

CURRICULUM VITAE

Dr Deepak Kumar Mishra, MAMS, FICPath, FUICC, FISHTM

MD Pathology (Armed Forces Medical College, Pune)

Post Doctoral Fellow in Haematology (AIIMS, New Delhi)

Current Position and Address:

**Senior Consultant & Professor, Laboratory Haematology and
Molecular Pathology**

Director, Department of Laboratory Services

Tata Medical Center, Newtown, Rajarhat,

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Educational Qualifications and Specialty / Super-Specialty Training

Qualification	Year of Passing	Institute
MBBS	1983 (1978 – 1983) (Best Medical Graduate)	VSS Medical College, Burla, Sambalpur, Odisha, India.
MD, Pathology	1990 (1987 – 1990)	Armed Forces Medical College, Pune
Post-Doctoral Fellow (PDF) (Haematology)	1996-1998	All India Institute of Medical Sciences (AIIMS), New Delhi.

Professional Timelines

Sr No	Duration	Designation	Institute / Organisation
1	03 rd May 2010 onwards (11 yrs 09 months & continuing)	Director Laboratory Services and Senior Consultant, Laboratory Haematology & Molecular Pathology Professor in Clinical Haematology under NBEMS	Tata Medical Center, Kolkata
2	01 st Nov 2009 – 30 th Apr 2010 (06 months)	Chief – Medical Support Services (CMSS) – IL 2 Level Position in TATA Steel Ltd.	Tata Main Hospital, Tata Steel Ltd., Jamshedpur
3	Sept 2003 – Oct 2009 (06 Yrs 02 months)	Senior Adviser & Professor (Pathology and Haematology)	Army Hospital (Research & Referral), New Delhi.

4	Nov, 1998 – Sept, 2003 (04 Yrs 11 months)	Associate Professor Pathology & Haematology	Armed Forces Medical College, Pune
5	01 st Nov, 1996 – 31 st Oct, 1998 (02 Yrs)	Post-Doctoral Fellow in Haematology	All India Institute of Medical Sciences, New Delhi.
6	Dec,1989 – Oct, 1996 (07 Yrs)	Pathologist in various Armed Forces Hospitals as Graded & Classified Specialist and Assistant Professor / Associate Professor in Pathology	Armed Forces Medical College Pune and various Military Hospitals of the Indian Armed Forces
7	Dec, 1987 – Dec, 1989 (02 Yrs)	MD Pathology under Pune University	Armed Forces Medical College, Pune
8	Sept, 1984 – Dec, 1987 (03Yrs 03 Months)	Regimental Medical Officer with a Motorised Infantry Regiment	Armed Forces (Army)

Teaching Experience and Academic Assignments

19 Yrs 10 months of teaching experience as (**Assistant Prof / Associate Prof / Professor**) in **Pathology & Haematology** in Medical Council of India / National Medical Council (**MCI / NMC**) recognized institutions, while serving in the **Armed Forces of India**.

02 Yrs 06 Months of teaching experience as **Professor** in **Clinical Haematology (DrNB)** recognized by **National Board of Examinations** in Medical Sciences (**NBEMS**) at **Tata Medical Centre, Kolkata**.

Total Teaching Experience : 22Yrs 04 Months

Academic University Assignments:

- **Post-Graduate (MD - Pathology) Faculty** of Pune University, Maharashtra University of Health Sciences (MUHS) , Delhi University and National Board of Examinations (DNB – NBEMS), India.
- **DrNB (Clinical Haematology) Faculty (Professor)** under the **National Board of Examinations in Medical Sciences (NBEMS)**.
- **DM (Clinical Haematology & Haemato-Pathology) Examiner of** The Tamilnadu Dr. MGR University of Health Sciences, Chennai (for CMC, Vellore) from 2009 - 2011 and Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh from 2018 – 2020.
- **Institutional Assessor** of NBEMS for **DrNB Clinical Haematology** Course at various institutions in India.
- **Ph.D Examiner** – at King George Medical University, Lucknow.
- **Post-Graduate Examiner (MD – Pathology)** of Pune University, Delhi University, JIPMER Puducherry, Maharashtra Univ of Health Sciences (MUHS), Gujarat University, Saurashtra University (Gujarat), Berhampur University (Odisha), Utkal University (Odisha), Sambalpur University, Rajiv Gandhi University of Health Sciences, Bangalore, West Bengal Univ of Health Sciences (WBUHS) and King George Medical University (Lucknow), India .
- **Post-Graduate Examiner (MD – Transfusion Medicine)** at Sanjay Gandhi Post-Graduate Institute of Medical Sciences (SGPGIMS), Lucknow , India.
- **Post-Doctoral Fellowship Examiner** for Post-Doctoral Certificate Course (**PDCC**) in Apheresis and Blood Component Therapy at the Sanjay Gandhi Post-Graduate Institute of Medical Sciences (**SGPGIMS**), Lucknow, India.
- **Post-Doctoral Fellowship Examiner** for Post-Doctoral Certificate Course (**PDCC**) in Laboratory Haematology at the Christian Medical College & Hospital, Vellore (**CMC Vellore**), India.
- **DNB (Pathology) Examiner** of National Board of Examinations (NBEMS), India.
- **Under-Graduate (MBBS) Examiner** of Pune University, Maharashtra University of Health Sciences, Nashik , AIIMS, Jodhpur and Rajiv Gandhi University of Health Sciences, Bangalore, India.

