

Next-Generation Sequencing (NGS) – The future of Genomic Medicine is here. Genomics – The Alexander who conquered the world!

Manjeet Mehta

Genetic World Molecular Diagnostic Laboratory, India

Abstract

The Human Genome Project has given us information on the structure of human DNA and how the human genome functions. It has helped identify and isolate human genes, particularly those associated with disease; and has drastically altered our approach to medical care.

Medical professionals conventionally use diagnostics to select the appropriate treatment in almost 70% of their cases. Due to recent advances there has been an increase in the role of molecular genetics and genomics testing in the clinical diagnostics services.

Medical genomics is the speciality of applying and integrating genomic data, as well as information from functional genomics, the genome structure, population studies, epigenomics, proteomics, analysis of systems and pharmacogenomics, all this leading to a better understanding of the genetic bases of drug response and disease initiation & progression.

Genomic testing has brought in a new period in medicine, leading to a medical revolution which is purely evidence-based. Today the genotype gives information about not only the confirmed diagnosis, but even the classification, severity, prognosis, and the best treatment

Healthcare delivery is being transformed by clinical genomics, profoundly altering our approach to medical care, from one of treatment of advanced disease to prevention based on the identification of individual risk.

Biography:

Manjeet Mehta is renowned Medical Geneticist par excellence. She has a rich experience of more than 3 decades in Human Genetics. She has worked with top hospitals in the country including Kokilaben Hospital, Jaslok Hospital, Lilavati Hospital, and Sir Harkishandas Hospital. She has been Research Investigator at the Indian Council for Medical Research (ICMR), India's pioneer institute for biomedical research. She has gained advanced training at North York General Hospital, Toronto, and St. George's Hospital, London. Successfully running diagnostic labs in many cities in the country, Dr Mehta also has several research projects to her credit. She is on the review board for scientific journals. She has several papers to her credit & is invited speaker at several conferences worldwide on Clinical Applications of Advanced Genomic Diagnostics.



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