

# Next Generation Biotherapeutics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Therapeutic Area (Oncology, Autoimmune/ Inflammatory Diseases), By Technology (Antibody-Drug Conjugates, Bispecific Antibodies, Antibody Fragments, Antibody-like Proteins, Others), By Region and Competition

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## Abstracts

Global Next Generation Biotherapeutics Market is anticipated to project impressive growth in the forecast period. Next Generation Biotherapeutics, also known as NGBTs, represent a significant and groundbreaking advancement in the field of medicine. These innovative therapies focus on the development of novel biological treatments for a wide range of diseases. By harnessing the power of cutting-edge technologies such as gene therapy, cell therapy, RNA interference, and the use of monoclonal antibodies, NGBTs offer a highly targeted approach to treatment. These therapies are designed to specifically target disease pathways with unrivaled precision, minimizing side effects and maximizing therapeutic efficacy. By doing so, they hold the potential to revolutionize the way we approach medical treatment. With their ability to deliver personalized and tailored healthcare solutions, NGBTs are paving the way for a new era in biomedical innovation.

The impact of NGBTs extends far beyond traditional treatment protocols. They not only offer hope to patients who have exhausted conventional treatments, but they also open doors to new possibilities in healthcare. By unlocking the potential of the human body's own mechanisms and utilizing advanced technologies, NGBTs have the potential to transform the landscape of medicine, providing patients with better outcomes and improved quality of life. As research and development in this field continue to progress,

the future of Next Generation Biotherapeutics holds great promise. With each new discovery, we inch closer to uncovering breakthrough treatments for currently incurable diseases. The continued advancement of NGBTs represents a beacon of hope for patients and healthcare professionals alike, offering a glimpse into a future where diseases can be effectively managed, if not eradicated.

## Key Market Drivers

### Increasing Incidence of Cancer

The increasing incidence of cancer is undeniably a significant driver behind the escalating demand for Next Generation Biotherapeutics (NGB). Cancer remains a global health challenge, and NGB offers innovative and targeted treatment solutions. Cancer is a highly heterogeneous disease with diverse genetic mutations driving its development. NGB leverages advanced genomic profiling to identify these genetic alterations in individual patients. This personalized approach allows for the development of biotherapeutics tailored to the specific genetic makeup of each patient, optimizing treatment efficacy.

As cancer cells can develop resistance to traditional chemotherapy and radiation therapy, the demand for alternative treatment options is growing. NGB provides a promising avenue to overcome treatment resistance by targeting the underlying genetic drivers of cancer. NGB allows for the precise targeting of cancer cells while sparing healthy tissues, minimizing adverse effects associated with conventional treatments. This high degree of specificity enhances patient quality of life during treatment.

Ongoing research utilizing NGB technologies is uncovering new therapeutic targets and pathways in cancer biology. These discoveries lead to the development of novel biotherapeutics, including monoclonal antibodies, CAR-T cell therapies, and mRNA-based vaccines. NGB is instrumental in advancing cancer immunotherapies, such as immune checkpoint inhibitors and personalized cancer vaccines. These treatments harness the patient's immune system to combat cancer, and NGB helps identify suitable immunotherapy candidates based on their unique genetic profiles. The increasing incidence of cancer is driving a growing demand for Next Generation Biotherapeutics. As NGB technologies continue to advance, they offer a beacon of hope for patients, providing tailored and effective treatments that aim to improve outcomes and quality of life for those affected by this devastating disease.

### Rising Prevalence of Autoimmune Diseases

The rising prevalence of autoimmune diseases is a major catalyst behind the increasing demand for Next Generation Biotherapeutics (NGB). Autoimmune diseases, characterized by the immune system mistakenly attacking the body's own tissues, affect millions of people globally. Autoimmune diseases are highly complex and heterogeneous, often involving a multitude of immune dysregulations. NGB enables precise targeting of specific immune pathways and molecules responsible for these diseases, offering a more tailored and effective therapeutic approach. NGB technologies facilitate the discovery of biomarkers associated with autoimmune diseases. These biomarkers help identify individuals at risk, enable early diagnosis, and guide treatment decisions, increasing the demand for NGB-based diagnostics and therapies. The unique genetic and immune profiles of individuals with autoimmune diseases make personalized medicine a crucial approach. NGB allows for the customization of biotherapeutics based on a patient's genetic and immunological characteristics, optimizing treatment outcomes.