- **Guided Senior Research Fellows (SRF)** for Senior Research Fellowship under Indian Council of Medical Research (ICMR) at Armed Forces Medical College, Pune, India.

International Fellowships / Training / Visiting Faculty:

- International CML Foundation (iCMLf) **Clinical Preceptorship** in Chronic Myeloid Leukemia at the Dept of Hematology, **Royal Adelaide Hospital**, Adelaide Australia from **15th Sept 2016 to 15th Oct, 2016 (One month)** .
- **UICC International Cancer Technology Transfer (ICRETT) Fellowship** at the Harvard Stem Cell Institute, **Harvard Medical School** and Massachusetts General Hospital, Boston, MA, USA from **17th Aug, 2007 to 16th Oct, 2007 (02 months)** .
- **Visiting Faculty Observer** in the Leukemia and Bone Marrow Transplantation Centre at **Massachusetts General Hospital**, Boston, MA, USA ; an affiliate of Harvard Medical School from **13th Jun, 2006 to 15th Jun, 2006** .
- **Visiting Faculty** in the Division of Hematology, Department of Medicine, University of Massachusetts Medical School and **Univ of Massachusetts Memorial Medical Centre**, Worcester, Massachusetts, MA,USA from **22nd May, 2006 to 02nd Jul, 2006 (06 weeks)** .
- **Visiting Fellow** at the Myelodysplastic Syndromes(MDS) Centre, Department of Hematology, **Stanford University School of Medicine**, Palo Alto, California, USA from **22nd Nov, 2003 to 02nd Dec, 2003 (02 weeks)** .
- **UICC International Cancer Technology Transfer (ICRETT) Fellow** at the Department of Hematology and Hemato-Oncology, **Kings College School of Medicine, London**, UK from **18th Jun, 2001 to 13th Aug, 2001 (07 weeks)** .
- **Clinical Observer** at the Adult Leukemia Research Laboratory, Department of Hematology, **Imperial College School of Medicine & Hammersmith Hospital**, London, UK from **20th Aug, 2001 to 24th Aug, 2001 (01 week)** .
- **Visiting Faculty (Instructor)** at the Division of Hematology, Department of Medicine, **Mount Sinai School of Medicine, New York**, USA from **21st Aug, 2000 to 24th Sept, 2000 (05 weeks)** .

National Academic Assignments

- **Visiting Faculty** at the Department of Clinical Haematology, Christian Medical College Vellore, (**CMC Vellore**) from **16th June,2003 to 31st July,2003** ; as part of the National Academy of Medical Sciences (NAMS), India **Faculty Exchange Programme**.
- **Expert Committee Chair** of Indian Council of Medical Research (**ICMR**) Task Force Sub – Committee on **Myelodysplastic Syndromes (MDS)**.
- **Expert Committee Member** of Indian Council of Medical Research (**ICMR**) Task Force Sub – Committee on **Haematopoietic Stem Cell Transplantation (HSCT)**.
- **Programme-in-charge / Convener** of the Indian MDS Registry under the auspices of the **Indian Co-operative Oncology Network (ICON)**.
- **Nodal Officer**, Tata Medical Centre for COVID 19 Pandemic, Govt of West Bengal. (Mar, 2020 to till date)

Membership of Professional Societies / Associations

- **International Member** of the American Society of Haematology (**ASH**) .
- **International Member** of the British Society of Haematology (**BSH**)
- **International Member** of the International Society of Laboratory Haematology (**ISLH**)
- **International Member** of European Hematology Association (**EHA**)
- **Life Member** of the Indian Society of Haematology and Blood Transfusion (**ISHBT**)
- **Life Member** of the Indian Association of Pathology and Microbiology (**IAPM**).
- **Life Member** of the Indian Society of Blood Transfusion and Immuno-Haematology (**ISBTI**)
- **Life Member** of the Delhi Society of Haematology (**DSH**), New Delhi, India.
- **Life Member** of National Thalassaemia Welfare Society (**NTWS**),
- **Life Member** of Thalassaemia and Sickle Cell Anaemia Welfare Society, Odisha.
- **Member** of Indian Co-operative Oncology Network (**ICON**) and a member of the **ICON – MDS Protocol Committee**.
- **Life Member** of Indian Society of Hospital Waste Management (**ISHWM**).
- **Life Member** Molecular Pathology Association of India (**MPAI**).
- **Life Member** of Molecular Oncology Society of India (**MOSI**).

