

Functional Genomics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Kits & Assays, Instruments), By Technology (Next-Generation Sequencing (NGS), Polymerase Chain Reaction (PCR), Microarray, and Other Technologies), By Application (Epigenomics, Transcriptomics, Proteomics, and Metabolomics), By End User (Academic and Research Institutions, Biotechnology and Biopharmaceutical Companies, and Other End Users (Hospitals, Clinics, and Diagnostic Labs)), By Region and Competition, 2019-2029F

https://marketpublishers.com/r/F8439A8D1D7EEN.html

Date: April 2024

Pages: 180

Price: US\$ 4,900.00 (Single User License)

ID: F8439A8D1D7EEN

Abstracts

Global Functional Genomics Market was valued at USD 9.54 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 9.25% through 2029. The Global Functional Genomics Market is experiencing robust growth as advancements in genetic research and personalized medicine drive increased demand. Functional genomics involves the systematic study of gene functions and interactions within an organism, providing valuable insights into the underlying mechanisms of diseases. This market's expansion is fueled by the rising prevalence of genetic disorders, cancer, and infectious diseases, prompting a surge in research and development activities. Key technologies such as CRISPR-Cas9, RNA interference, and next-generation sequencing play pivotal roles in functional genomics studies, facilitating precise gene editing and comprehensive analysis of gene expression patterns.



Pharmaceutical and biotechnology companies are major contributors to this market, investing in innovative technologies to discover novel drug targets and develop personalized therapeutic interventions. Moreover, the integration of artificial intelligence and big data analytics further enhances the efficiency of functional genomics research. With a growing emphasis on precision medicine, the Global Functional Genomics Market is poised for continued expansion, promising breakthroughs in understanding, diagnosing, and treating various genetic conditions. Genomics is a branch of molecular biology that focuses on the study of an organism's complete set of DNAs, including all of its genes and their functions. It involves analyzing the structure, function, and organization of genomes, which are the complete genetic material of an organism. In genomics, scientists use various techniques and technologies to sequence, assemble, and analyze the entire DNA sequence of an organism. This includes determining the order of nucleotides (adenine, thymine, cytosine, and guanine) that make up the DNA molecule. By studying the genome, researchers aim to understand the genetic information encoded within an organism. The functional genomics aims to understand the function and activity of genes and their interactions within biological systems. It involves studying gene expression, protein function, and the regulatory networks that control gene activity. Functional genomics leverages advances in genetic sequencing and analysis to generate functional stories, characters, and worlds based on individuals' genetic data. By examining an individual's genetic code, various algorithms and machine learning techniques are employed to identify specific genetic traits, predispositions, and characteristics. This information is then used to craft personalized narratives or functional scenarios that are unique to everyone.

Key Market Drivers

Rising Demand for Technological Advancements

The rapid evolution of genomic sequencing technologies, notably next-generation sequencing (NGS), has revolutionized genomic analysis by enhancing speed, accuracy, and cost-effectiveness. These advancements have democratized functional genomics, catalyzing increased adoption and expansion of the global market. They have bolstered research capabilities, improved genomic analysis efficiency, and spurred the development of innovative tools and methodologies. Technologies such as microscopy, NGS platforms, and high-throughput screening have transformed genomic sequencing. NGS platforms offer heightened throughput, quicker turnaround times, enhanced precision, and reduced costs compared to conventional methods. This accessibility has enabled large-scale genomic sequencing, fostering broader acceptance of functional genomics research. These methods allow simultaneous analysis of numerous genetic



