

HLA Typing Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Technique (Molecular Assay, Sequenced-based Molecular Assay, Non-Molecular Assay), By Application (Diagnosis, Research), By Product (Instruments, Reagents & Consumables, Software & Services), By End User (Commercial Service Providers, Hospitals and Transplant Centers, Research Labs & Academic Institutes), By Region and Competition, 2019-2029F

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Abstracts

Global HLA Typing Market was valued at USD 1.04 Billion in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 6.85% through 2029. Human Leukocyte Antigen (HLA) typing has emerged as a crucial component. This intricate process plays a pivotal role in organ transplantation, disease susceptibility identification, and immune system analysis. The Global HLA Typing Market, driven by numerous factors, is witnessing remarkable growth. In this article, we delve into the three primary drivers propelling the expansion of this market.

Key Market Drivers

Technological Advancements

The evolution of HLA typing techniques has been monumental. Traditional methods were time-consuming and often lacked accuracy. However, the advent of advanced

technologies, such as next-generation sequencing (NGS), polymerase chain reaction (PCR), and hybridization, has revolutionized HLA typing. These techniques offer rapid results with higher precision, enabling healthcare professionals to make more informed decisions regarding organ transplantation compatibility and disease diagnostics.

Increase in Next-Generation Sequencing (NGS)

NGS technology has emerged as a game-changer in the HLA typing landscape. Its ability to sequence multiple genes simultaneously at unparalleled speeds has significantly reduced turnaround times. This advancement not only expedites the transplantation process but also aids in identifying potential genetic factors linked to various diseases.

Polymerase Chain Reaction (PCR)

PCR technology plays a vital role in HLA typing by amplifying specific DNA segments. This heightened accuracy in identifying HLA alleles has led to more successful organ transplants, reducing the risk of rejection. Moreover, PCR's versatility has paved the way for its integration with other techniques, enhancing overall efficiency.

Rising Demand for Organ Transplants

The escalating demand for organ transplants, coupled with a limited supply of compatible organs, has intensified the need for accurate HLA typing. As the global population grows and medical treatments advance, the demand for organs such as hearts, lungs, and kidneys continues to outpace supply. This supply-demand gap has thrust HLA typing into the spotlight as a critical determinant of transplant success.

Personalized Medicine

The concept of personalized medicine has gained prominence, and HLA typing aligns perfectly with its principles. By precisely matching donor organs with recipients based on their HLA profiles, the likelihood of organ acceptance improves significantly. This not only enhances patient outcomes but also minimizes post-transplant complications.

Addressing Unmet Needs

The demand for HLA typing isn't confined to developed nations. Emerging

economies are experiencing a surge in healthcare infrastructure development, resulting in increased access to transplantation procedures. However, this expansion necessitates the availability of efficient HLA typing technologies, thereby driving the growth of the market on a global scale.

Unravelling HLA's Role in Diseases

HLA molecules play a pivotal role in immune responses and disease susceptibility. As medical researchers delve deeper into the intricacies of the human immune system, the connection between HLA alleles and diseases has become more evident. This linkage has led to heightened research efforts in understanding how specific HLA alleles influence disease vulnerability.

Decoding Genetic Predisposition, Autoimmune diseases, characterized by the body attacking its own cells, have long intrigued the medical community. Recent research has uncovered strong correlations between certain HLA alleles and autoimmune diseases like rheumatoid arthritis, multiple sclerosis, and type 1 diabetes. This newfound knowledge opens doors for targeted therapies and early disease prediction.

Identifying Susceptibility Factors

Infectious diseases have a complex interplay with HLA alleles. Researchers have identified that specific HLA profiles can either enhance or diminish an individual's susceptibility to infections such as HIV, tuberculosis, and hepatitis. This revelation not only aids in understanding disease progression but also assists in developing more effective preventive measures.

Key Market Challenges

Complexity and Cost of HLA Typing Procedures

HLA typing procedures are often complex and require specialized equipment and expertise, leading to high costs for both healthcare providers and patients. The complexity of HLA typing assays, which involve analyzing genetic variations in the human leukocyte antigen (HLA) system, can result in lengthy turnaround times and increased expenses. Additionally, the need for trained personnel and sophisticated laboratory infrastructure further adds to the overall cost of HLA typing. These high costs may deter healthcare facilities from investing in HLA typing services, particularly in resource-constrained settings or regions with limited healthcare budgets.

Challenges in Standardization and Interpretation of Results

Standardizing HLA typing procedures across different laboratories and platforms presents a significant challenge in the Global HLA Typing Market. Variability in methodologies, reagents, and interpretation of results can lead to inconsistencies in HLA typing outcomes, affecting the reliability and reproducibility of results. This lack of standardization not only hampers inter-laboratory comparability but also complicates the selection of compatible donors for organ and stem cell transplantation. Moreover, the interpretation of HLA typing results requires specialized knowledge and expertise, posing challenges for clinicians and transplant coordinators in accurately assessing donor-recipient compatibility.