NGB contributes to the advancement of biologics, such as monoclonal antibodies and fusion proteins, that specifically target immune cells and molecules involved in autoimmune diseases. These innovative treatments offer improved efficacy and reduced side effects. The rising prevalence of autoimmune diseases is a significant driver of the demand for Next Generation Biotherapeutics. As research and development efforts in this field continue to expand, NGB holds the promise of providing more effective, personalized, and targeted treatments for individuals affected by autoimmune conditions, ultimately improving their quality of life and clinical outcomes.

### Increasing R&D Activities using NGS technologies

The burgeoning field of Next Generation Biotherapeutics (NGB) is experiencing a surge in demand, thanks to the increasing research and development (R&D) activities utilizing Next-Generation Sequencing (NGS) technologies. NGB represents a promising frontier in medicine, offering highly personalized and targeted treatments by harnessing genetic information. NGS technologies allow for comprehensive genomic profiling, enabling the identification of genetic variations and mutations associated with diseases. This precise understanding of a patient's genetic makeup is the foundation of NGB, allowing for the development of tailored therapies.

R&D efforts employing NGS techniques facilitate the discovery of novel therapeutic targets at a genetic level. This leads to the development of innovative biotherapeutics designed to specifically target the underlying genetic causes of diseases. NGS

generates vast amounts of genetic data, which can be harnessed for research and development purposes. This wealth of information aids in the design of more effective biotherapeutics, contributing to the demand for NGB. NGS technologies open new avenues for tackling rare and previously undruggable diseases. Researchers can identify genetic mutations responsible for such conditions and develop biotherapeutics that address these specific genetic defects.

The speed and efficiency of NGS-driven R&D enable faster drug development and clinical trials. This acceleration is vital, particularly for patients with life-threatening conditions who require rapid access to innovative therapies. NGS plays a critical role in pharmacogenomics, which focuses on tailoring drug treatments to an individual's genetic profile. This personalized approach enhances treatment outcomes and minimizes adverse effects.

### Technological Progressions in Biotherapeutics

Technological progressions in the field of biotherapeutics are playing a pivotal role in increasing the demand for Next Generation Biotherapeutics (NGB). These advancements encompass a range of innovative approaches and techniques that are reshaping the landscape of biotherapeutic development and application. Cutting-edge technologies enable the design and development of biotherapies that specifically target disease-causing molecules or cells. This precision minimizes off-target effects and maximizes therapeutic efficacy, making NGB highly sought after.

Advancements in monoclonal antibody engineering and manufacturing have led to the creation of more potent and versatile therapeutics. These antibodies are central to NGB, as they can be customized to target a wide range of diseases, from cancer to autoimmune disorders. Technological progress in gene editing and gene delivery systems has paved the way for gene therapies within the realm of NGB. These therapies offer the potential to correct genetic abnormalities, treat rare diseases, and provide personalized treatments. Chimeric Antigen Receptor T-cell (CAR-T) therapies, a form of cellular immunotherapy, are at the forefront of NGB. Technological advancements in CAR-T cell engineering enhance their specificity, persistence, and safety in treating various cancers. Technological progressions in biotherapeutics are fueling the demand for Next Generation Biotherapeutics across a spectrum of diseases. These advancements empower researchers and clinicians to develop more effective, precise, and personalized treatments, revolutionizing the field of medicine and providing hope for patients facing a wide array of health challenges. As these technologies continue to evolve, their impact on healthcare is poised to grow, further elevating the

demand for NGB.

## Key Market Challenges

### Stringent Regulatory Framework

While Next Generation Biotherapeutics (NGB) hold immense promise in revolutionizing healthcare, stringent regulatory frameworks can pose challenges that may decrease their demand. These regulations, while crucial for ensuring the safety and efficacy of biotherapies, can slow down their development, increase costs, and limit accessibility. Stringent regulatory requirements often result in lengthy development timelines for NGB. Extensive preclinical and clinical testing, as well as rigorous safety evaluations, can delay the availability of innovative biotherapies, hindering their timely delivery to patients in need.

