

Therapeutic Vaccines Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product (Cancer Vaccines, Infectious Disease Vaccines, and Others), Technology (Allogenic Vaccines and Autologous Vaccines), End User (Hospitals, Clinics, and Others), and Geography

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Abstracts

The therapeutic vaccines market size is expected to grow from US\$ 1.24 billion in 2024 to US\$ 2.93 billion by 2031; it is projected to register a CAGR of 13.0% during 2024-2031. The rising prevalence of chronic diseases, and increasing investments and funding for vaccine development are noteworthy factors contributing to the expansion of the therapeutic vaccines market size. However, regulatory challenges hinder the therapeutic vaccines market growth.

Developing vaccines against emerging pathogens that possess the potential to cause pandemics is not feasible using conventional technologies. As a result, it is important to develop platforms that can respond rapidly to pandemic threats and adapt effectively to measures taken to tackle emerging variants. Innovative vaccine platforms—such as mRNA vaccines, immuno-material-based vaccine technology, nano-drug delivery systems, and viral vector-based vaccines—are revolutionizing the development of therapeutic vaccines. Further, the shift toward more efficient and customizable vaccine technologies has enabled the development of vaccines that can target several diseases, including cancers, autoimmune conditions, and infectious diseases. The success of mRNA COVID-19 vaccine technology showcases promises in the potential of mRNA technology for therapeutic applications beyond infectious diseases, including cancer and chronic infections. These platforms allow for quicker, more flexible, and better

scalable vaccine production, accelerating the development of new therapeutic vaccines.

Researchers are developing novel platforms for future applications. For instance, a research team at the Wyss Institute at Harvard University is developing a pioneering vaccine platform known as OMNIVAX. This 'first-in-class immuno-material-based' vaccine technology aims to create safe and effective therapeutic and prophylactic vaccines against viral and bacterial infections. Upon injection, OMNIVAX vaccines establish a scaffold to attract dendritic immune cells, programming them to target a specific antigen. The cells are then released, followed by their migration to nearby lymph nodes, where they initiate a systemic and prolonged immune response. Using modular technology, multiple antigens can be incorporated into a single OMNIVAX vaccine. The advancements in vaccine technology are likely to bring new trends in the therapeutic vaccines market in the coming years.

End User-Based Insights

Based on end user, the therapeutic vaccines market is segmented into hospitals, clinics, and others. The hospitals segment held the largest therapeutic vaccines market share in 2024. Therapeutic vaccines are increasingly being recognized as a critical part of the treatment of cancer and other chronic diseases, which are frequently managed in hospital settings. Hospitals are equipped with the advanced infrastructure required to administer specialized therapies against cancer and autoimmune diseases. As the prevalence of chronic diseases, including cancer, continues to rise globally, hospitals generate a persistent demand for these treatments. Hospitals offer comprehensive care, including diagnostic services, treatment, and post-therapy monitoring, all of which are crucial for patients undergoing therapeutic vaccine treatments. Additionally, an upsurge in hospital-based research and clinical trials contributes to the expansion of the therapeutic vaccines market for this segment. Many therapeutic vaccines undergo trials within hospital environments, enabling healthcare professionals to stay updated on the development of new vaccines and treatments, fueling the therapeutic vaccines market growth.

World Health Organization's (WHO), Global Cancer Facts & Figures, and the American Cancer Society are among the primary and secondary sources referred to while preparing the therapeutic vaccines market report.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country level data:

4. THERAPEUTIC VACCINES MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis

5. THERAPEUTIC VACCINES MARKET – KEY MARKET DYNAMICS

- 5.1 Therapeutic Vaccines Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Rising Prevalence of Chronic Conditions
 - 5.2.2 Increasing Investments and Funding for Vaccine Development
- 5.3 Market Restraints
 - 5.3.1 Regulatory Challenges
- 5.4 Market Opportunities
 - 5.4.1 Extending Product Pipeline
- 5.5 Future Trends
 - 5.5.1 Advancements in Vaccine Technology
- 5.6 Impact of Drivers and Restraints:

6. THERAPEUTIC VACCINES MARKET – GLOBAL MARKET ANALYSIS

6.1 Therapeutic Vaccines Market Revenue (US\$ Thousand), 2021–2031

6.2 Therapeutic Vaccines Market Forecast Analysis

7. THERAPEUTIC VACCINES MARKET ANALYSIS – BY PRODUCT

7.1 Cancer Vaccines

7.1.1 Overview

7.1.2 Cancer Vaccines: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.2 Infectious Disease Vaccines

7.2.1 Overview

7.2.2 Infectious Disease Vaccines: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

7.3 Others

7.3.1 Overview

7.3.2 Others: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

8. THERAPEUTIC VACCINES MARKET ANALYSIS – BY TECHNOLOGY

8.1 Allogenic Vaccine

8.1.1 Overview

8.1.2 Allogenic Vaccine: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

8.2 Autologous Vaccine

8.2.1 Overview

8.2.2 Autologous Vaccine: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

9. THERAPEUTIC VACCINES MARKET ANALYSIS – BY END USER

9.1 Hospitals

9.1.1 Overview

9.1.2 Hospitals: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

9.2 Clinics

9.2.1 Overview

9.2.2 Clinics: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

9.3 Others

9.3.1 Overview

9.3.2 Others: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10. THERAPEUTIC VACCINES MARKET – GEOGRAPHICAL ANALYSIS