interactions or gene expression patterns, facilitating rapid gene or genomic feature identification relevant to specific biological processes, diseases, or drug responses. High-throughput screening expedites functional genomics research and aids in uncovering novel therapeutic targets. Moreover, recent technological strides in singlecell genomics have revolutionized comprehension of cellular heterogeneity and biological system complexity. Single-cell sequencing technologies facilitate individual cell genomic profiling, offering insights into cell types, developmental processes, disease mechanisms, and gene expression dynamics at a granular level. These advancements have expanded functional genomics' scope, opening new research avenues in developmental biology, immunology, and oncology. In cancer genomics, precision medicine benefits from molecularly defined cancer types and subtypes. This molecular taxonomy enables precise diagnosis and personalized treatment strategies. For example, breast cancer classification based on molecular characteristics—such as Luminal A, Luminal B, Triple-negative/basal-like, and HER2 type—guides treatment decisions tailored to each subtype's aggressiveness and therapy responsiveness. Similarly, genomic profiling subdivides diffuse large B cell lymphoma into ABC and GCB subtypes, aiding in tailoring chemotherapy and targeted therapies. Consequently, these advancements are poised to drive further growth in the functional genomics market.

Growing Awareness for Data Analytics and Bioinformatics

The growth of the global functional genomics market is expected to be propelled by the integration of big data analytics and bioinformatics. As functional genomics generates vast and intricate genomic data sets, these fields offer essential tools and methodologies for analyzing, interpreting, and deriving actionable insights from such data.

Functional genomics produces large-scale genomic datasets that necessitate efficient management and integration. Big data analytics and bioinformatics provide the requisite tools and infrastructure to handle and process these extensive data volumes. They facilitate the storage, retrieval, and integration of genomic data from various sources, enabling researchers to access and analyze diverse datasets for comprehensive functional genomics studies. For example, the successful completion of the Human Genome Project by the National Human Genome Research Institute (NHGRI) marked a significant scientific milestone. This effort unveiled the complete sequence of chemical bases—As, Cs, Gs, and Ts—in the human genome. The project revealed that each human cell contains a complete set of genetic instructions encoded in DNA, with most cells housing two copies of this genome, totaling approximately 6 billion DNA letters. Today, researchers face an unprecedented influx of genomic data aimed at



unraveling the genome's complexities and its implications for human health and disease. This wealth of data originates from diverse global populations, involving millions of individuals. To illustrate, a single human genome sequence generates data requiring 200 gigabytes of storage space, equivalent to roughly 200 copies of the film 'Jaws.' The anticipated accumulation of 40 exabytes to store worldwide genome sequence data is expected to drive the expansion of the global functional genomics market. Moreover, analyzing genomic data requires specialized computational tools to decipher biological insights within DNA and manage the resulting data volumes. Researchers utilize advanced software tools, such as aligners, to identify the precise locations of individual DNA segments within a reference genome sequence. The pursuit of genomic insights necessitates substantial financial support, with institutions like the NHGRI allocating over USD 125 million annually to various genomic data science initiatives. This ongoing investment is poised to propel the growth trajectory of the global functional genomics market.

Growing Interest in Data Visualization and Data Interpretation

The computational tool offers visualization techniques that empower researchers to explore and interpret genomic data effectively. These visualizations assist in recognizing patterns, trends, and relationships within the data, simplifying the communication and comprehension of intricate genomic information. By improving the comprehension of functional genomics data, visualization tools facilitate the dissemination of research findings to a broader audience. According to the National Institute of Health's National Center for Biotechnology Information, visualizing genomic data is a common practice in biomedical research. It aids in contextualizing knowledge within a genomic framework, streamlining communication, and facilitating dataset exploration for hypothesis generation. As biomedical research becomes increasingly data-driven and many studies lack well-defined hypotheses, a significant challenge lies in uncovering unexpected patterns and formulating unbiased questions amidst vast amounts of genomic and related data.

Moreover, visualization techniques assist in identifying potential biomarkers and molecular signatures associated with specific diseases or conditions. By visualizing genomic data, researchers can pinpoint gene expression patterns, genomic alterations, and regulatory networks characteristic of a particular disease phenotype. Visualization facilitates the discovery of potential diagnostic or prognostic biomarkers, driving the development of diagnostic tests and personalized treatment strategies. Often, this involves integrating various genomics data types, including genomics, transcriptomics, proteomics, and metabolomics. Integrated visualization aids in uncovering molecular



interactions, pathways, and functional relationships, offering a comprehensive understanding of complex biological systems and potentially contributing to the growth of the global functional genomics market.

