



# The Laws of Genetics Apply Even If You Refuse to Learn Them

Elsayed Ahmed Elnashar

Full-Professor in Kaferelsheikh University, Egypt, E-mail: elsayed.elnashar@spe.kfs.edu.eg

After much anticipation from our previous participants, we are organizing the **“World Congress on Advanced Genetics”** on **29-30 September, 2020** to take place in **Tokyo, Japan**.

The Genetics 2020 deliberations focus on analysis, prediction and prevention of disease as genetics occupies the most important role in the diagnosis of disease and its sub-specialties and is designed to provide a platform for discussion and networking as well as to share new ideas, advancements and research related to the field.

This Academic event includes imperative Keynote forums, plenary presentations, poster presentations, workshops, exhibitions and more. By participating in forums, sharing research and collaborating, the research community will be much benefited.

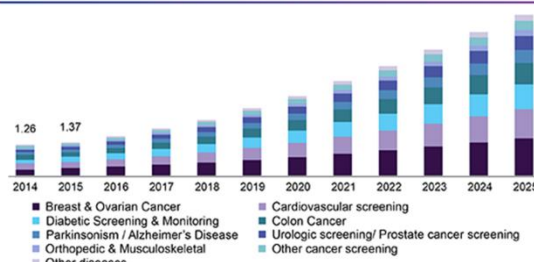
Organized with the motive of accentuating the research with the help of international geneticists, surgeons, engineers and researchers by bringing together all the related experts and professionals under a single summit to emphasize the developments in health care and the future holds of Surgery.

Genomics may be a field at intervals biology that covers the science of the genomes of individual organisms the sector includes intensive efforts to work out the complete deoxyribonucleic acid sequence of organisms and fine-scale genetic mapping efforts. The field additionally includes studies of intragenomic phenomena like heterocyst (outbreeding sweetening, is that the improved or inflated operate of any biological quality during a hybrid offspring), biological process (where the effects of 1 factor are changed by one or many different genes, that are typically referred to as modifier genes), pleiotropic (hen one factor influences multiple phenotypic traits.) and different interactions between loci and alleles within the genome.

The examination field-grade officer the role of individual genes in varied life functions may be a concern of biological science or biology and may be a common topic of today’s medical and scientific research. Research of single genes doesn’t constitute the definition of genetic science unless the aim of this genetic, pathway, and practical info analysis is to elucidate its impact on, place in, and response to the complete genome’s networks.

We are contended to various delegate experts, company representatives and other eminent personalities who supported the conference by facilitating active discussion forums. As per the requests from our previous participants we are glad to introduce the World Congress on Advanced Genetics.

Singapore predictive genetic testing & consumer genomics market share, by application, 2014 - 2025 (USD Million)



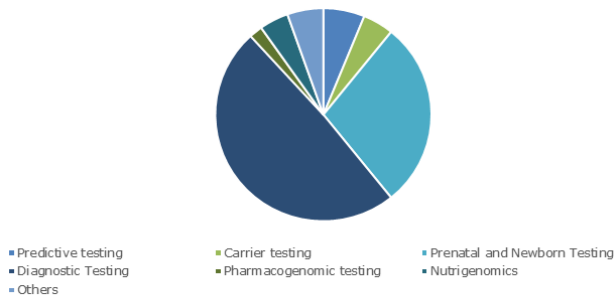
Wide range of applications of genetic testing in inherent diseases and oncology will prove beneficial for genetic testing market growth in coming years. Gene diagnosis assists in estimating the probability of developing cancer in an individual. It works by examining specific changes in chromosomes, genes or protein. It also helps healthcare professionals to find exact cause of diseases. Increasing prevalence of chronic diseases and availability of advanced genetic tests will demand.

Growing preference towards of direct-to-consumer (DTC) genetic testing will benefit business growth. DTC genetic testing eliminates healthcare professional’s involvement and are sold directly to consumers through online platforms. It provides comprehensive understanding of individual’s genomics and enables them to make necessary changes in lifestyle and dietary habits. These help patients to take early precautions in order to avoid further complexities. These features of DTC tests will augment its demand, thereby fuelling the market growth. However, high cost of gene diagnosing tests may hinder the global market growth to certain extent.

