

**POST DOCTORAL**

Fellowship in  
**Histocompatibility,  
Transplant-  
Immunology and  
Immunogenetics**



Get trained by Eminent Faculty and  
Experts in Specialised Diagnostics





**mednxt**  
Post-Doctoral Fellowship & Certificate Programs

at National Reference Laboratory (NRL)  
Rohini, New Delhi

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 been training primary DNB Pathology candidates with excellent results over the last five years and now opens avenue to train in advanced, specialised fields in pathology through the MedNxt program.

# 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: -



## Histocompatibility, Transplant - Immunology and Immunogenetics Fellowship Program

### Why choose this program?

- Gain vital exposure to Industry's best practices in Pathology.
- Obtain practical/on Job training with one of the most advanced Pathology Lab setups in India.
- Learn/strengthen operational know how for Accreditations like ISO, NABL, CAP for Pathology Industry.

### Minimum Eligibility

MD/DNB in Pathology, MD/DNB Transfusion medicine (Degree must be obtained from recognized Institute).

### Who is this program for ?

- Ideal for Mid-career Pathologist looking to transition to specific branches.
- For pathologists wanting to update their knowledge & technical know-how as per the latest industry Accreditations.
- Pathologist wanting to get hands on training on latest tests & best in Lab 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 50,000**

### 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.

For more information connect at  
<https://www.lalpathlabs.com/mednxt-fellowship-program> or 8460133122

## Program Directors



**Dr. Jasmeet Kaur**

**Technical Director**

**Advanced Histocompatibility & Immunogenetics**



Dr. Jasmeet Kaur has done **MD – Pathology from Armed Forces Medical College (AFMC), Pune University, India & her PhD**, in Transplant Immunology & Immunogenetics from AIIMS, New Delhi, India. Currently, she is the Technical Director for Histocompatibility, Transplant Immunology & Immunogenetics. She is well versed with the National and International accreditation and regulatory affairs. She heads research and development activities involving developing and validating new assays & launching new tests as per the clinical dynamics. She has 24 years of teaching experience & has been Faculty at prestigious institutes like Armed Forces Medical College (AFMC), Pune University, King George's Medical University (KGMU), Lucknow, Army Hospital (Research & Referral), Delhi University, etc. She has guided many MD (Path) residents & PhD, DNB & Pathology students. She has been Faculty and Guest Speaker at various National & International Conferences and has many prestigious awards to her credit. Her research interests are focussed on the field of bone marrow Transplants and solid organ Transplants.

# COURSE CONTENT

## 1. Curriculum

- Molecular testing and Immunogenetics in Transplant laboratory Understanding workflow and techniques and analysis
- Orientation in sub-departments of - Serology & Molecular testing
- Understanding the documentation requirement and orientation about Department workflow
- Serology Laboratory workflow, testing, and analysis
- Flow-cytometry in Transplant Immunology

## 2. Topics covered in form of reading assignments, presentations, and Journal clubs

- Genetics and biochemistry of public and private HLA epitopes
- Principles of serological, flow cytometric, and DNA methods used in histocompatibility testing
- The genetics and biochemistry of other MHC components
- Analysis of antibody specificity
- Principles of immune regulation, and the principles of various crossmatching techniques.
- Clinical aspects of diseases for which histocompatibility testing is useful
- Technical considerations of methods used in histocompatibility testing: Hands on training in supervision of senior technologist
- Interpretation of test results and recommendations for further testing: This is done by directly co-reviewing cases with Department director.
- Management Principles: Overview of basic management principles unique to histocompatibility/ transplantation laboratories.
- Research and Development: Because histocompatibility testing is continually evolving, each fellow will be given the opportunity to pursue a research project.
- This project could be in the development and standardization of new techniques, or in clinically applied research relevant to clinical applications of histocompatibility and immunogenetics.

## 3. Department of flowcytometry

- Principle of flow cytometry
- What's multicolor flowcytometry
- Principle and applications of flowcytometric principles in HLA transplant and immunology.  
Hands on training on flowcytometry

## 4. Department of Immunogenetics

- DNA and basics of DNA extraction methods
- Automated methods for DNA extraction
- Principles and applications of NGS in transplant immunology

## 5. Facilities

- HSC/BM Transplantation: Related Donor
- HSC/BM Transplantation: Unrelated Donor
- Solid Organ Transplantation: Deceased Donor
- Solid Organ Transplantation: Live Donor
- Histocompatibility Testing for Other Clinical Purposes

## 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>