Key Market Challenges

Data Privacy and Security

Data privacy and security represent critical concerns within the Global Functional Genomics Market due to the sensitive nature of genomic information. With advancements such as CRISPR-Cas9 and next-generation sequencing, substantial volumes of genomic data are generated, containing individual genetic codes and their variations. Safeguarding this information is essential to uphold public trust and adhere to ethical standards. Genomic data often includes personally identifiable information, posing significant risks if not adequately protected. One major challenge is establishing robust frameworks to prevent unauthorized access, breaches, or misuse of genomic data. Potential misuse raises concerns about discrimination, stigmatization, or unauthorized profiling based on genetic makeup. Balancing data sharing for research with individual privacy protection is a delicate task, particularly in cross-border genomics research requiring international collaboration. Establishing global standards for data privacy and security is imperative, alongside harmonizing regulations and ensuring adherence to ethical guidelines. Advancements in encryption technologies and secure data-sharing platforms are pivotal in addressing these concerns. Implementing strong access controls, encryption protocols, and anonymization techniques helps mitigate the risk of data breaches.

Furthermore, promoting awareness and education on data privacy and security within the scientific community is crucial for fostering responsible data handling practices. Collaboration among researchers, industry stakeholders, and policymakers is essential for formulating and implementing comprehensive data protection policies. Establishing transparent consent mechanisms to inform individuals about the use and sharing of their genomic data is vital for maintaining ethical standards. By confronting data privacy and security challenges proactively, the Global Functional Genomics Market can cultivate trust and credibility, facilitating ongoing innovation while respecting individual rights and privacy.

Complexity of Biological Systems

The Global Functional Genomics Market contends with the intricate complexity inherent



in biological systems, posing a significant challenge to researchers and scientists. Biological organisms operate within elaborate networks of genes, proteins, and molecular components, where understanding dynamic interactions is pivotal for meaningful insights. This complexity stems from multifaceted biological processes, encompassing gene regulation, signal transduction, and cellular responses to environmental stimuli. In functional genomics research, unraveling the complexities of biological systems is imperative for grasping the functions of individual genes and their roles in disease mechanisms. Interactions among genes, the impact of epigenetic modifications, and the dynamic nature of cellular processes contribute to the intricate puzzle researchers seek to solve. Furthermore, variability observed among individuals adds complexity, making generalization across diverse populations challenging. Technological advancements such as CRISPR-Cas9 and advanced sequencing methods have enhanced the ability to manipulate and analyze genes, yet interpreting resulting data comprehensively remains a challenge. The high-throughput nature of these technologies generates vast datasets, necessitating sophisticated bioinformatics tools for analysis and integration. Researchers must discern meaningful patterns amidst noise and comprehend the context-dependent nature of gene function within biological systems. Moreover, the interplay between genetic factors and environmental influences introduces another layer of complexity. Functional genomics research endeavors to elucidate how genetic variations interact with environmental factors to contribute to disease development. Addressing this complexity demands interdisciplinary collaboration, uniting molecular biologists, bioinformaticians, and systems biologists to integrate diverse datasets and perspectives. Despite these challenges, comprehending the complexity of biological systems is essential for advancing precision medicine and developing targeted therapies. As the Global Functional Genomics Market advances, tackling the intricacies of biological systems remains a focal point, driving innovation and expanding our understanding of genomics and its applications in healthcare and beyond.

Key Market Trends

Advancements in CRISPR Technology

Advancements in CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) technology have been pivotal in shaping the Global Functional Genomics Market. Specifically, CRISPR-Cas9 enables precise and efficient gene editing, empowering researchers to selectively modify or manipulate specific DNA sequences within the genome. This technology has become integral to functional genomics studies, facilitating the exploration of gene functions, regulatory pathways, and their implications



