

Genetic Analyzer Market, 2012-2023

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Abstracts

Global Genetic Analyzer Market

Genetic analysis is a method of learning and research in genetics and molecular biology fields that involves use of wide group of applications while basic system of the analysis is usually pertained to the orthodox genetics. Customary forms of analysis of genetic includes the gene identification and inherited diseases analysis. Genetic analysis also implicit the patients physical observation and the microscopic evaluation of genetics as it is conducted for the long time. Genetic analysis is also applied in differential diagnosis during the analysis of specific diseases, in mutation detection, copy number changes in DNA.

Factors like advancements in the technologies of genetic testing, rise in prevalence of the genetic diseases, growing in the awareness are boosting the genetic analyser market globally. Furthermore, initiatives taken by the governments and increase in R&D investment and activities in the genetic field are also driving the genetic analyzer market. However, due to certain factors genetic analyzers use is restricted. The operability of such kind of automated advanced machines requires technical expertise leaving little room for human error. Calibration is essentially needed for genetic analyzers. High cost of genetic analyzers resulting in their availability in a limited number of research organizations is also hampering the growth of the genetic analyzers market globally.

Global genetic analyzer market is segmented on the basis of instruments, consumables, application, end-user and geographical regions.

Based on product type, global genetic analyzer market is segmented as:

Instruments

DNA Microarrays

PCR

Next Generation Sequencing

Serial Analysis of Gene Expression

Northern Blotting

Consumables

DNA Chips

Reagents

Based on the end-user, global genetic analyzer market is segmented as:

Diagnostics Centres

Drug Discovery

Research and Development

Others

Increase in the clinical genome sequencing, increase in incidence of neurodegeneration diseases such as Alzheimer's, Huntington's and Parkinson's disease and also cases of cancers prompts the interest in genetic analysis. High swift in the acceptance of pediatric genetic testing used for of screening adult onset disorders are the factors contributing to the genetic analyzer market growth. Some of the government initiatives are improving the healthcare delivery to different sections of population, mergers, acquisitions and product launches of the companies are the factors driving the growth of the genetic analyzer market.

Geographically, genetic analyzer market is divided into Europe, Asia-Pacific North

America, Latin America, and Middle East and Africa. Global genetic analyser market is dominated by North America due to the rise in diseases prevalence by genetic disorders and rise in advancements technologically in the region. Asia-Pacific, is expected to show significant growth during the forecast period in the genetic testing market. India, China and Japan are expected as the fastest growing genetic testing markets in the Asia-Pacific region due to increase in R&D investment, a large pool of patients and rising government funding.

Some of the major companies dealing in genetic testing market are Thermo Fisher Scientific Inc. (U.S.), BioRad Laboratories (U.S.), Abbott laboratories (U.S.), AutoGenomics Inc.(U.S.), Celera Group (U.S.), PerkinElmer Inc.(U.S.), Quest Diagnostics Inc.(U.S.), ELITech Group (U.S.), Applied Biosystems Inc.(U.S.), F. Hoffmann-La Roche AG (Switzerland), Transgenomic Inc.(U.S.).

In May 2017, Thermo Fisher Scientific launched its Applied Biosystems SeqStudio Genetic Analyzer, a new capillary electrophoresis system which can be used for plasmid sequencing, species identification, human cell authentication and research in oncology

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL GENETIC ANALYZER MARKET INTRODUCTION

2.1. Global Genetic Analyzer Market – Taxonomy

2.2. Global Genetic Analyzer Market –Definitions

2.2.1. Product Type

2.2.2. End-User

3. GLOBAL GENETIC ANALYZER MARKET DYNAMICS

3.1. Drivers

3.2. Restraints

3.3. Opportunities/Unmet Needs of the Market

3.4. Trends

3.5. Global Genetic Analyzer Market Dynamics – Factors Impact Analysis

3.6. Global Genetic Analyzer Market – Regulations

3.6.1. U.S.

3.6.2. Europe

3.6.3. Japan

4. GLOBAL GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 – 2023

4.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

4.2. Year-over-Year (Y-o-Y) Growth Analysis (%)

4.3. Market Opportunity Analysis

5. GLOBAL GENETIC ANALYZER MARKET, BY PRODUCT TYPE, 2012 - 2016 AND FORECAST, 2017 - 2023

5.1. Instruments

5.1.1. DNA Microarrays

5.1.1.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.1.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.1.1.3. Market Opportunity Analysis