Fellowships / Memberships:

- **Fellow** of the International Union against Cancer, Geneva, Switzerland (**FUICC**).
- **Fellow** of the Indian Society of Haematology & Transfusion Medicine (**FISHTM**).
- **Fellow** of the Indian College of Pathologists (**FICPath**).
- **Member** of the National Academy of the Medical Sciences (India) (**MAMS**).

National / International Academic Organizational Assignments:

- **Member, Board of Directors** in the International Society of Laboratory Hematology (**ISLH**). (Jun 2016 to Jun 2022)
- **Past Council Member** in the Asia – Pacific Division of International Society of Hematology (**ISH**).
- **President** : Molecular Pathology Association of India (**MPAI**) (2021 -2024)
- **Associate Dean** : Indian College of Pathology (**ICP**) . (2021 -2024)
- **Past - President** : Indian Society of Hematology and Blood Transfusion (**ISHBT**) (2011)
- **Past Vice President**, Indian Society of Hematology and Blood Transfusion (**ISHBT**) (2010)
- **Past President** , Indian Association of Pathology and Microbiology (**IAPM**) (2018)
- **Past Vice President** , Indian Association of Pathology and Microbiology (**IAPM**) (2017)
- **Past Honorary Secretary** , Indian Association of Pathology and Microbiology (**IAPM**) (2011 – 2013).
- **Past Joint Secretary** , Indian Association of Pathology and Microbiology (**IAPM**) (2008 – 2010)
- **Past Associate Editor (Hematology Section)** of the Indian Journal of Pathology and Microbiology (**IJPM**) (2011 - 2014)
- **Past Treasurer** of the Indian Society of Hematology and Blood Transfusion (**ISHBT**)
- **Editor (2002 – 2005)** and **Associate Editor (1999 – 2002)** of the Indian Journal of Hematology and Blood Transfusion (**IJHBT**).
- **Past Vice President** of the Molecular Pathology Association of India (**MPAI**) (2017 - 2020)

Publications in Peer Reviewed Journals: 53

International Publications - 18

International Abstracts - 12

National Publications – 23

Book Chapters :

1. **Deepak Kumar Mishra**, Saheli Banerjee, Neeraj Arora, Mayur Parihar. Book Chapter “**HLA in Hematopoietic Stem Cell Transplantation**” in the book “**Contemporary Bone Marrow Transplantation**” **2021** (pp.1-13)
2. **Deepak Kumar Mishra**, Kunjal Ramanbhai Patel, Mayur Parihar, Ashay Karpe. Book chapter “**Chimerism in Hematopoietic Stem Cell Transplantation**” in the book “**Contemporary Bone Marrow Transplantation**” **2021** (pp.75-98)
3. **Deepak KUMAR Mishra** : **API Text Book of Medicine** , 2017, 2019, 2021 Editions.

INVITED SPEAKER / GUEST LECTURES / ORATIONS

- Delivered invited lectures in more than 100 **National** and **International** Conferences, CMEs, Updates and Workshops between 1998 **until till date**.
- **Dr. JG Parekh Memorial Oration** during the 51st Annual Conference of the Indian Society of Haematology & Blood Transfusion (**ISHBT**) , held from 18 – 21 **Nov, 2010** at Kolkata, India.
- **Dr. RN Ghosh Memorial Oration** at the 17th West Bengal Chapter Annual Meeting of the Indian Society of Pathologists & Microbiologists (**IAPM**), held on 05th **Sept, 2010** at Kolkata, India.

REVIEWER / EDITOR FOR SCIENTIFIC JOURNALS

- **Past Editor** of the Indian Journal of Haematology and Blood Transfusion (**IJHBT**)
- **Past Associate Editor** of the Indian Journal of Haematology and Blood Transfusion (**IJHBT**)
- **Past Associate Editor** of the Haematology Section of the Indian Journal of Pathology & Microbiology (**IJPM**)

- **External Peer Reviewer** for the International Journal of Laboratory Haematology (IJLH), Indian Journal of Cancer, Indian Journal of Haematology & Blood Transfusion (IJHBT), Journal of Association of Physicians of India (JAPI), Indian Journal of Pathology & Microbiology (IJPM), Medical Journal of Armed Forces of India (MJAFI), Current Science, Journal of Post-Graduate Medicine and Asian Journal of Transfusion Medicine.

