

# Global Reproductive Genetics Market Size Study & Forecast, By Type (Carrier Screening, Pre-Natal Screening, Pre-Implantation Genetic Testing, Infertility Genetic Testing) By Application (Hospital, Research Institute, Others) and Regional Analysis, 2023-2030

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## Abstracts

Global Reproductive Genetics Market is valued at approximately USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xx% over the forecast period 2023-2030. Reproductive Genetics is a branch of genetics focused on understanding the genetic factors that influence reproductive health, fertility, and the inheritance of genetic traits and disorders across generations. It encompasses the study of genetic variations that affect human reproduction, including chromosomal abnormalities, inherited genetic diseases, and traits related to fertility and infertility. The Reproductive Genetics market is expanding because of factors such as rising cases of genetic disorders and a growing healthcare expenditure. As a result, the demand for Reproductive Genetics has progressively increased in the international market during the forecast period 2023-2030.

Advancement of reproductive technologies, such as in vitro fertilization (IVF) and preimplantation genetic testing (PGT), provides opportunities to mitigate the risk of transmitting genetic disorders to future generations. Prospective parents increasingly opt for genetic screening of embryos created through IVF to select those free from specific genetic abnormalities before implantation. Additionally, prenatal genetic testing during pregnancy enables early detection of chromosomal abnormalities and genetic conditions, empowering parents to make informed choices about pregnancy management and potential interventions. According to the U.S. Department of Health and Human Services, Sickle cell disease is the most common inherited blood disorder in the United States, affecting an estimated 100,000 Americans. The disease is

estimated to occur in 1 in 500 African Americans and 1 in 1,000 to 1,400 Hispanic Americans. Furthermore, about 1 in 13 Black or African-American babies is born with sickle cell trait. Individuals and couples with a family history of genetic disorders are more likely to seek reproductive genetic counseling and testing to understand their risks and explore options for family planning. This includes carrier screening to identify individuals who carry genetic mutations that could be passed on to their offspring. Another important factor that drives the Reproductive Genetics market is the increasing healthcare expenditure. Healthcare spending can facilitate the integration of reproductive genetics services into routine clinical practice across various healthcare settings, including hospitals, fertility clinics, and primary care facilities. This integration ensures that genetic testing is more readily available and recommended as part of standard care. Moreover, growing research spending based on genetic next-generation technologies and a surge in demand for genetic testing is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, the high development cost of reproductive genetics and the lack of skilled professionals is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Reproductive Genetics Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing number of genetic counseling programs in the region. Genetic counseling programs often collaborate with healthcare providers and fertility clinics, facilitating seamless integration of genetic testing into reproductive healthcare services. The Accreditation Council for Genetic Counseling (ACGC) accredits genetic counseling training programs. As of May 2021, there are 55 accredited training programs in the U.S. and Canada. It is expected that an expansion of training programs will further increase this number to over 10,000 by 2030. The region's dominant performance is anticipated to propel the overall demand for Reproductive Genetics. Genetic counseling programs help individuals and couples understand their risk factors for genetic disorders, chromosomal abnormalities, and inherited diseases, thereby encouraging proactive engagement with reproductive genetic testing services. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as the growing awareness regarding reproductive genetic testing in the region. Rising awareness about reproductive genetic testing spreads, more individuals and couples become informed about the potential benefits of these tests in identifying genetic risks and making informed reproductive decisions.

Major market players included in this report are:

Agilent Technologies, Inc.

BGI Group

CENTOGENE AG

Fulgent Genetics, Inc.

F. Hoffmann-La Roche Ltd.

PerkinElmer, Inc.

Myriad Genetics, Inc.

Quest Diagnostics Incorporated

QIAGEN N.V.

Thermo Fisher Scientific Inc.

Recent Developments in the Market:

In February 2023, Agilent Technologies Inc. announced that its xCELLigence RTCA HT (real-time cell analysis high-throughput) platform is now compatible with the BioTek BioSpa 8 Automated Incubator. This combination, developed in response to market demands, enables a higher level of workflow automation, providing functionality for the development of label-free high-throughput potency assays for immuno-oncology and high-throughput viral cytopathic effects (CPE) assays for the vaccine market.

Global Reproductive Genetics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type

Carrier Screening

Pre-Natal Screening

Pre-Implantation Genetic Testing

Infertility Genetic Testing

By Application

Hospital

Research Institute

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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