5.1.2. PCR

5.1.2.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.1.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.1.2.3. Market Opportunity Analysis

5.1.3. Next Generation Sequencing

5.1.3.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.1.3.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.1.3.3. Market Opportunity Analysis

5.1.4. Serial Analysis of Gene Expression

5.1.4.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.1.4.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.1.4.3. Market Opportunity Analysis

5.1.5. Northern Blotting

5.1.5.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.1.5.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.1.5.3. Market Opportunity Analysis

5.2. Consumables

5.2.1. DNA Chips

5.2.1.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.2.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.2.1.3. Market Opportunity Analysis

5.2.2. Reagents

5.2.2.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)

5.2.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)

5.2.2.3. Market Opportunity Analysis

6. GLOBAL GENETIC ANALYZER MARKET FORECAST, BY END-USER, 2012 - 2016 AND FORECAST, 2017 - 2023

6.1. Hospital Pharmacies

6.2. Diagnostics Centres

6.3. Drug Discovery

6.4. Research and Development

6.5. Others

- 6.5.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 6.5.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 6.5.3. Market Opportunity Analysis

7. GLOBAL GENETIC ANALYZER MARKET FORECAST, BY REGION, 2012 - 2016 AND FORECAST, 2017 - 2023

7.1. North America

- 7.1.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 7.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.1.3. Market Opportunity Analysis

7.2. Europe

- 7.2.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 7.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.2.3. Market Opportunity Analysis

7.3. Asia-Pacific

- 7.3.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 7.3.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.3.3. Market Opportunity Analysis

7.4. Latin America

- 7.4.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 7.4.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.4.3. Market Opportunity Analysis

7.5. Middle East and Africa

- 7.5.1. Market Analysis, 2012 – 2016 and Forecast, 2017 – 2023 (Revenue, USD Mn)
- 7.5.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.5.3. Market Opportunity Analysis

7.6. Global Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Region, 2017 – 2023

8. NORTH AMERICA GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

8.1. Product Type Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)

- 8.1.1. Instruments
 - 8.1.1.1. DNA Microarrays
 - 8.1.1.2. PCR

- 8.1.1.3. Next Generation Sequencing
- 8.1.1.4. Serial Analysis of Gene Expression
- 8.1.1.5. Northern Blotting
- 8.1.2. Consumables
 - 8.1.2.1. DNA Chips
 - 8.1.2.2. Reagents
- 8.2. End-User Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
 - 8.2.1. Diagnostics Centres
 - 8.2.2. Drug Discovery
 - 8.2.3. Research and Development
 - 8.2.4. Others
- 8.3. Country Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn) Y-o-Y Growth (%) and Market Share (%)
 - 8.3.1. U.S.
 - 8.3.2. Canada
- 8.4. North America Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Country, 2017 – 2023
- 8.5. North America Genetic Analyzer Market Dynamics – Trends

9. EUROPE GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 9.1. Product Type Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
 - 9.1.1. Instruments
 - 9.1.1.1. DNA Microarrays
 - 9.1.1.2. PCR
 - 9.1.1.3. Next Generation Sequencing
 - 9.1.1.4. Serial Analysis of Gene Expression
 - 9.1.1.5. Northern Blotting
 - 9.1.2. Consumables
 - 9.1.2.1. DNA Chips
 - 9.1.2.2. Reagents
- 9.2. End-User Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
 - 9.2.1. Diagnostics Centres
 - 9.2.2. Drug Discovery
 - 9.2.3. Research and Development