The stringent regulatory demands translate into higher development costs for NGB. Companies and research institutions must invest significant resources in meeting regulatory standards, potentially limiting the number of entities willing to engage in the development of these therapies. Complex regulatory pathways can serve as barriers to entry for smaller biotechnology companies and startups. This can limit competition and innovation in the field, potentially reducing the diversity of available NGB treatments. Delays caused by stringent regulations can limit patient access to NGB, particularly in cases where these therapies represent the best or only available treatment option. Patients facing life-threatening conditions may not have the luxury of waiting for lengthy approval processes.

### High costs of Next-Generation Biotherapeutics

The high costs associated with Next Generation Biotherapeutics (NGB) are a significant factor that can decrease their demand and limit accessibility. While NGB hold great promise for revolutionizing healthcare and offering personalized treatments, the financial burden they impose on healthcare systems, patients, and payers can pose substantial challenges. The exorbitant costs of NGB can render these therapies financially inaccessible to many patients, particularly those without comprehensive insurance coverage. The prospect of facing substantial out-of-pocket expenses can deter individuals from seeking or adhering to NGB treatments. The high price tags associated with NGB can strain healthcare system budgets, especially in publicly funded healthcare systems. Limited resources may force healthcare providers and governments to make difficult decisions about which treatments to offer, potentially

excluding NGB from coverage.

The high costs of Next Generation Biotherapeutics can indeed reduce their demand and hinder their broader adoption. Striking a balance between the need for innovation and affordability is crucial to ensure that these groundbreaking therapies are accessible to those who can benefit from them. Collaborative efforts among stakeholders, including healthcare providers, insurers, pharmaceutical companies, and policymakers, are essential to address the cost challenges associated with NGB and make them more widely accessible.

## Key Market Trends

### Increasing Aging Population

The increasing aging population is a significant driver behind the growing demand for Next Generation Biotherapeutics (NGB). As the world's population ages, the prevalence of age-related and chronic diseases rises substantially. NGB, with its potential to offer precise and innovative treatment options, plays a critical role in addressing the complex healthcare needs of this demographic. With aging comes a higher susceptibility to various age-related diseases such as cancer, neurodegenerative disorders, cardiovascular diseases, and osteoarthritis. NGB offers targeted therapies that can address the underlying genetic and molecular factors driving these conditions, increasing their appeal for the aging population. Older individuals often contend with multiple chronic conditions simultaneously. NGB's capacity for personalized, multifaceted treatments is well-suited to manage these complex medical profiles, providing a more holistic approach to care.

NGB is at the forefront of personalized medicine, tailoring treatments to an individual's unique genetic and molecular profile. This approach is particularly relevant for older adults, who may have distinct medical histories and genetic factors influencing their health. By effectively treating age-related diseases and reducing hospitalizations, NGB has the potential to lower healthcare costs associated with the aging population, making it an attractive option for healthcare systems and payers.

### Advances in Biotechnology and Biomedical Engineering

Advances in biotechnology and biomedical engineering have ushered in a new era of healthcare, with a profound impact on the development and demand for next-generation biotherapeutics. These innovations have revolutionized our understanding of diseases

and their underlying mechanisms, allowing for the creation of highly targeted and personalized treatments. As a result, the demand for next-generation biotherapeutics, including gene therapies, monoclonal antibodies, and cell-based therapies, has surged.

Advances in Biotechnology and Biomedical Engineering are driving an increased demand for Next Generation Biotherapeutics. These advancements have led to a pioneering shift, enabling scientists to develop therapeutic solutions tailored to individual genetic profiles. Leveraging the insights from genomics and proteomics, researchers are now able to devise targeted treatments for various ailments, significantly improving the efficacy and reducing adverse effects. This personalized approach to medicine is revolutionizing the healthcare industry by providing treatments that are optimized for each patient's unique biological makeup, leading to better clinical outcomes and enhanced patient satisfaction. Furthermore, innovations in drug delivery systems, enabled by advancements in nanotechnology, are creating opportunities for non-invasive and controlled release of these biotherapeutics, further augmenting their demand. The increasing prevalence of chronic diseases and the need for effective treatments have also fueled this surge in demand.