RESEARCH PROJECTS

Research Profile in the Armed Forces :

1. **Principal Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Study of prognostic factors for response parameters in patients with Multiple Myeloma." (AFMRC Project No. 3417 / 2005) (Completed).
2. **Principal Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "FISH Cytogenetics in the diagnostic and prognostic characterisation of Acute Leukaemias (AFMRC Project 3269 / 2004) (Completed).
3. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Monitoring of Response to Allogeneic Stem Cell Transplantation(Allo-SCT) in Chronic Myeloid Leukaemia(CML) by RT-PCR for Response and Relapse". (3415 / 2005 – Completed).
4. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Qualitative Assessment of Haematopoietic Chimerism after Bone Marrow Transplantation by STR-VNTR." (3414 / 2005 – Completed).
5. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Procoagulant Factors in Stroke in Young." (3341 / 2005 – Completed).
6. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Role of thrombo-prophylaxis in high risk surgical patients with special reference to orthopaedic (total knee and hip replacement) and onco-surgical patients ." (3218 / 2003 – Completed).
7. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Monitoring of response to therapy with Imatinib Mesylate in CML by FISH and RT-PCR for both response and relapse after treatment." (3475 / 2006 – Completed).
8. **Co- Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "To study the role of Thalidomide as an anti-angiogenic agent in MDS." (3357 / 2005 – Completed).

9. **Co-Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Study of Reticulated Platelets in thrombocytopenic disorders. (AFMRC Project 3142 / 2002).
10. **Principal Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled " Evaluation of minimal residual disease (MRD) in chronic myeloid leukaemia (CML) on interferon alpha therapy and other chemotherapeutic agents" (AFMRC Project 3020 / 2000) (Completed).
11. **Principal Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled " Comparative study of the diagnostic value of plastic embedded bone marrow biopsies, biopsy imprints and bone marrow aspirates in various haematological disorders(AFMRC Project 3060 / 2001) (Completed).
12. **Co-Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled " Coagulation inhibitors in malignancies and nephrotic syndrome" (AFMRC Project 2267 / 1999) (Completed).
13. **Co-Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Comparison of efficacy of oral and parenteral iron chelators in thalassaemic children" (2000 - 2003) (Completed).
14. **Principal Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled "Study of coagulation inhibitors in thrombo-embolic disorders with special reference to deep vein thrombosis (DVT)" (1995 - 1998)(Completed).
15. **Co-Investigator** in an Armed Forces Medical Research Committee (AFMRC) sponsored project titled " Study of markers in chronic hepatitis B & C and effects of interferon alpha 2b therapy" (1994 – 1996).(Completed).
16. **Short term research studentship** project of Indian Council of Medical Research (ICMR) during MBBS studies titled "Estimation of fetal haemoglobin in gynaecological malignancies" (1981) (Completed).
17. Associated with a large number of **Research Projects** in the Department of Haematology, All India Institute of Medical Sciences (AIIMS), New Delhi , India during the **Post-Doctoral Fellowship in Haematology** for two years (1996 - 1998). Specific areas were Platelet Factor 3 (PF3) in platelet disorders, Glanzmann's thrombasthenia, Thrombopathic thrombasthenia, Unclassified platelet functional disorders, Acquired haemophilia, Dengue haemorrhagic fever and Hairy cell leukaemia (HCL). (Completed)
18. **Co-Investigator** in Department of Biotechnology (**DBT**) , Govt of India sponsored multicentric project on “ **Role of bone marrow stem cells in myocardial regeneration - a randomised clinical trial**”. (Completed)

Research Profile at the Tata Medical Centre, Kolkata :

1. **Principal Investigator** : Establishment of DHR-ICMR Advance Medical Oncology Diagnostic Services (DIAMOnDS) for Breast and Lung Cancers in the Eastern India as the Regional Hub under the DHR-ICMR Hub & Spoke Initiative. (Ongoing) .

