DR. DIPANJANA DATTA

Consultant - Medical Geneticist

Qualification

M.Sc. (Biochemistry and Molecular Biology) | PhD (Genetics and Molecular Biology)

Overview

Dr. Dipanjana Datta is a dedicated and experienced consultant medical geneticist with 16 years of experience in human genetics, currently serving in the Department of Medical Genetics at Manipal Hospitals, Mukundapur, Kolkata. She holds a Master of Science (M.Sc.) in Biochemistry and Molecular Biology from Calcutta University, and a Doctorate of Philosophy (PhD) in Genetics and Molecular Biology from the Indian Institute of Chemical Biology, Kolkata (IICB). She pursued a post-doctoral fellowship at Virginia Commonwealth University (VCU), USA, and is a Board of Genetic Counselling (BGCI) Level II certified Genetic Counselor. Dr. Datta is certified in India and internationally and is highly regarded for her expertise in handling complex genetic conditions. Dr. Datta’s immense credentials make her the foremost Genetics Doctor in Kolkata. Dr. Dutta specialises in diagnosing and formulating treatment plans for a wide range of genetic conditions, from Down syndrome to cystic fibrosis to rarer diseases like Huntington’s disease and Marfan Syndrome. Utilising advanced technologies and testing methods, she uncovers the underlying disorder and customises treatment plans to meet each patient's

specific needs. Her approach empowers patients to understand their genetic makeup and make informed decisions about their care for optimal outcomes. Apart from her clinical experience, Dr. Datta holds notable positions in several prestigious organisations; she is the West Bengal Coordinator for the Organisation of Rare Diseases and is currently nominated as an executive member for the West Bengal Chapter of Foetal Medicine. She has published extensively in international journals of repute like PNAS, Journal of Neurology, Plos One, International Journal of Gastroenterology, Kidney International, etc. Dr. Datta also holds a patent for discovering and validating new biomarkers for metastasis in head and neck cancer and serves as a principal for a diploma course in early intervention in neurodevelopmental disorders. Her memberships in various esteemed associations include the American Society for Human Genetics (ASHG) as a student member, the Indian Society for Human Genetics (ISHG), the Calcutta Consortium of Human Genetics (CCHuGe), the Society for Biological Chemists (SBC), and the Indian Immunological Society (IIS). She is also a member of the Indian Genome Variation Consortium. Dr. Dutta’s patient-centric and approachable demeanour creates a comfortable environment for patients to discuss their health concerns. She actively meets her patients counsels them about the diseases they harbour, and addresses their condition effectively while providing a ray of hope to them.

Fellowship & Membership

- American Society for Human Genetics (ASHG) as a student member
- Indian Society for Human Genetics (ISHG)
- Calcutta Consortium of Human Genetics (CCHuGe)
- Society for Biological Chemists (SBC)
- Indian Immunological Society (IIS)
- Indian Genome Variation Consortium

- Post-doctoral fellow at Virginia Commonwealth University (VCU), USA

Field of Expertise

- Expertise in identifying and managing a wide range of genetic disorders such as Down syndrome, cystic fibrosis, Huntington's disease, and Marfan syndrome.
- Proficient in utilising cutting-edge technology and testing methods to uncover genetic disorders and formulate treatment plans.
- Skilled in providing comprehensive genetic counselling to help patients understand their genetic makeup and make informed decisions about their treatment.

Languages Spoken

- English
- Hindi
- Bengali

Talks & Publications

- Association of IL1B with Helicobacter Pylori-induced Duodenal Ulcer in the Eastern Indian population and Elucidation of the Signalling Pathways of IL1B that Regulate Gastric Acid Secretion.
- Identification and Elucidation of mu-opioid Receptors that Respond to Morphine in the Gut; their Splicing Isoforms and the Role of these Splice Variants in Developing Morphine Tolerance in the Gut.

- The effect of HIV on Myenteric Neurones.
- Biomarker Discovery for Predicting Metastasis in Oral Cancer in the Indian Population.
- Indian Genome Variation Database.
- Idiopathic Spontaneous Abortions.
- Y Chromosome Microdeletions in the Indian Population.
- Cystic Fibrosis, Prenatal Genetics, Risk Prediction, etc.
- Published paper titled ‘Hypercalcemia in an Infant with Primary Hyperoxaluria Type 2: A Novel Association’ in Indian J Nephrology, 2023
- Published paper titled ‘High Incidence of COL4A Genetic Variants Among a Cohort of Children With Steroid-Resistant Nephrotic Syndrome From Eastern India’ in Kidney Int Reports, 2022
- Published paper titled ‘Aromatase deficiency in a tall man: A case report of two novel mutations and review of the literature’ in Bone Rep, 2022
- Published paper titled ‘A Rare Differences of Sex Development: Male Sex Reversal Syndrome (NonSyndromic 46, XX with Negative Sex-Determining Region of the Y Chromosome Gene)’ in J Indian Association Paediatric Surgery, 2023
- Other publications in numerous International Journals, such as the Proceedings of the National Academy of Sciences (PNAS), Journal of Nephrology, Plos One, International Journal of Gastroenterology, etc.