



DR. MITESH SHETTY

Consultant - Medical Genetics

Qualification

MBBS from the University of Mumbai | MSc (Medical Genetics) from the University Of Glasgow, UK | Ph.D (Medical Genetics) from MAHE, Manipal | European Board Certified Clinical Laboratory Geneticist

Overview

Dr. Mitesh Shetty is a highly skilled medical geneticist in Kanakapura Road, with more than 22 years of rich experience. He is currently practising as a Consultant - Medical Genetics at Manipal Hospital Kanakapura Road, Bangalore, bringing deep clinical and laboratory expertise in genetic diagnostics, counselling, and genomic medicine to comprehensive patient care. Dr. Shetty's expertise spans prenatal diagnosis, dysmorphology, skeletal dysplasias, neuromuscular disorders such as Duchenne muscular dystrophy and spinal muscular atrophy, neurodegenerative disorders including Huntington's disease, and chromosomal abnormalities. He is extensively involved in oncogenetics, hereditary cancer risk assessment, and pre-marital genetic screening. Dr. Shetty completed his MBBS from Dr. D.Y. Patil Medical College, Mumbai (under the University of Mumbai), followed by an MSc in Medical Genetics from the University of Glasgow, United Kingdom. He went on to earn a PhD in Medical Genetics from Manipal Academy of Higher Education and holds European Board Certification as a Clinical Laboratory Geneticist. Clinically, Dr. Shetty has personally

supervised and validated nearly 1 lakh of genetic reports across newborn screening, prenatal screening, chromosomal microarray analysis, next-generation sequencing, FISH, karyotyping, and Sanger sequencing. Dr. Shetty's clinical expertise includes genetic counselling for consanguinity, recurrent pregnancy loss, infertility, intellectual disability, and inherited metabolic disorders. He has also played a pivotal role in introducing and standardising advanced technologies such as exome sequencing with whole-genome CNV backbone analysis, pre-implantation genetic testing, somatic mutation analysis, sperm aneuploidy testing, and cancer genomic arrays. His structured clinical judgement and laboratory governance make him widely regarded as the best medical geneticist in Kanakapura Road for comprehensive genetic evaluation. In addition, with medical practice, Dr. Shetty's research contributions span developmental and epileptic encephalopathies, β -thalassemia, Dravet syndrome, cancer genomics, and proteomics. He has served as a Senior Research Fellow in national projects on thalassemia genetics and as a Medical Research Officer in cancer genomics studies. He has conducted hands-on workshops on chromosomal microarray analysis and regularly delivers CMEs focused on integrating genomics into clinical practice. He serves as Course Director for the MSc Genomic Counselling programme and the One-Year Fellowship Programme in Molecular Genetic Pathology under Manipal Academy of Higher Education. His fluency in English, Hindi, Kannada, and Tulu allows him to communicate effectively across diverse patient populations. Through clinical acumen, laboratory leadership, and academic depth, Dr. Mitesh Shetty continues to shape genomic medicine at Manipal Hospital, strengthening its reputation for personalised and evidence-based care, and reinforcing his standing as the best medical geneticist in Kanakapura Road.

Fellowship & Membership

- Short-term Fellowship-Medical Genetics, York Hill Hospital,

Glasgow, U.K.

- European Board of Medical Genetics (EBMG).
- Indian Society of Human Genetics (ISHG).
- Indian Academy of Paediatrics-Genetics Specialty Chapter.
- Bangalore Society of Obstetrics & Gynaecology.
- Indian Society of Inborn Errors of Metabolism.
- Indian Society of Prenatal Diagnosis & Therapy.
- Molecular Pathology Association of India.

Field of Expertise

- More than 22 years of extensive experience in the field of Medical Genetics Prenatal diagnosis & Genetic counseling
- Genetic diagnosis of Down syndrome, Autism, β -Thalassemia, Haemophilia, Duchenne muscular dystrophy (DMD) & Spinal muscular atrophy (SMA) etc.
- Genetic counseling in consanguinity, recurrent abortions, Infertility, Pre-implantation Genetic Screening Test (PGT), Non-Invasive Prenatal Screening (NIPT/NIPS)
- Expertise in Karyotyping, FISH study, Double/Quadruple study, Chromosomal Microarray & Next Generation Sequencing (NGS)
- Risk assessment in hereditary cancer disorders like Breast & Ovarian cancer

Languages Spoken

- English
- Hindi
- Kannada
- Tulu

Awards & Achievements

- Course Director for the M.Sc. Genomic Counselling programme and the One-Year Fellowship Programme in Molecular Genetic Pathology, affiliated with Manipal Academy of Higher Education (MAHE)
- Recognized Guide for Ph.D. in Manipal Academy of Higher Education (MAHE).
- Guided Ph.D., M.Phil & MSc students & trained students for Genetic counseling.
- Received IBM Sponsorship of CAS Project expenses towards clinical research.
- Conducted a public awareness program on Rare disease day (Feb 28), World Cancer day (Feb 4), National Cancer Awareness Day (Nov 7), World Thalassemia Day (May 18) & World Down syndrome day (Mar 19).
- Organized CME on “Integrating Genomics into Clinical Practice” (Jul 18) & “Autism awareness day” (Apr 19).
- Organized end-to-end hands-on workshops on chromosomal microarray analysis on November 26, 2022.
- Organized CME on "New Horizons in Medicine Through Genomics" on 10th November 2024 at Hotel LaLit Ashok, Bengaluru.
- Organized CME for Indian Society of Prenatal Diagnosis & Therapy (ISPAT) in association with Indian Academy Of Pediatrics-Bangalore & Bangalore Society of Obstetrics & Gynecology (BSOG) on 15th March 2025

Talks & Publications

- “Epigenetics in Personalized Medicine” held at PES university on 2nd Jan 2026

- Gnanavarsha 2025 - Controversies to Consensus held by Bangalore Society of Obstetrics and Gynaecology on 29th December, 2025.
- “Genetic counselling in Mosaic embryo & Panel Discussion in RPL in Gunasheela Coclave-2025-Pushing the Frontiers in Infertility in Hotel Conrad on 12th Sep 2025
- “Future of Genomics Research in India-A clinician’s Perspective” Group Discussion in the Genomics and Translational Conference (GATC) 2025, co-organized by IISER Pune, on April 5th 2025.
- “CMA in Prenatal diagnosis” in Advanced Genomic research: International Conference & Workshop on the application of Microarray Technology Organized by MRU, Institute of Medical Sciences, BHU, Varanasi on 5th-7th Mar 2025
- Chairperson: Applications of Genomics in Rare Disorders in 12th Annual Conference of the Molecular Pathology Association of India (MPAICON 2025) at the Christian Medical College, Vellore on 14th February 2025.
- “Do I know the basic of Genetics?” Organized at Akash Institute of Medical Sciences & Research Centre, Devanahalli on 7th Feb 2025
- “Genomics in IEM” in Treatable Inborn Errors of Metabolism at Sterling Mac, Bangalore on 21st Nov 2024
- Case Discussion: Beating the Odds: Managing the Cardiac condition in the viable fetus” in Cutting Edge Perinatology at Lalit Ashok, Bangalore on 17th Nov 2024
- “Autism: Must Know for All physicians” Organized by MedFlix on 20th June 2024