## Segmental Insights

### Therapeutic Area Insights

Based on the therapeutic area, the oncology segment emerged as the dominant force in the market, capturing the largest share. This trend is expected to continue with remarkable growth throughout the forecast period. The driving force behind this surge is the escalating incidence of cancer on a global scale, posing a considerable challenge to healthcare systems worldwide. As the prevalence of cancer continues to rise, the demand for effective therapeutic solutions becomes more pressing. In response to this need, next-generation antibodies have emerged as the prevailing treatment modality, offering promising outcomes and driving the expansion of the market. Additionally, the introduction of new products and innovations in the field further contributes to the growth trajectory of the oncology market, fostering a dynamic environment of research, development, and commercialization.

### Technology Insights

Based on the technology segment, Antibody-Drug Conjugates emerged as the frontrunner, capturing the largest market share. The dominance of ADCs is projected to continue throughout the forecast period, solidifying their position in the Next Generation

Biotherapeutics market. A noteworthy advancement in this field is the remarkable progress in ADC technology. By merging the cytotoxic potency of chemotherapy with the advantageous attributes of antibodies, ADCs exhibit exceptional specificity and efficiency, making them a promising avenue in targeted cancer therapy. The ability of ADCs to precisely deliver potent drugs directly to cancer cells while sparing healthy tissues underscores their potential to revolutionize the treatment landscape and improve patient outcomes.

## Regional Insights

North America emerged as the dominant player in the market, capturing the largest market share. This can be attributed to the region's robust research and development (R&D) activities, continuous technical advancements in antibody therapies, substantial investments in healthcare, and proactive government initiatives focused on fostering innovation in this field. As we look ahead, it is anticipated that North America will sustain its growth trajectory over the forecast period.

One of the key drivers of market growth in the region is the escalating prevalence of chronic diseases. This has necessitated a greater demand for effective therapeutic solutions, leading to a surge in the approval of new medicines. Furthermore, the region is witnessing remarkable progress in the development of therapeutic antibodies, fueled by evolving antibody technologies and a growing pipeline of innovative treatments. This, coupled with the increasing demand for enhanced healthcare services, is creating new opportunities for the next-generation therapeutic antibody industry in North America.

Moreover, the region is witnessing a rapid expansion of biosimilar antibodies and engineered antibodies, which is expected to further fuel market growth. The growing occurrence of multiple diseases, coupled with the rising demand for personalized and targeted therapies, is driving the adoption of these advanced antibody-based treatments. These developments are poised to revolutionize the healthcare landscape in North America, offering promising prospects for the future of therapeutic antibodies in the region.

## Key Market Players

Xencor, Inc.

Regenxbio & Neurimmune AG



Takeda Pharmaceutical Company Limited

Pfizer, Inc.

AstraZeneca Plc.

F. Hoffmann-La Roche AG

Kyowa Kirin Co., Ltd

Seattle Genetics, Inc

ImmunoGen, Inc

Ono Pharmaceuticals Co, Ltd

Report Scope:

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

Next Generation Biotherapeutics Market, By Therapeutic Area:

Oncology

Autoimmune/ Inflammatory Diseases

Next Generation Biotherapeutics Market, By Technology:

Antibody-Drug Conjugates

Bispecific Antibodies

Antibody Fragments

Antibody-like Proteins

Others

## Next Generation Biotherapeutics Market, By Region:

### North America

United States

Canada

Mexico

### Europe

France

United Kingdom

Italy

Germany

Spain

### Asia-Pacific

China

India

Japan

Australia

South Korea

### South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Next Generation Biotherapeutics Market.

## Available Customizations:

Global Next Generation Biotherapeutics 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 & Validations
- 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 NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Therapeutic Area (Oncology, Autoimmune/ Inflammatory Diseases)
  - 5.2.2. By Technology (Antibody-Drug Conjugates, Bispecific Antibodies, Antibody Fragments, Antibody-like Proteins, Others)
  - 5.2.3. By Region