10.1 North America

10.1.1 North America Therapeutic Vaccines Market Overview

10.1.2 North America: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.1.2.1 North America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Product

10.1.2.2 North America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Technology

10.1.2.3 North America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by End User

10.1.3 North America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Country

10.1.3.1 United States: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.1.3.1.1 United States: Therapeutic Vaccines Market Breakdown, by Product

10.1.3.1.2 United States: Therapeutic Vaccines Market Breakdown, by Technology

10.1.3.1.3 United States: Therapeutic Vaccines Market Breakdown, by End User

10.1.3.2 Canada: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.1.3.2.1 Canada: Therapeutic Vaccines Market Breakdown, by Product

10.1.3.2.2 Canada: Therapeutic Vaccines Market Breakdown, by Technology

10.1.3.2.3 Canada: Therapeutic Vaccines Market Breakdown, by End User

10.1.3.3 Mexico: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.1.3.3.1 Mexico: Therapeutic Vaccines Market Breakdown, by Product

10.1.3.3.2 Mexico: Therapeutic Vaccines Market Breakdown, by Technology

10.1.3.3.3 Mexico: Therapeutic Vaccines Market Breakdown, by End User

10.2 Europe

10.2.1 Europe Therapeutic Vaccines Market Overview

10.2.2 Europe: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.2.1 Europe: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Product

10.2.2.2 Europe: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Technology

10.2.2.3 Europe: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by End User

10.2.3 Europe: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Country

10.2.3.1 Germany: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.1.1 Germany: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.1.2 Germany: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.1.3 Germany: Therapeutic Vaccines Market Breakdown, by End User

10.2.3.2 United Kingdom: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.2.1 United Kingdom: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.2.2 United Kingdom: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.2.3 United Kingdom: Therapeutic Vaccines Market Breakdown, by End User

10.2.3.3 France: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.3.1 France: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.3.2 France: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.3.3 France: Therapeutic Vaccines Market Breakdown, by End User

10.2.3.4 Italy: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.4.1 Italy: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.4.2 Italy: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.4.3 Italy: Therapeutic Vaccines Market Breakdown, by End User

10.2.3.5 Spain: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.5.1 Spain: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.5.2 Spain: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.5.3 Spain: Therapeutic Vaccines Market Breakdown, by End User

10.2.3.6 Rest of Europe: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.2.3.6.1 Rest of Europe: Therapeutic Vaccines Market Breakdown, by Product

10.2.3.6.2 Rest of Europe: Therapeutic Vaccines Market Breakdown, by Technology

10.2.3.6.3 Rest of Europe: Therapeutic Vaccines Market Breakdown, by End User

10.3 Asia Pacific

10.3.1 Asia Pacific Therapeutic Vaccines Market Overview

10.3.2 Asia Pacific: Therapeutic Vaccines Market – Revenue and Forecast to 2031
(US\$ Thousand)

10.3.2.1 Asia Pacific: Therapeutic Vaccines Market – Revenue and Forecast Analysis
– by Product

10.3.2.2 Asia Pacific: Therapeutic Vaccines Market – Revenue and Forecast Analysis
– by Technology

10.3.2.3 Asia Pacific: Therapeutic Vaccines Market – Revenue and Forecast Analysis
– by End User

10.3.3 Asia Pacific: Therapeutic Vaccines Market – Revenue and Forecast Analysis –
by Country

10.3.3.1 China: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$
Thousand)

10.3.3.1.1 China: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.1.2 China: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.1.3 China: Therapeutic Vaccines Market Breakdown, by End User

10.3.3.2 Japan: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$
Thousand)

10.3.3.2.1 Japan: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.2.2 Japan: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.2.3 Japan: Therapeutic Vaccines Market Breakdown, by End User

10.3.3.3 India: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$
Thousand)

10.3.3.3.1 India: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.3.2 India: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.3.3 India: Therapeutic Vaccines Market Breakdown, by End User

10.3.3.4 South Korea: Therapeutic Vaccines Market – Revenue and Forecast to 2031
(US\$ Thousand)

10.3.3.4.1 South Korea: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.4.2 South Korea: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.4.3 South Korea: Therapeutic Vaccines Market Breakdown, by End User

10.3.3.5 Australia: Therapeutic Vaccines Market – Revenue and Forecast to 2031
(US\$ Thousand)

10.3.3.5.1 Australia: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.5.2 Australia: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.5.3 Australia: Therapeutic Vaccines Market Breakdown, by End User

10.3.3.6 Rest of APAC: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.3.3.6.1 Rest of APAC: Therapeutic Vaccines Market Breakdown, by Product

