

CURRICULUM VITAE

Name: Dr. Rakesh Bhagwan Demde

Designation: MBBS, MD,
PDF Molecular Pathology (Tata Medical
Centre), PDF Laboratory Hematology
(Tata Medical Centre)

Current Job Profile: Associate
Consultant Molecular Pathologist &
Laboratory Hematology, Tata Medical
Center, Kolkata

Work experience: 8.5 years

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ACADEMIC PROFILE

DEGREE	COMPLETION YEAR	INSTITUTION	PLACE
Post-Doctoral FellowshipMolecular Pathology	2023	Tata Medical Center	Kolkata
Post-Doctoral FellowshipLaboratory Hematology	2021	Tata Medical Center	Kolkata
MD Pathology	2017	Krishna Institute of Medical Sciences	Karad
MBBS	2009	Pad. Dr. Vithalrao Vikhe Patil Medical College	Ahmednagar

1. Former Consultant Molecular Pathologist at Centre for Oncopathology, Mumbai - A unit of Tata Cancer Care Foundation, From 2023-2025.
2. Post- Doctoral Fellowship (PDF) in Molecular Pathology at Tata Medical Center Kolkata, from 2021 to 2023.
3. Post-Doctoral Fellowship (PDF) in Laboratory Hematology at Tata Medical Centre,Kolkata, from 2019 to 2021.
4. Completed certificate course on NGS Bioinformatics, Data analysis & Variant Calling from The Institute of Biotechnological Research in 2024.
5. Former Assistant Professor, Department of Pathology at MGM MEDICALCOLLEGE & HOSPITAL, Navi Mumbai from 2017 to 2019.
6. Former Consultant Pathologist (Part Time) at Metropolis healthcare limited, from 2018 to 2019.
7. Completed QUALITY MANAGEMENT SYSTEMS & INTERNAL AUDITTRAINING in MEDICAL LABORATORIES as per ISO 15189:2012 certificate course.
8. Completed Post graduate residency in the Department of Pathology at Krishna Institute of Medical Sciences, Karad. [NAAC 'A' Grade, NABH accredited, ISO certified and NABL accredited] from 2014 to 2017.

SKILL & EXPERIENCE

MOLECULAR PATHOLOGY

- **Experience with working on following NGS panels**
 - Myeloid Neoplasms
 - Solid tumours (Colon, Pancreatico- biliary, Thyroid carcinoma, GIST, Lung Carcinomas (mutation/fusion panel/ CNV)
 - Hereditary cancer panel
 - HRR gene panel
- **Trained in Next-Generation Sequencing (NGS) sample processing:**
 - Library preparation
 - Enrichment
 - Sequencing
- **Proficient in variant annotation methods using genetic databases:** COSMIC, ClinVar, VarSome, Ensembl, In silico mutation prediction tools (SIFT, PolyPhen, etc.)
- **Experience with endpoint PCR platforms (qualitative and quantitative).** Well versed with quantitative real time PCR assays and extensively worked on BCR::ABL1 and PML::RARA quantitative assay.
- **Experience of working on following molecular platforms and assays**
 - **Sanger Sequencing for KRAS, NRAS, BRAF, TP53, POLE, IDH 1/ 2, RET, CEBPA, MYD88, CXCR4 mutation assay**
 - **IGH/TCRG Clonality assay & IGHV assay**
 - **Fragment analysis for NPM1, FLT3 ITD & CALR assay**
 - **AS-PCR for JAK2 & MYD88 assay**
 - **Methylation specific PCR test assay for CNS tumors.**
- **Experience with cell-free DNA on Digital Droplet PCR (ddPCR) for:** EGFR, AML1::ETO, CBFβ::MYH11, NPM1, BCR::ABL1, BRAF V600E molecular alterations.
- Experience with DPYD, NUDT15 & TPMT test assay
- Proven ability to perform various validation and verification exercises for molecular assays.
- Familiar with various QC steps, analytical aspects, and bioinformatics tools of NGS

HAEMATOPATHOLOGY

- **Proficient in flow cytometry analysis for:**
 - Bone marrow aspirates and biopsies
 - Body fluids
 - Peripheral blood
 - Lymph node core biopsies
 - Minimal residual disease (MRD) analysis of Lymphoid and myeloid Leukaemia's
- **Experience in working on flow cytometry panels for: Lymphoid leukaemia's, Myeloid leukaemia's, Myeloma, Lymphoma, PNH, EMA binding test & MRD panels**
- **Trained in reporting of bone marrow aspirate and biopsies for Haematological disease (Leukaemia, Lymphoma & Anaemia)**
- Experience with haemoglobinopathy analysis using Bio-Rad HPLC analyser
- Proven ability in maintaining daily section work and haematology/clinical pathology section
- Experience in formulating and updating haematology SOPs for new parameters
- **Worked on operating automated haematology analysers including: BECKMAN DXH 900/800 with auto Stainer, Cellavision & Sysmex Xn1000 series.**
- Experience in working on ACLTOP 300 automated coagulometer
- Skilled in performing quality control program and maintenance of haematology instruments

TEACHING EXPERIENCE

Two years teaching experience of working as Assistant Professor to Post graduate & Under graduate students at MGM Medical college, Navi Mumbai. Actively involved with post graduate students in the Journal clubs, MDTs, Case discussions, Thesis discussions & examiner for PG internal examinations. Undertook lectures and practical demonstration for DMLT students while doing fellowship at Tata Medical Centre, Kolkata.

ACHIEVEMENTS & PUBLICATIONS

PUBLICATIONS: 18 in different National & International Journals

ORAL PAPER'S PRESENTED: 05 (at National & International conference)

- Won 2nd Prize for oral presentation on title Molecular profiling of Gastro Intestinal Stromal Tumors (GIST) by Next Generation Sequencing – A single Tertiary Cancercenter experience at 9th Annual Conference of Molecular Pathology Association of India 2022.
- The oral abstract title Comprehensive Biomarker testing in Non-Small Cell Lung Cancer by NGS: a real-world experience was selected at AMP Europe 2023 Congress in Milan Italy