- 5.2.4. By Company (2022)
- 5.3. Market Map

## **6. NORTH AMERICA NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Therapeutic Area
  - 6.2.2. By Technology
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Next Generation Biotherapeutics 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 Therapeutic Area
      - 6.3.1.2.2. By Technology
  - 6.3.2. Canada Next Generation Biotherapeutics 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 Therapeutic Area
      - 6.3.2.2.2. By Technology
  - 6.3.3. Mexico Next Generation Biotherapeutics 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 Therapeutic Area
      - 6.3.3.2.2. By Technology

## **7. EUROPE NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Therapeutic Area
  - 7.2.2. By Technology

### 7.2.3. By Country

## 7.3. Europe: Country Analysis

### 7.3.1. Germany Next Generation Biotherapeutics 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 Therapeutic Area

##### 7.3.1.2.2. By Technology

### 7.3.2. United Kingdom Next Generation Biotherapeutics 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 Therapeutic Area

##### 7.3.2.2.2. By Technology

### 7.3.3. Italy Next Generation Biotherapeutics 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 Therapeutic Area

##### 7.3.3.2.2. By Technology

### 7.3.4. France Next Generation Biotherapeutics 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 Therapeutic Area

##### 7.3.4.2.2. By Technology

### 7.3.5. Spain Next Generation Biotherapeutics 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 Therapeutic Area

##### 7.3.5.2.2. By Technology

## **8. ASIA-PACIFIC NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Therapeutic Area

8.2.2. By Technology

8.2.3. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Next Generation Biotherapeutics 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 Therapeutic Area

8.3.1.2.2. By Technology

8.3.2. India Next Generation Biotherapeutics 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 Therapeutic Area

8.3.2.2.2. By Technology

8.3.3. Japan Next Generation Biotherapeutics 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 Therapeutic Area

8.3.3.2.2. By Technology

8.3.4. South Korea Next Generation Biotherapeutics 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 Therapeutic Area

8.3.4.2.2. By Technology

8.3.5. Australia Next Generation Biotherapeutics 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 Therapeutic Area

8.3.5.2.2. By Technology

## **9. SOUTH AMERICA NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

9.1. Market Size & Forecast

9.1.1. By Value

## 9.2. Market Share & Forecast

9.2.1. By Therapeutic Area

9.2.2. By Technology

9.2.3. By Country

## 9.3. South America: Country Analysis

9.3.1. Brazil Next Generation Biotherapeutics 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 Therapeutic Area

9.3.1.2.2. By Technology

9.3.2. Argentina Next Generation Biotherapeutics 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 Therapeutic Area

9.3.2.2.2. By Technology

9.3.3. Colombia Next Generation Biotherapeutics 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 Therapeutic Area

9.3.3.2.2. By Technology

## **10. MIDDLE EAST AND AFRICA NEXT GENERATION BIOTHERAPEUTICS MARKET OUTLOOK**

### 10.1. Market Size & Forecast

10.1.1. By Value

### 10.2. Market Share & Forecast

10.2.1. By Therapeutic Area

10.2.2. By Technology

10.2.3. By Country

### 10.3. MEA: Country Analysis

10.3.1. South Africa Next Generation Biotherapeutics 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 Therapeutic Area



- 10.3.1.2.2. By Technology
- 10.3.2. Saudi Arabia Next Generation Biotherapeutics 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 Therapeutic Area
    - 10.3.2.2.2. By Technology
- 10.3.3. UAE Next Generation Biotherapeutics 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 Therapeutic Area
    - 10.3.3.2.2. By Technology

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions
- 12.3. Product Launches

## **13. GLOBAL NEXT GENERATION BIOTHERAPEUTICS MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Business Overview

- 15.2. Service Offerings
- 15.3. Recent Developments
- 15.4. Key Personnel
- 15.5. SWOT Analysis
  - 15.5.1. Xencor, Inc.
  - 15.5.2. Regenxbio & Neurimmune AG
  - 15.5.3. Takeda Pharmaceutical Company Limited
  - 15.5.4. Pfizer, Inc.
  - 15.5.5. AstraZeneca Plc.
  - 15.5.6. F. Hoffmann-La Roche AG
  - 15.5.7. Kyowa Kirin Co., Ltd
  - 15.5.8. Seattle Genetics, Inc
  - 15.5.9. ImmunoGen, Inc
  - 15.5.10. Ono Pharmaceuticals Co, Ltd

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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