board for Accreditation of Laboratories NABL for the extensive test menu of **over 3000 tests.** The In-house R&D unit at the National reference Lab is recognized by DSIR, Ministry of Science & Technology, Government of India.

The National Reference Lab has established a strong legacy of excellence in training Primary DNB Pathology candidates, with **four successful batches completing their training.** Building on this strong foundation, the **MedNxt Fellowship Program** was launched to offer advanced, specialised training across diverse fields of pathology. With **three successful fellowship batches completed, the fourth batch is now being launched**—continuing the commitment to developing specialised expertise, advancing diagnostic capabilities, and shaping the next generation of future-ready pathology professionals.

ABOUT DLPL

Dr Lal PathLabs is India's Leading & Trusted Diagnostics Company

Founded in **1949 • 75+** years of Diagnostic Expertise

Established in 1949 by Late Dr. Major S.K. Lal, it has over 75+ years of experience in providing quality healthcare diagnostics. It offers ~5000 tests & employs more than 4,000 personnel.



It is India's one of the largest Diagnostics chains with **30+ NABL** accredited Labs all over India

We have won many awards over the course of its journey. Some being: -



Advanced Clinical Microbiology and Infectious Molecular Diagnostics Fellowship Program

Why choose this program?

- Gain comprehensive exposure and in-depth knowledge in clinical microbiology, infectious disease diagnostics and molecular diagnostics.
- Obtain Hands on training with one of the most advanced Pathology Lab setups in India.
- Learn and strengthen operational know-how related to laboratory accreditations such as **ISO, NABL** and **CAP** in microbiology.
- Gain exposure to a wide range of high-end tests using advanced technology platforms.

Minimum Eligibility

MD/DNB in Microbiology (Degree must be obtained from recognized Institute.)

Who is this program for ?

- Ideal for mid-career microbiologists looking to transition into specialised areas.
- For microbiologists looking to update their knowledge and technical know-how as per the latest laboratory accreditation and industry practices.
- For microbiologists seeking hands-on training in advanced tests and best laboratory practices.

Admission Procedure

Online Registration & profile submission on Registration link

<https://www.lalpathlabs.com/mednxt-fellowship-program>

Profile evaluation with statement of Purpose followed by personal interview of shortlisted candidates

COURSE DURATION
12 Months

COURSE Fees
INR 1,20,000

STIPEND Per Month
INR 1,00,000

Evaluation Procedure

The evaluation methodology is at the discretion of the faculty and includes exams, internal evaluations, case log book evaluation, research project completion and performance at the summative examination. A minimum of **75% attendance** is a prerequisite for the successful completion of this programme. Participants will have to secure the minimum pass marks in the respective evaluation components.

COURSE CONTENT

1. HIV • HBV • HCV Molecular Diagnostics – 8 Weeks

- Real-Time PCR Platforms
- Viral Load & Quantitative Assays
- Treatment Monitoring
- Viral Kinetics Interpretation
- Troubleshooting

2. Transplant Virology & STI Molecular Diagnostics – 6 Weeks

- CMV, EBV, BK Virus PCR
- Opportunistic Viral Infections
- STI: Chlamydia, Gonorrhoea, HSV, HPV
- Multiplex STI Panels
- Transplant Infection Support

3. Clinical Genomics & Sequencing – 16 Weeks

- Sanger Sequencing
- Oxford Nanopore Technology (ONT)
- Drug Resistance Mutation Analysis
- Pathogen Characterization
- Molecular Epidemiology
- Bioinformatics & Variant Interpretation

4. Mycobacteriology & Mycobacterial Molecular Diagnostics – 10 Weeks

- Culture & Identification
- MGIT & DST
- NTM Identification
- MALDI-TOF Speciation
- GeneXpert MTB/RIF
- Xpert MTB XDR
- CBNAAT, PCR and LPA
- 1st & 2nd Line DST
- Clinical Interpretation

