

Reproductive Genetics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented by Component (Laboratory Developed Tests, Kits & Assays, Reagents & Consumables), By Technology (Next Generation Sequencing, Polymerase Chain Reaction, In Situ Hybridization, Microarrays), By Procedure Type (Carrier Screening, Prenatal Screening, Preimplantation Genetic Testing, Infertility Genetic Testing), By Application (Aneuploidy, Single Gene Disorder, Structural Chromosomal Abnormality, Others), By Region and Competition

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Abstracts

The global reproductive genetics market is anticipated to witness impressive growth during the forecast period. This can be ascribed to the growing awareness of genetic engineering in developing countries to get better. Additionally, growing reimbursement improvements for medical tests and initiatives, running parallel to multiple investments by government organizations for developing new diagnostic centers, have significantly increased the demand for reproductive genetics across different parts of the globe. Additionally, significant growth in advanced testing, along with increasing awareness among different age groups of women for a leading safe life, is further expected to increase the demand for reproductive genetics, thereby fuelling the market growth through 2027. Furthermore, increasing focus on family planning, favorable regulations by the government, and advancements in different testing are further expected to

increase the demand for reproductive genetics, thereby supporting market growth. Similarly, advancement in genomic technologies and implementation of this technology in clinical medicine will enhance the usage in genetic disorder testing, carrier screening, and identification of infertility which will further boost the growth of the market during the forecast period.

Increasing demand for Genetic Testing

Increasing demand for genetic testing of embryos, either during pregnancy or of those created through IVF to check for possible genetic disorders, is driving the growth of the reproductive genetics market. Increasing genetic testing for embryos through IVF technology and several developments in genetic testing are making it possible to test for genetic disorders in artificial reproduction, which is driving the market growth during the forecast period. Reproductive genetics help to identify embryo defects so that parents can adopt alternative procedures like IVF, thus increasing the healthy pregnancy and baby regardless of patient health, which will further boost the market during the forecast period. According to Statista, as of 2019, the leading state by the number of legal abortions in the United States was New York, which reported over 78 thousand abortions that year. Florida also reported over 71 thousand abortions, followed by Texas with over 57 thousand. There was a total of 630,000 legal abortions in the United States in 2019.

Growing Advancement in Genomic Technologies

Increasing advancement in genomic technologies and further implementation of these technologies in clinical medicine have enhanced their usage in the diagnosis of genetic disorders, carrier screening, and identification of the cause of infertility, propelling the market growth in the forecast period. Some tests are much more expensive, which helps couples from going ahead with the tests. However, with the decline in the cost of sequencing and the surge in the mixed-ethnicity population, an increasing number of couples/individuals are expected to opt for the new procedure, which is expected to drive the market growth during the forecast period. Birth defects affect one in every 33 babies (about 3% of all babies) born in the United States each year.

Market Segmentation

The global reproductive genetics market can be segmented by component, technology, procedure type, application, and by region. Based on components, the market can be segmented into Laboratory Developed Tests, Kits & Assays, and Reagents &

Consumables. Based on technology, the market can be segmented into Next Generation Sequencing, Polymerase Chain Reaction, In Situ Hybridization, and Microarrays. Based on procedure type, the market can be differentiated into Carrier Screening, Prenatal Screening, Preimplantation Genetic Testing, and Infertility Genetic Testing. Based on application, the market can be grouped into Aneuploidy, Single Gene Disorder, Structural Chromosomal Abnormality, and Others. Regionally, North America dominated the market among Asia Pacific, Europe, Middle East & Africa, and South America. Among the different countries, the United States dominated the global reproductive genetics market on account of the increasing demand for genetic testing to identify genetic abnormalities in the country.

Recent Development

In May 2021, Juno Diagnostics, Which is a company focusing on enhancing access to genetic health information, announced the closing of a Series A financing round for USD 25 million led by Perceptive Xontogeny Venture (PXV) Fund. The fund will support product development, clinical validation studies, and the commercial launch of JunoDx's product offerings for non-invasive prenatal testing.

In March 2020, Agilent Technologies announced the launch of three new microarrays for prenatal and postnatal research. The microarray includes updated clinically relevant content from respected databases. Progression of next-generation sequencing is uncovering new gene-disease associations, and databases are rapidly evolving to include these discoveries.

Market Players

CooperSurgical, Inc., Centogene AG, Invitae Corporation, Illumina, Inc., Myriad Genetics, Inc., Thermo Fisher Scientific Inc., Laboratory Corporation of America Holdings, Quest Diagnostics, Natera, Inc, Eurofins Scientific SE are some of the leading players operating in the Global Reproductive Genetics Market.

Report Scope:

In this report, global reproductive genetics market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Reproductive Genetics Market, By Component:

Laboratory-Developed Tests

Kits & Assays

Reagents & Consumables

Reproductive Genetics Market, By Technology:

Next-Generation Sequencing

Polymerase Chain Reaction

In Situ Hybridization, Microarrays

Reproductive Genetics Market, By Procedure Type:

Carrier Screening

Prenatal Screening

Preimplantation Genetic Testing

Infertility Genetic Testing

Reproductive Genetics Market, By Application:

Aneuploidy

Single Gene Disorder

Structural Chromosomal Abnormality

Others

Reproductive Genetics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

Germany

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Reproductive Genetics Market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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