Limited Donor Registry and Diversity

The success of organ and stem cell transplantation relies on the availability of compatible donors with matching HLA profiles. However, there is often a shortage of donors registered in HLA typing databases, particularly among underrepresented populations and ethnic minorities. This limited donor pool and lack of diversity in HLA profiles pose challenges for finding suitable matches, especially for individuals with rare or uncommon HLA alleles. The disparity between donor availability and patient demand further exacerbates the challenges associated with organ and stem cell transplantation, leading to prolonged waiting times and increased risks for patients awaiting transplant procedures. Addressing these challenges requires concerted efforts to expand donor registries, enhance diversity in HLA typing databases, and promote awareness about the importance of organ and stem cell donation among diverse communities.

Key Market Trends

Integration of Next-Generation Sequencing (NGS)

The integration of Next-Generation Sequencing (NGS) technology has revolutionized the field of HLA typing. NGS offers unparalleled accuracy and efficiency by enabling the simultaneous sequencing of multiple genes. This advancement not only expedites the HLA typing process but also provides high-resolution data crucial for accurate donor-recipient matching in organ transplantation.

High-Resolution HLA Typing

NGS enables high-resolution HLA typing, allowing healthcare professionals to discern subtle genetic variations in HLA genes. This level of precision enhances the compatibility assessment between organ donors and recipients, significantly reducing the risk of graft rejection. As the demand for successful organ transplants continues to rise, NGS-equipped laboratories are becoming indispensable for delivering reliable and accurate results.

Rapid Turnaround Times

Traditional HLA typing methods often involved prolonged turnaround times, delaying critical clinical decisions. NGS has transformed this landscape by offering rapid results without compromising accuracy. The ability to obtain comprehensive HLA profiles quickly empowers healthcare providers to make informed decisions about organ transplantation, disease diagnostics, and treatment strategies.

Growing Focus on Personalized Medicine

The concept of personalized medicine has gained significant traction in recent years, and HLA typing is at the forefront of this paradigm shift. By deciphering an individual's unique HLA profile, healthcare professionals can tailor treatments to specific genetic predispositions, optimizing therapeutic outcomes and minimizing adverse reactions.

Customized Organ Transplants

Personalized medicine is revolutionizing organ transplantation by enabling customized donor-recipient matches based on HLA compatibility. The ability to identify the most compatible organ donors for each recipient reduces the risk of graft failure and rejection. This approach not only enhances transplant success rates but also extends graft survival, leading to improved patient quality of life.

Predictive Disease Susceptibility

HLA typing plays a crucial role in identifying genetic factors associated with disease susceptibility. Personalized medicine leverages this information to predict an individual's predisposition to certain diseases. Early identification of genetic risk factors empowers healthcare providers to implement preventive strategies and tailor treatment plans, mitigating disease progression and improving patient outcomes.

Expansion of HLA Typing in Drug Development and Research

While HLA typing's historical association with organ transplantation remains strong, its applications have expanded beyond transplantation into the realm of drug development and medical research. HLA typing is increasingly being recognized as a valuable tool in understanding drug interactions, immunogenicity, and vaccine development.

Drug Hypersensitivity and Toxicity

HLA alleles play a pivotal role in drug hypersensitivity reactions and adverse drug events. By identifying individuals at higher risk for such reactions through HLA typing, healthcare professionals can prescribe medications more judiciously and reduce the likelihood of adverse effects. This personalized approach to drug administration enhances patient safety and minimizes treatment-related complications.

Immunotherapy and Vaccines

Immunotherapy and vaccine development are areas that benefit from HLA typing's insights. The interaction between HLA molecules and immune responses influences the efficacy of immunotherapies and vaccines. Tailoring these treatments to an individual's HLA profile enhances their effectiveness and potentially reduces side effects, marking a significant stride towards personalized immunological interventions.

Segmental Insights

Technique Insights

Based on Technique, Molecular Assay have emerged as the fastest growing segment in the Global HLA Typing Market in 2023. Molecular assays, particularly next-generation sequencing (NGS) and polymerase chain reaction (PCR)-based techniques, have undergone significant technological advancements, enhancing the accuracy, speed, and cost-effectiveness of HLA typing and making them more appealing than traditional serological methods. The rise of personalized medicine has increased the demand for precise HLA typing, as molecular assays provide detailed genetic information crucial for matching donors and recipients in organ and bone marrow transplantation, thereby reducing the risk of rejection and improving patient outcomes. Additionally, molecular assays offer superior resolution and accuracy in identifying HLA alleles, essential for complex clinical decisions such as transplant matching and understanding disease

associations with specific HLA types. Ongoing investment in research and development by biotechnology companies has led to more efficient molecular assays, addressing the growing needs of the healthcare sector and enhancing the overall capabilities of HLA typing.