9.2.4. Others

9.3. Country Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)

9.3.1. Germany

9.3.2. UK

9.3.3. France

9.3.4. Spain

9.3.5. Italy

9.3.6. Russia

9.3.7. Poland

9.3.8. Rest of Europe

9.4. Europe Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Country, 2017 – 2023

9.5. Europe Genetic Analyzer Market Dynamics – Trends

10. ASIA-PACIFIC GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

10.1. Product Type Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)

10.1.1. Instruments

10.1.1.1. DNA Microarrays

10.1.1.2. PCR

10.1.1.3. Next Generation Sequencing

10.1.1.4. Serial Analysis of Gene Expression

10.1.1.5. Northern Blotting

10.1.2. Consumables

10.1.2.1. DNA Chips

10.1.2.2. Reagents

10.2. End-User Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)

10.2.1. Diagnostics Centres

10.2.2. Drug Discovery

10.2.3. Research and Development

10.2.4. Others

10.3. Country Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn),

Y-o-Y Growth (%), and Market Share (%)

10.3.1. Japan

10.3.2. China

10.3.3. India

10.3.4. ASEAN

10.3.5. Australia & New Zealand

10.3.6. Rest of Asia-Pacific

10.4. Asia-Pacific Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Country, 2017 – 2023

10.5. Asia-Pacific Genetic Analyzer Market Dynamics – Trends

11. LATIN AMERICA GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

11.1. Product Type Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)

11.1.1. Instruments

11.1.1.1. DNA Microarrays

11.1.1.2. PCR

11.1.1.3. Next Generation Sequencing

11.1.1.4. Serial Analysis of Gene Expression

11.1.1.5. Northern Blotting

11.1.2. Consumables

11.1.2.1. DNA Chips

11.1.2.2. Reagents

11.2. End-User Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)

11.2.1. Diagnostics Centres

11.2.2. Drug Discovery

11.2.3. Research and Development

11.2.4. Others

11.3. Country Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)

11.3.1. Brazil

11.3.2. Mexico

11.3.3. Argentina

11.3.4. Venezuela

11.3.5. Rest of Latin America

11.4. Latin America Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Country, 2017 – 2023

11.5. Latin America Genetic Analyzer Market Dynamics – Trends

12. MIDDLE EAST AND AFRICA GENETIC ANALYZER MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

12.1. Product Type Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)

12.1.1. Instruments

12.1.1.1. DNA Microarrays

12.1.1.2. PCR

12.1.1.3. Next Generation Sequencing

12.1.1.4. Serial Analysis of Gene Expression

12.1.1.5. Northern Blotting

12.1.2. Consumables

12.1.2.1. DNA Chips

12.1.2.2. Reagents

12.2. End-User Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)

12.2.1. Diagnostics Centres

12.2.2. Drug Discovery

12.2.3. Research and Development

12.2.4. Others

12.3. Country Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)

12.3.1. Gulf Cooperation Council (GCC) Countries

12.3.2. Israel

12.3.3. South Africa

12.3.4. Rest of MEA

12.4. MEA Genetic Analyzer Market - Opportunity Analysis Index, By Product Type, By End-User, and Country, 2017 – 2023

12.5. MEA Genetic Analyzer Market Dynamics – Trends

13. COMPETITION LANDSCAPE

13.1. Strategic Dashboard of Top Market Players

13.2. Company Profiles (Introduction, Financial Analysis, Product Type & Service Offerings, Key Developments, Strategies, and SWOT Analysis)

13.2.1. Thermo Fisher Scientific Inc. (U.S.)

13.2.2. BioRad Laboratories (U.S.)

13.2.3. Abbott Laboratories (U.S.)

- 13.2.4. AutoGenomics Inc. (U.S.)
- 13.2.5. Celera Group (U.S.)
- 13.2.6. PerkinElmer Inc. (U.S.)
- 13.2.7. Quest Diagnostics Inc. (U.S.)
- 13.2.8. ELITech Group (U.S.)
- 13.2.9. Applied Biosystems Inc. (U.S.)
- 13.2.10. F. Hoffmann-La Roche AG (Switzerland)
- 13.2.11. Transgenomic Inc.(U.S.)

14. RESEARCH METHODOLOGY

15. KEY ASSUMPTIONS AND ACRONYMS

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