in various biological processes. One notable advancement is the expansion of CRISPRbased techniques beyond traditional gene knockout. Innovations like CRISPR interference (CRISPRi) and CRISPR activation (CRISPRa) enable researchers to modulate gene expression levels without permanently altering the DNA sequence. This diversified toolkit provides increased flexibility in studying gene functions and regulatory mechanisms. Moreover, improvements in CRISPR technology have enhanced precision and specificity, minimizing off-target effects and enhancing the overall safety and accuracy of gene editing. Innovations such as base editing and prime editing offer even finer control over genetic modifications, enabling the correction of single nucleotide changes without inducing double-strand breaks. In the Global Functional Genomics Market, the widespread adoption of CRISPR technology has expedited research in areas such as drug discovery, functional genomics screening, and therapeutic interventions. The ability to manipulate genes with precision has opened new avenues for comprehending the molecular underpinnings of diseases and identifying potential therapeutic targets. As CRISPR technology continues to advance, its applications in functional genomics are poised to catalyze further breakthroughs, shaping the future of genomic research and its diverse applications in medicine, agriculture, and beyond.

Integration of Omics Technologies

The Integration of Omics Technologies has emerged as a pivotal trend in the Global Functional Genomics Market, transforming the breadth and depth of genomic research. Omics technologies, including genomics, transcriptomics, proteomics, and metabolomics, enable comprehensive analysis of biological molecules. By integrating these multi-omics approaches, researchers gain a holistic understanding of gene functions, regulatory networks, and the intricate interactions among biological components within cellular systems. Genomics, exploring complete DNA sequences, is complemented by transcriptomics, which examines gene expression patterns. Proteomics delves into the entire set of proteins in a cell, while metabolomics analyzes small molecule metabolites. Integrating these datasets enables researchers to unveil complex relationships between genes, proteins, and metabolic pathways. This comprehensive perspective is crucial for deciphering disease mechanisms and identifying potential therapeutic targets. The integration of omics technologies is particularly valuable in functional genomics research, where scientists seek to elucidate gene functions and their roles in cellular processes. By merging genomic data with insights into gene expression, protein levels, and metabolite profiles, researchers can construct more holistic models of cellular functions and disease mechanisms. This trend promotes a systems biology approach, analyzing biological systems as a whole rather than individual components. Insights gleaned from integrated omics studies find



applications in personalized medicine, drug discovery, and targeted therapy development. As the Global Functional Genomics Market advances, the integration of omics technologies is expected to remain a driving force, fueling advancements that deepen our understanding of biological system complexity and pave the way for novel therapeutic strategies.

Segmental Insights

Product Insights

Based onproduct, kits assays segment dominated the Global Functional Genomics Market in 2023. This is ascribed due to its convenience, cost-effectiveness, and user-friendly nature. These ready-to-use kits and assays streamline complex laboratory processes, making functional genomics research accessible to a broader range of scientists. The pre-packaged nature of these products reduces the need for specialized expertise, accelerates experimental timelines, and ensures consistent results. Additionally, the market's growth is fueled by the increasing demand for high-throughput screening and the widespread adoption of functional genomics techniques in diverse research areas, including drug discovery, diagnostics, and personalized medicine.

Technology Insights

Based on technology, Next-Generation Sequencing (NGS) segment dominated the Global Functional Genomics Market in 2023. This is ascribed due to its unparalleled efficiency in rapidly and cost-effectively sequencing large volumes of genetic material. NGS enables simultaneous analysis of multiple genes, whole genomes, or entire transcriptomes, providing comprehensive insights into genetic variations and gene expression. Its high throughput, scalability, and ability to uncover complex genetic information make it indispensable in functional genomics research, personalized medicine, and clinical diagnostics. The continuous technological advancements, reduced sequencing costs, and diverse applications contribute to NGS maintaining its dominant position in the evolving landscape of genomic technologies.

Regional Insights

North America dominates the Global Functional Genomics Market due to a confluence of factors. The region has a robust research infrastructure, extensive funding for genomics research, and a high concentration of leading biotechnology and pharmaceutical companies. Additionally, supportive government initiatives, a skilled



workforce, and collaborations between academia and industry contribute to North America's leadership. Access to advanced technologies, such as CRISPR-Cas9, and a favorable regulatory environment further propel the region's dominance in functional genomics, making it a focal point for cutting-edge research and innovation in the field.