Application Insight

Based on Application, Diagnosis have emerged as the dominating segment in the Global HLA Typing Market in 2023. The application of HLA typing in diagnosis has revolutionized the field of medicine, enabling healthcare professionals to make informed decisions about disease management and treatment strategies. By deciphering an individual's HLA profile, diagnosis becomes more accurate and tailored to the patient's unique genetic makeup.

Regional Insights

Based on Region, North America have emerged as the dominating region in the Global HLA Typing Market in 2023. North America possesses a well-established healthcare infrastructure featuring cutting-edge medical facilities, advanced diagnostic technologies, and proficient healthcare professionals. This robust healthcare system facilitates the widespread adoption of HLA typing procedures across various healthcare settings, including hospitals, transplant centers, and research laboratories. The region serves as a focal point for biomedical research and technological innovation in HLA typing. Home to leading biotechnology firms, research institutions, and academic centers, North America consistently endeavors to develop and commercialize novel HLA typing technologies, assays, and software solutions. This dedication to innovation positions North America at the forefront of advancements in HLA typing methodologies and applications.

With a relatively high prevalence of chronic diseases, autoimmune disorders, and conditions necessitating organ and stem cell transplantation, North America experiences significant demand for HLA typing services. These services are crucial for assessing donor-recipient compatibility, selecting suitable transplant candidates, and monitoring transplant outcomes. The region's substantial patient population and active transplant activity underscore the importance of HLA typing in transplant management protocols. North America maintains stringent regulatory standards governing the quality and safety of medical devices, diagnostics, and laboratory testing procedures, including HLA typing assays. Compliance with regulatory requirements is imperative for the market entry and commercialization of HLA typing products in the region. Moreover,

favorable reimbursement policies for HLA typing services provided by healthcare payers further contribute to the market's sustained growth in North America.

Key Market Players

ThermoFisher Scientific Inc.

Bio-Rad Laboratories Inc.

Qiagen LLC

Omixon Inc.

GenDx Products Inc.

Illumina Inc.

TBG Diagnostics Limited

Becton, Dickinson and Company

Takara BioUSA, Inc.

F. Hoffman-La Roche Limited

Report Scope:

In this report, the Global HLA Typing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

HLA Typing Market, By Technique:

Molecular Assay

Sequenced-based Molecular Assay

Non-Molecular Assay

%II%HLA Typing Market, By Application:

%II%Diagnosis

%II%Research

%II%HLA Typing Market, By Product:

%II%Instruments

%II%Reagents & Consumables

%II%Software & Services

%II%HLA Typing Market, By End User:

%II%Commercial Service Providers

%II%Hospitals and Transplant Centers

%II%Research Labs & Academic Institutes

%II%HLA Typing Market, By Region:

%II%North America

%II%United States

%II%Canada

%II%Mexico

%II%Europe

%II%France

%II%United Kingdom

%II%Italy

%II%Germany

%II%Spain

%II%Asia Pacific

%II%China

%II%India

%II%Japan

%II%Australia

%II%South Korea

%II%South America

%II%Brazil

%II%Argentina

%II%Colombia

%II%Middle East & Africa

%II%South Africa

%II%Saudi Arabia

%II%UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global HLA Typing Market.

Available Customizations:

HLA Typing Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Technique (Mole...

Global HLA Typing Market report with the given market data, Tech Sci 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. IMPACT OF COVID-19 ON GLOBAL HLA TYPING MARKET

5. VOICE OF CUSTOMER

6. GLOBAL HLA TYPING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Technique (Molecular Assay, Sequenced-based Molecular Assay, Non-Molecular Assay)

- 6.2.2. By Application (Diagnosis, Research)
- 6.2.3. By Product (Instruments, Reagents & Consumables, Software & Services)
- 6.2.4. By End User (Commercial Service Providers, Hospitals and Transplant Centers, Research Labs & Academic Institutes)
- 6.2.5. By Region
- 6.2.6. By Company (2023)
- 6.3. Market Map

7. ASIA PACIFIC HLA TYPING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Technique
 - 7.2.2. By Application
 - 7.2.3. By Product
 - 7.2.4. By End User
 - 7.2.5. By Country
- 7.3. Asia Pacific: Country Analysis
 - 7.3.1. China HLA Typing 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 Technique
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Product
 - 7.3.1.2.4. By End User
 - 7.3.2. India HLA Typing 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 Technique
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Product
 - 7.3.2.2.4. By End User
 - 7.3.3. Australia HLA Typing 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 Technique
- 7.3.3.2.2. By Application
- 7.3.3.2.3. By Product
- 7.3.3.2.4. By End User
- 7.3.4. Japan HLA Typing 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 Technique
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By Product
 - 7.3.4.2.4. By End User
- 7.3.5. South Korea HLA Typing 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 Technique
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By Product
 - 7.3.5.2.4. By End User