COURSE CONTENT

5. Clinical Microbiology & Antimicrobial Resistance – 8 Weeks

- Bacteriology & Blood Culture
- MALDI-TOF MS
- VITEK AST & CLSI/EUCAST
- Carbapenemase Detection
- BioFire® & QIAstat-Dx® Panels
- Medical Mycology
- Antifungal AST by BMD
- Infection Control & Antimicrobial Stewardship

6. Infectious Disease Serology & Immunodiagnostics – 4 Weeks

- Rapid Tests and Agglutination
- CMIA, CLIA & ELISA Platforms
- HIV, Hepatitis, Dengue, Leptospirosis, Syphilis, TORCH & Emerging Diseases
- Novel Assays & Confirmatory Algorithms
- Clinical Interpretation Skills

7. Academic & Research Activities

- One Research Project
- One Scientific Poster Presentation
- Journal Club Presentations
- Case-Based Discussions
- Quality Improvement Project



Dr. Shalabh Malik

Technical Director -
(Microbiology, Infectious Molecular & Clinical Pathology)

Dr. Shalabh Malik is an MD in Medical Microbiology from L.T.M. Medical College, Sion, Mumbai, and currently serves as Technical Director – Microbiology, Infectious Molecular & Clinical Pathology at Dr Lal PathLabs. With **28 years of experience** in Clinical Microbiology across Delhi/NCR and India, he brings extensive expertise in clinical diagnostics and laboratory management. He is a **NABL 15189 Assessor** and an authorised **Technical Inspector for the College of American Pathologists (CAP)**. His key areas of expertise include laboratory automation, antimicrobial resistance, mycobacteriology and laboratory quality management. He has contributed to **25+ scientific publications** and posters and has been a speaker and panellist at **300+ national**, IMA and clinical society forums. He is also a life member of several leading professional microbiology associations. Beyond his clinical and laboratory expertise, Dr. Shalabh Malik has contributed to national infectious disease policy and guideline development, including as a member of the **RNTCP committee that framed the Standard Tuberculosis Care (2012)**. He has engaged with **MoHFW, NACO and national stakeholders on TB elimination, HIV/STI diagnostic standardisation and private-sector integration** and has contributed expert perspectives to the **2026 AMR Surveillance – One Health Roundtable**. He has also been invited by IIT Bombay/Wadhwani Innovation & Translation Centre for strategic discussions on next-generation therapeutics and **Novel Alternative Methodologies (NAMs)**. His extensive professional contributions reflect expertise spanning diagnostic.

GENERAL GUIDELINES Summary FOR MEDNXT – Post Doctoral Fellowship & Certificate Program

- You will be bound by all rules, regulations, office orders, quality controls, information security procedures, code of conduct and circulars in existence and framed by the company from time to time, which will form a part of your terms of candidature with us.
- You shall keep the Organization informed of your latest postal address and any communication sent to you by the Organization on your last known address shall be deemed to have been duly served notwithstanding the fact that you may have changed your address.
- You will be responsible for the safe custody of all possessions (documents, manuals and kits or any other property etc) belonging to the company that may be entrusted to you by organization.
- You will follow the confidentiality Clause, leave policy, POSH Act, IT Acts and any other code of conducts which would be applicable to you. The detailed guidelines along with code of conduct for each applicable Act/Law would be provided to you at the time of joining.
- There would not be any refund/adjustment of or for Fees paid by you.
- The management may withdraw or terminate your candidature by giving 15 days written notice without assigning any reason. Similarly, you may withdraw your candidature by giving 15 days written notice.
- In case of exit either voluntary or involuntary from the program all the assets either hard or soft provided to you have to be returned to the organisation, unless the organisation allows.
- The Candidature shall be governed and construed in accordance with the laws of India. It is agreed that any dispute of whatsoever nature between you and Management will be subject to exclusive jurisdiction of courts in Delhi.

Note :- A detailed information of all the applicable Laws/Act/Code of conduct would be provided at the time of joining.

Email Id :- MedNxt@Lalpathlabs.com | Mobile :- 8460133122

Registration Link :- <https://www.lalpathlabs.com/mednxt-fellowship-program>