Genetic Testing Market Report Coverage			
Report Coverage	Details		
Base Year:	2018	Market Size in 2018:	11.8 Billion (USD)
Historical Data for:	2014 to 2018	Forecast Period:	2019 to 2025
Forecast Period 2019 to 2025 CAGR:	11.9%	2025 Value Projection:	25 Billion (USD)
Pages:	140	Tables, Charts & Figures:	76
Geographies covered (19):	U.S., Canada, Germany, UK, France, Spain, Italy, Russia, Japan, China, India, Australia, South Korea, Brazil, Argentina, Mexico, South Africa, Saudi Arabia, UAE		
Segments covered:	Test Type, Application and Region		
Companies covered (27):	andMe, Abbott Molecular, Bayer Diagnostics, Biocartis, Biobelix, BioMerieux, BGI, Cella Genomics, Cepheid, Counsyl, deCODEme, Genentech, GenomicsPro, Genomic Health, HTG Molecular Diagnostics, IntegriGen, LabCorp Diagnostics, Luminex, MolecularMD, Myriad, Natera, PacBio, Pathway Genomics, Qiagen, Roche Diagnostics, Sequenom, Siemens		
Growth Drivers:	<ul style="list-style-type: none"> <li>• Growing application of genetic testing in oncology and genetic diseases in North America</li> <li>• Technological advancement and availability of new tests</li> <li>• Consumer interest in personalized medicine in Europe</li> <li>• Physician adoption of genetic tests into clinical care</li> <li>• Growing demand for direct-to-consumer genetic testing</li> </ul>		
Pitfalls & Challenges:	<ul style="list-style-type: none"> <li>• High cost of genetic testing</li> <li>• Dearth of experienced professionals in developing and underdeveloped countries</li> </ul>		

## Genetic Testing Market Report Coverage

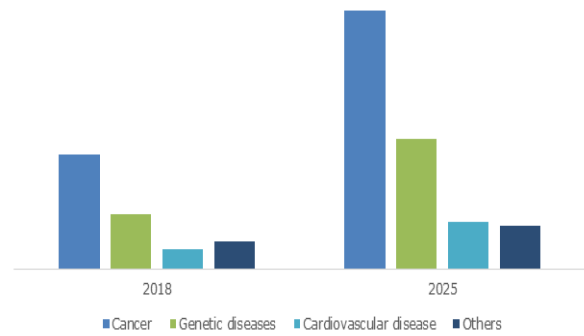
Australia Genetic Testing Market Size, By Application, 2018 (USD Million)



Genetic disease segment was accounted for around USD 3 billion in 2018 and it is expected to witness robust growth in forthcoming future. Genetic diseases occur due to various factors such as teratogen exposure, inherited and spontaneous mutation, etc. These diseases can be diagnosed through chromosomal, molecular and biochemical gene tests that will assist people in determining the risk of getting genetic diseases. Wide applications of genetic testing in diagnosing detailed family history and possibilities of certain disorders will prove beneficial for segment growth.

Cardiovascular disease segment is anticipated to witness around 13% growth over the forecast period. Substantial growth can be attributed to growing number of patients suffering from cardiovascular diseases. Genetic testing enables to do parallel analysis of numerous genes that contribute to cardiovascular diseases such as cardiomyopathies, arrhythmias and aortopathies. Industry players are developing advanced technologies that allow detection of several genes. For instance, Illumina have developed TruSight Cardio Sequencing Kit that offer an extensive coverage of 174 genes.

The global genetic testing market is expected to register substantial growth in the near future due to rise in incidence of genetic disorders & cancer and growth in awareness & acceptance of personalized medicines. In addition, advancements in genetic testing techniques and increasing application of genetic testing in oncology are expected to boost the market growth during the forecast period. However, standardization concerns of genetic testing-based diagnostics and stringent regulatory requirements for product approvals are anticipated to hamper the genetic testing market growth during the forecast period. Conversely, untapped emerging markets in developing countries are expected to provide remunerative opportunities for the market players. Therefore, these factors are anticipated to boost the global genetic testing market share.



The animal genetics market is segmented into type and region. By type, the market is bifurcated into animal genetics products (live animals and genetic materials) and animal testing services (DNA typing, genetic trait tests, genetic disease tests, and others). Based on live animals, the market is further divided into poultry, porcine, bovine, canine, and others (goat, sheep, and horse). The genetic materials are categorized into semen and embryo. The semen is further categorized into bovine, porcine, canine, equine, and others (goat and sheep). By embryo the market is subdivided into bovine, equine, and others (goat, porcine, and sheep). By geography, it is analysed across North America, Europe, Asia- Pacific, and LAMEA.