8. EUROPE HLA TYPING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Technique
 - 8.2.2. By Application
 - 8.2.3. By Product
 - 8.2.4. By End User
 - 8.2.5. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. France HLA Typing 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 Technique
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Product

- 8.3.1.2.4. By End User
- 8.3.2. Germany HLA Typing 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 Technique
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Product
 - 8.3.2.2.4. By End User
- 8.3.3. Spain HLA Typing 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 Technique
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Product
 - 8.3.3.2.4. By End User
- 8.3.4. Italy HLA Typing 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 Technique
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Product
 - 8.3.4.2.4. By End User
- 8.3.5. United Kingdom HLA Typing 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 Technique
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By Product
 - 8.3.5.2.4. By End User

9. NORTH AMERICA HLA TYPING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast

- 9.2.1. By Technique
- 9.2.2. By Application
- 9.2.3. By Product
- 9.2.4. By End User
- 9.2.5. By Country
- 9.3. North America: Country Analysis
 - 9.3.1. United States HLA Typing 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 Technique
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Product
 - 9.3.1.2.4. By End User
 - 9.3.2. Mexico HLA Typing 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 Technique
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Product
 - 9.3.2.2.4. By End User
 - 9.3.3. Canada HLA Typing 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 Technique
 - 9.3.3.2.2. By Application
 - 9.3.3.2.3. By Product
 - 9.3.3.2.4. By End User

10. SOUTH AMERICA HLA TYPING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Technique
 - 10.2.2. By Application
 - 10.2.3. By Product

- 10.2.4. By End User
- 10.2.5. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil HLA Typing 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 Technique
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Product
 - 10.3.1.2.4. By End User
 - 10.3.2. Argentina HLA Typing 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 Technique
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By Product
 - 10.3.2.2.4. By End User
 - 10.3.3. Colombia HLA Typing 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 Technique
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By Product
 - 10.3.3.2.4. By End User

11. MIDDLE EAST AND AFRICA HLA TYPING MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Technique
 - 11.2.2. By Application
 - 11.2.3. By Product
 - 11.2.4. By End User
 - 11.2.5. By Country
- 11.3. MEA: Country Analysis

11.3.1. South Africa HLA Typing Market Outlook

11.3.1.1. Market Size & Forecast

11.3.1.1.1. By Value

11.3.1.2. Market Share & Forecast

11.3.1.2.1. By Technique

11.3.1.2.2. By Application

11.3.1.2.3. By Product

11.3.1.2.4. By End User

11.3.2. Saudi Arabia HLA Typing Market Outlook

11.3.2.1. Market Size & Forecast

11.3.2.1.1. By Value

11.3.2.2. Market Share & Forecast

11.3.2.2.1. By Technique

11.3.2.2.2. By Application

11.3.2.2.3. By Product

11.3.2.2.4. By End User

11.3.3. UAE HLA Typing Market Outlook

11.3.3.1. Market Size & Forecast

11.3.3.1.1. By Value

11.3.3.2. Market Share & Forecast

11.3.3.2.1. By Technique

11.3.3.2.2. By Application

11.3.3.2.3. By Product

11.3.3.2.4. By End User

12. MARKET DYNAMICS

12.1. Drivers

12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

13.1. Recent Developments

13.2. Product Launches

13.3. Mergers & Acquisitions

14. GLOBAL HLA TYPING MARKET: SWOT ANALYSIS

15. PORTER'S FIVE FORCES ANALYSIS

- 15.1. Competition in the Industry
- 15.2. Potential of New Entrants
- 15.3. Power of Suppliers
- 15.4. Power of Customers
- 15.5. Threat of Substitute Product

16. PESTLE ANALYSIS

17. COMPETITIVE LANDSCAPE

- 17.1. Thermo Fisher Scientific Inc.
 - 17.1.1. Business Overview
 - 17.1.2. Products & Services
 - 17.1.3. Recent Developments
 - 17.1.4. Financials (If Listed)
 - 17.1.5. Key Personnel
 - 17.1.6. SWOT Analysis
- 17.2. Bio-Rad Laboratories Inc.
- 17.3. Qiagen LLC
- 17.4. Omixon Inc.
- 17.5. GenDx Products Inc.
- 17.6. Illumina Inc.
- 17.7. TBG Diagnostics Limited
- 17.8. Becton, Dickinson and Company
- 17.9. Takara Bio USA, Inc.
- 17.10.F. Hoffman-La Roche Limited

18. STRATEGIC RECOMMENDATIONS

19. ABOUT US & DISCLAIMER

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