Key Market Players
Agilent Technologies, Inc.
Becton, Dickinson and Company
Bio-Rad Laboratories, Inc.
Danaher Corporation (Integrated DNA Technologies, Inc.)
F. Hoffmann-La Roche Ltd.
Illumina, Inc.
MRM Proteomics Inc
Perkin Elmer, Inc.
QIAGEN N.V.
Thermo Fisher Scientific, Inc.
Report Scope:
In this report, the Global Functional Genomics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
Functional Genomics Market,By Product:
oKits Assays
olnstruments



Functional Genomics Market, By Technology:		
oNext-Generation Sequencing (NGS)		
oPolymerase Chain Reaction (PCR)		
oMicroarray		
oOther Technologies		
Functional Genomics Market, By Application:		
oEpigenomics		
oTranscriptomics		
oProteomics		
oMetabolomics		
Functional Genomics Market,By End-User:		
oAcademic and Research Institutions		
oBiotechnology and Biopharmaceutical Companies		
oOthers		
-Functional Genomics Market, By Region:		
oNorth America		
United States		
Canada		
Mexico		



oEurope France United Kingdom Italy Germany Spain oAsia-Pacific China India Japan Australia South Korea oSouth America Brazil Argentina Colombia oMiddle East Africa South Africa



Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Functional Genomics Market.

Available Customizations:

Global Functional Genomics Market report 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).



Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation Validation
- 2.7. Assumptions and Limitations

3.EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4.VOICE OF CUSTOMER

5.GLOBAL FUNCTIONAL GENOMICS MARKET OUTLOOK

- 5.1. Market Size Forecast
- 5.1.1. By Value
- 5.2. Market Share Forecast
 - 5.2.1. By Product (Kits Assays, Instruments)
- 5.2.2. By Technology (Next-Generation Sequencing (NGS), Polymerase Chain Reaction (PCR), Microarray, Other Technologies)
- 5.2.3. By Application (Epigenomics, Transcriptomics, Proteomics, Metabolomics)



- 5.2.4. By End User (Academic and Research Institutions, Biotechnology and Biopharmaceutical Companies, Other End Users (Hospitals, Clinics, and Diagnostic Labs)
- 5.2.5. By Region (North America, Europe, Asia Pacific, South America, Middle-East and Africa)
 - 5.2.6. By Company (2023)
- 5.3. Market Map
 - 5.3.1. By Product
 - 5.3.2. By Technology
 - 5.3.3. By Application
 - 5.3.4. By End User
 - 5.3.5. By Region

6.NORTH AMERICA FUNCTIONAL GENOMICS MARKET OUTLOOK

- 6.1. Market Size Forecast
 - 6.1.1. By Value
- 6.2. Market Share Forecast
 - 6.2.1. By Product
 - 6.2.2. By Technology
 - 6.2.3. By Application
 - 6.2.4. By End User
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Functional Genomics Market Outlook
 - 6.3.1.1.Market Size Forecast
 - 6.3.1.1.1.By Value
 - 6.3.1.2.Market Share Forecast
 - 6.3.1.2.1. By Product
 - 6.3.1.2.2. By Technology
 - 6.3.1.2.3. By Application
 - 6.3.1.2.4. By End User
 - 6.3.2. Canada Functional Genomics Market Outlook
 - 6.3.2.1.Market Size Forecast
 - 6.3.2.1.1.By Value
 - 6.3.2.2.Market Share Forecast
 - 6.3.2.2.1. By Product
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By Application



6.3.2.2.4. By End User

6.3.3. Mexico Functional Genomics Market Outlook

6.3.3.1.Market Size Forecast

- 6.3.3.1.1.By Value
- 6.3.3.2.Market Share Forecast
 - 6.3.3.2.1. By Product
- 6.3.3.2.2. By Technology
- 6.3.3.2.3. By Application
- 6.3.3.2.4. By End User

