

Preventive Healthcare Genomics

Significant decrease in the sequencing costs and rising investments in the pharmaceutical industry will help global genomics market to grow at a CAGR of 15.1% to be worth \$19,938.6 million by 2020, according to various reports. North America is the major market in the global genomics market. Asian market, especially India and China, is expected to witness a boost in demand for genomics market. This is as a result of their economic development, increasing genetic research and development activities, drastically reduced mass scale genetic testing costs, and the growing focus of the major players in this region.

In India, this sector is keen to associate with 'Made in India' and 'Make for India' initiatives. Companies are quite keen to develop some locally relevant genetic panels for both human and non human species by setting up advance manufacturing facilities in India.

Genomics is the study of genetic codes and can play a key role in the management of medical conditions in the future. A genome is an organism's complete set of DNA. It is the molecule that contains the genetic instructions required to develop and direct the activities of every organism. A person's genomic data can be very useful in predicting any future disease and may be used to

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predict which treatment option is likely to be most effective and how the person is likely to respond. It can also allow people to take preventive action if they find they carry a genetic mutation that increases their risk of developing disease.



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Genomic data does not tell us much on its own. Clinical information about a person's phenotype has to be considered alongside genomic information to make any sense of the raw data. Phenotypic information includes symptoms, age of onset and physiological measurements like blood pressure. Past medical history and medications also need to be factored in.