2. **Co-Investigator** : A randomized, multi-Center, double blind, parallel group study to compare the pharmacokinetics, safety and efficacy of two-anti CD20 monoclonal antibodies in combination with CHOP in patients with CD20 - positive diffuse large B-cell Lymphoma (RI-01-002 Study) (Ongoing) .
3. **Co-Investigator** : Computed Tomography (CT) scan derived fatty liver index and abdominal fat index as a simple biomarker for prognosis for cancer patients (CTFAT Study) (Ongoing) .
4. **Co-Investigator** : Gene signatures predictive of pathological response to neo-adjuvant chemotherapy in women with locally advanced, triple negative, breast cancer (GS Study) (Ongoing)
5. **Co-Investigator** : Immunohistochemical and molecular profiling of large B-cell lymphomas with respect to double hit lymphomas (DHL Study) (Completed) .
6. **Co-Investigator** : Developing and validating a cost effective next generation myeloid malignancies panel in Indian patients (MN Study) (Ongoing) .
7. **Co-Investigator** : A randomized, double-blind, placebo-controlled, phase III study evaluating the efficacy and safety of pembrolizumab plus platinum-based doublet chemotherapy with or without canakinumab as first line therapy for locally advanced or metastatic non-squamous and squamous non-small cell lung cancer subjects (CANOPY-1) (Ongoing) .
8. **Co-Investigator** : A phase III, multicenter, randomized, double blind, placebo controlled study evaluating the efficacy and safety of canakinumab versus placebo as adjuvant therapy in adult subjects with stages AJCC/UICC v. 8 II-III A and IIIB (T>5cm N2) completely resected (R0) non-small cell lung cancer (NSCLC) (Canopy-A) (Ongoing) .
9. **Co-Investigator** : International Registry, Observational Prospective Study of Patients with a newly Diagnosed peripheral T-Cell Lymphoma (T-Cell Project) (Ongoing) .
10. **Co-Investigator** : A Phase 1b/2 Open-label Study with randomization in Phase 2 of IMU- 131 HER2/neu Peptide Vaccine Plus Standard of Care Chemotherapy in Patients with HER2/neu Over expressing Metastatic or Advanced Adenocarcinoma of the Stomach or Gastroesophageal Junction (IMU.ACS.001 study (IMU.ACS.001) (Ongoing)
11. **Co-Investigator** : Effect of Pomalidomide-Bortezomib-Dexamethasone Induction on MRD Status in Patients with Newly Diagnosed Multiple Myeloma (PRIME) (Ongoing) ,
12. **Co-Investigator** : Identification of Genomic Correlates of Disease Severity in COVID-19. (Completed)
13. **Co-Investigator** : Identifying and potentially mitigating biologic and treatment-related disparities in head and neck squamous cell carcinoma in India (HNSCC) (Completed)
14. **Co-Investigator** : Vascular remodelling in cancer patients:Role of BRAP gene in the vascular smooth muscle cells after chemotherapy-associated vascular dysfunction(VRIC-Ro-BRAP) (Ongoing)

15. **Co-Investigator** : A phase 3, randomized double blind placebo controlled multi center study of Durvalumab Monotherapy or in combination with bevacizumab as adjuvant therapy in patient with hepatocellular carcinoma who are at high risk of recurrence after curative hepatic resection or ablation(Emerald-2) (Ongoing) .
16. **Co-Investigator** : A phase 1 study of redirected autologous T cells engineered to contain an anti cd19 scfv coupled to cd3 and 4-1bb signalling domains in adults and adolescents with cd19 positive relapsed and refractory B-cell malignancies(Clarion-01) (Ongoing)
17. **Co-Investigator** : A randomized, multi-Center, double bind, parallel group study to compare the pharmacokinetics, safety and efficacy of two-anti CD20 monoclonal antibodies in combination with CHOP in patients with CD20 - positive diffuse large B-cell Lymphoma (RI-01-002 Study) (Ongoing) .
18. **Co-Investigator** : Excavating the relationship between genomic alterations and tumor immune microenvironment in oral squamous cell carcinoma – gingivo buccal (OSCC-GB) to inform immunotherapy. Project under Systems Medicine Cluster (SyMeC), funded by DBT, Govt. of India. (IRB Ref No: EC/GOVT/23/17)-2017 – 2021. (Completed)
19. **Co-Investigator** : Tumour genome profiling and minimal residual disease estimation in acute haematological malignancies using single-platform next generation sequencing strategies. DBT: BT/PR12046/MED/12/665/2014-reg (Ongoing) .
20. **Co-Investigator** : Acute Myeloid Leukaemia : Exploring the feasibility of multimodal Omics based genomic characterization, MRD evaluation and computational drug modelling to inform disease management. Tata Trusts under the aegis of the Tata Precision Oncology Project. (Ongoing) .

MISCELLANEOUS

- **Technical Assessor** in the National Accreditation Board of Laboratories (**NABL**) , under the Quality Council of India (QCI)
- Have assessed more than **25** Laboratories for National Quality Assurance Program in India .