7.EUROPE FUNCTIONAL GENOMICS MARKET OUTLOOK

- 7.1. Market Size Forecast
 - 7.1.1. By Value
- 7.2. Market Share Forecast
 - 7.2.1. By Product
 - 7.2.2. By Technology
 - 7.2.3. By Application
 - 7.2.4. By End User
 - 7.2.5. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1.Germany Functional Genomics Market Outlook
 - 7.3.1.1.Market Size Forecast
 - 7.3.1.1.1.By Value
 - 7.3.1.2.Market Share Forecast
 - 7.3.1.2.1. By Product
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By Application
 - 7.3.1.2.4. By End User
 - 7.3.2. France Functional Genomics Market Outlook
 - 7.3.2.1.Market Size Forecast
 - 7.3.2.1.1.By Value
 - 7.3.2.2.Market Share Forecast
 - 7.3.2.2.1. By Product
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By Application
 - 7.3.2.2.4. By End User
 - 7.3.3. United Kingdom Functional Genomics Market Outlook
 - 7.3.3.1.Market Size Forecast



- 7.3.3.1.1.By Value
- 7.3.3.2.Market Share Forecast
 - 7.3.3.2.1. By Product
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By Application
- 7.3.3.2.4. By End User
- 7.3.4.Italy Functional Genomics Market Outlook
 - 7.3.4.1.Market Size Forecast
 - 7.3.4.1.1.By Value
 - 7.3.4.2.Market Share Forecast
 - 7.3.4.2.1. By Product
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By Application
 - 7.3.4.2.4. By End User
- 7.3.5. Spain Functional Genomics Market Outlook
 - 7.3.5.1.Market Size Forecast
 - 7.3.5.1.1.By Value
 - 7.3.5.2.Market Share Forecast
 - 7.3.5.2.1. By Product
 - 7.3.5.2.2. By Technology
 - 7.3.5.2.3. By Application
 - 7.3.5.2.4. By End User

8.ASIA-PACIFIC FUNCTIONAL GENOMICS MARKET OUTLOOK

- 8.1. Market Size Forecast
 - 8.1.1. By Value
- 8.2. Market Share Forecast
 - 8.2.1. By Product
 - 8.2.2. By Technology
 - 8.2.3. By Application
 - 8.2.4. By End User
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Functional Genomics Market Outlook
 - 8.3.1.1.Market Size Forecast
 - 8.3.1.1.1.By Value
 - 8.3.1.2. Market Share Forecast
 - 8.3.1.2.1. By Product



- 8.3.1.2.2. By Technology
- 8.3.1.2.3. By Application
- 8.3.1.2.4. By End User
- 8.3.2. Japan Functional Genomics Market Outlook
 - 8.3.2.1.Market Size Forecast
 - 8.3.2.1.1.By Value
 - 8.3.2.2.Market Share Forecast
 - 8.3.2.2.1. By Product
 - 8.3.2.2.2. By Technology
 - 8.3.2.2.3. By Application
 - 8.3.2.2.4. By End User
- 8.3.3.India Functional Genomics Market Outlook
 - 8.3.3.1.Market Size Forecast
 - 8.3.3.1.1.By Value
 - 8.3.3.2.Market Share Forecast
 - 8.3.3.2.1. By Product
 - 8.3.3.2.2. By Technology
 - 8.3.3.2.3. By Application
 - 8.3.3.2.4. By End User
- 8.3.4. South Korea Functional Genomics Market Outlook
 - 8.3.4.1.Market Size Forecast
 - 8.3.4.1.1.By Value
 - 8.3.4.2.Market Share Forecast
 - 8.3.4.2.1. By Product
 - 8.3.4.2.2. By Technology
 - 8.3.4.2.3. By Application
 - 8.3.4.2.4. By End User
- 8.3.5. Australia Functional Genomics Market Outlook
 - 8.3.5.1.Market Size Forecast
 - 8.3.5.1.1.By Value
 - 8.3.5.2. Market Share Forecast
 - 8.3.5.2.1. By Product
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By Application
 - 8.3.5.2.4. By End User