10.3.3.6.2 Rest of APAC: Therapeutic Vaccines Market Breakdown, by Technology

10.3.3.6.3 Rest of APAC: Therapeutic Vaccines Market Breakdown, by End User

10.4 Middle East & Africa

10.4.1 Middle East & Africa Therapeutic Vaccines Market Overview

10.4.2 Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.4.2.1 Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Product

10.4.2.2 Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Technology

10.4.2.3 Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by End User

10.4.3 Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Country

10.4.3.1 Saudi Arabia: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.4.3.1.1 Saudi Arabia: Therapeutic Vaccines Market Breakdown, by Product

10.4.3.1.2 Saudi Arabia: Therapeutic Vaccines Market Breakdown, by Technology

10.4.3.1.3 Saudi Arabia: Therapeutic Vaccines Market Breakdown, by End User

10.4.3.2 South Africa: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.4.3.2.1 South Africa: Therapeutic Vaccines Market Breakdown, by Product

10.4.3.2.2 South Africa: Therapeutic Vaccines Market Breakdown, by Technology

10.4.3.2.3 South Africa: Therapeutic Vaccines Market Breakdown, by End User

10.4.3.3 United Arab Emirates: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.4.3.3.1 United Arab Emirates: Therapeutic Vaccines Market Breakdown, by Product

10.4.3.3.2 United Arab Emirates: Therapeutic Vaccines Market Breakdown, by Technology

10.4.3.3.3 United Arab Emirates: Therapeutic Vaccines Market Breakdown, by End User

10.4.3.4 Rest of Middle East & Africa: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.4.3.4.1 Rest of Middle East & Africa: Therapeutic Vaccines Market Breakdown, by Product

10.4.3.4.2 Rest of Middle East & Africa: Therapeutic Vaccines Market Breakdown, by Technology

10.4.3.4.3 Rest of Middle East & Africa: Therapeutic Vaccines Market Breakdown, by End User

10.5 South & Central America

10.5.1 South & Central America Therapeutic Vaccines Market Overview

10.5.2 South & Central America: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.5.2.1 South & Central America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Product

10.5.2.2 South & Central America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Technology

10.5.2.3 South & Central America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by End User

10.5.3 South & Central America: Therapeutic Vaccines Market – Revenue and Forecast Analysis – by Country

10.5.3.1 Brazil: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.5.3.1.1 Brazil: Therapeutic Vaccines Market Breakdown, by Product

10.5.3.1.2 Brazil: Therapeutic Vaccines Market Breakdown, by Technology

10.5.3.1.3 Brazil: Therapeutic Vaccines Market Breakdown, by End User

10.5.3.2 Argentina: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.5.3.2.1 Argentina: Therapeutic Vaccines Market Breakdown, by Product

10.5.3.2.2 Argentina: Therapeutic Vaccines Market Breakdown, by Technology

10.5.3.2.3 Argentina: Therapeutic Vaccines Market Breakdown, by End User

10.5.3.3 Rest of South & Central America: Therapeutic Vaccines Market – Revenue and Forecast to 2031 (US\$ Thousand)

10.5.3.3.1 Rest of South & Central America: Therapeutic Vaccines Market Breakdown, by Product

10.5.3.3.2 Rest of South & Central America: Therapeutic Vaccines Market Breakdown, by Technology

10.5.3.3.3 Rest of South & Central America: Therapeutic Vaccines Market Breakdown, by End User

11. THERAPEUTIC VACCINES MARKET – INDUSTRY LANDSCAPE

11.1 Overview

11.2 Growth Strategies in the Therapeutic Vaccines Market

11.3 Organic Growth Strategies

11.3.1 Overview

11.4 Inorganic Growth Strategies

11.4.1 Overview

12. COMPANY PROFILES

12.1 Dendreon

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 BioNTech SE

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Serum Institute of India Pvt. Ltd

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 Merck & Co Inc

12.4.1 Key Facts

12.4.2 Business Description

12.4.3 Products and Services

12.4.4 Financial Overview

12.4.5 SWOT Analysis

12.4.6 Key Developments

12.5 Amgen Inc

12.5.1 Key Facts

12.5.2 Business Description

12.5.3 Products and Services

- 12.5.4 Financial Overview
- 12.5.5 SWOT Analysis
- 12.5.6 Key Developments
- 12.6 ISA Pharmaceuticals BV
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 INOVIO Pharmaceuticals Inc
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Transgene SA
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 THERAVECTYS SA
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 CureVac SE
 - 12.10.1 Key Facts
 - 12.10.2 Business Description
 - 12.10.3 Products and Services
 - 12.10.4 Financial Overview
 - 12.10.5 SWOT Analysis
 - 12.10.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 Glossary of Terms

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Product name: Therapeutic Vaccines Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product (Cancer Vaccines, Infectious Disease Vaccines, and Others), Technology (Allogenic Vaccines and Autologous Vaccines), End User (Hospitals, Clinics, and Others), and Geography

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