9.SOUTH AMERICA FUNCTIONAL GENOMICS MARKET OUTLOOK

9.1. Market Size Forecast



- 9.1.1. By Value
- 9.2. Market Share Forecast
 - 9.2.1. By Product
 - 9.2.2. By Technology
 - 9.2.3. By Application
 - 9.2.4. By End User
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1.Brazil Functional Genomics Market Outlook
 - 9.3.1.1.Market Size Forecast
 - 9.3.1.1.1.By Value
 - 9.3.1.2.Market Share Forecast
 - 9.3.1.2.1. By Product
 - 9.3.1.2.2. By Technology
 - 9.3.1.2.3. By Application
 - 9.3.1.2.4. By End User
 - 9.3.2. Argentina Functional Genomics Market Outlook
 - 9.3.2.1.Market Size Forecast
 - 9.3.2.1.1.By Value
 - 9.3.2.2.Market Share Forecast
 - 9.3.2.2.1. By Product
 - 9.3.2.2.2. By Technology
 - 9.3.2.2.3. By Application
 - 9.3.2.2.4. By End User
 - 9.3.3.Colombia Functional Genomics Market Outlook
 - 9.3.3.1.Market Size Forecast
 - 9.3.3.1.1.By Value
 - 9.3.3.2.Market Share Forecast
 - 9.3.3.2.1. By Product
 - 9.3.3.2.2. By Technology
 - 9.3.3.2.3. By Application
 - 9.3.3.2.4. By End User

10.MIDDLE EAST AND AFRICA FUNCTIONAL GENOMICS MARKET OUTLOOK

- 10.1. Market Size Forecast
 - 10.1.1. By Value
- 10.2. Market Share Forecast
 - 10.2.1. By Product



10.2.2. By Technology

10.2.3. By Application

10.2.4. By End User

10.2.5. By Country

10.3.MEA: Country Analysis

10.3.1.UAE Functional Genomics Market Outlook

10.3.1.1.Market Size Forecast

10.3.1.1.1.By Value

10.3.1.2.Market Share Forecast

10.3.1.2.1. By Product

10.3.1.2.2. By Technology

10.3.1.2.3. By Application

10.3.1.2.4. By End User

10.3.2. Saudi Arabia Functional Genomics Market Outlook

10.3.2.1.Market Size Forecast

10.3.2.1.1.By Value

10.3.2.2.Market Share Forecast

10.3.2.2.1. By Product

10.3.2.2.2. By Technology

10.3.2.2.3. By Application

10.3.2.2.4. By End User

10.3.3. South Africa Functional Genomics Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1. By Product

10.3.3.2.2. By Technology

10.3.3.2.3. By Application

10.3.3.2.4. By End User

11.MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12.MARKET TRENDS DEVELOPMENTS

13.COMPETITIVE LANDSCAPE



- 13.1. Agilent Technologies, Inc.
 - 13.1.1. Business Overview
 - 13.1.2. Product Offerings
 - 13.1.3. Recent Developments
 - 13.1.4. Financials (In Case of Listed Companies)
 - 13.1.5. Key Personnel
- 13.2. Becton, Dickinson and Company
- 13.3. Bio-Rad Laboratories, Inc.
- 13.4. Danaher Corporation (Integrated DNA Technologies, Inc.)
- 13.5.F. Hoffmann-La Roche Ltd.
- 13.6.Illumina, Inc.
- 13.7. MRM Proteomics Inc
- 13.8. Perkin Elmer, Inc.
- 13.9. QIAGEN N.V.
- 13.10. Thermo Fisher Scientific, Inc.

14.STRATEGIC RECOMMENDATIONS

15. ABOUT US DISCLAIMER



I would like to order

Product name: Functional Genomics Market - Global Industry Size, Share, Trends, Opportunity, and

Forecast, Segmented By Product (Kits & Assays, Instruments), By Technology (Next-Generation Sequencing (NGS), Polymerase Chain Reaction (PCR), Microarray, and Other Technologies), By Application (Epigenomics, Transcriptomics, Proteomics, and Metabolomics), By End User (Academic and Research Institutions, Biotechnology and Biopharmaceutical Companies, and Other End Users (Hospitals, Clinics, and Diagnostic Labs)), By Region and Competition, 2019-2029F

Product link: https://marketpublishers.com/r/F8439A8D1D7EEN.html

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/F8439A8D1D7EEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature



Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$