

# AI in Biotechnology Market – Global Industry Size, Share, Growth, Trends, Opportunity, and Forecast, 2025 – 2033

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## Abstracts

The integration of artificial intelligence (AI) within the biotechnology sector is transforming how companies approach research and development. By leveraging advanced data analytics and machine learning algorithms, biotechnology firms can enhance their capabilities, optimize processes, and ultimately improve outcomes. Such technology is not merely a trend but a significant evolution in the industry.

### AI in Biotechnology Market Size and Trends

The global AI in biotechnology market was valued at USD 3.23 billion in 2024, and is expected to reach USD 14.97 billion by 2033, rising at a CAGR of 21.1% during the forecast period.

### AI in Biotechnology Market Growth Drivers

Several factors are driving the growth of AI in the biotechnology market. First, the increasing volume of biological data necessitates advanced analytical tools. Traditional methods are often insufficient to process and interpret large datasets, highlighting the essential role of AI. Furthermore, AI-driven technologies enable faster drug discovery and personalized medicine, streamlining the path from laboratory to market.

Looking ahead, the synergy of AI and biotechnology is poised to unlock new discoveries and efficiency gains, solidifying its importance in the healthcare landscape.

### AI in Biotechnology Market Synopsis

This new 2025 market report presents an in-depth assessment of the global AI in biotechnology market dynamics, opportunities, future road map, competitive landscape and discusses major trends. The report offers the most up-to-date industry data on the actual market situation and future outlook in the global AI in biotechnology market. The report also provides up-to-date historical market size data for the period 2022 – 2024 and an illustrative forecast to 2033 covering key market aspects like market value, share, analysis, and trends for the global AI in biotechnology market.

The report provides a detailed analysis of the current industry situation and market requirements, highlighting facts about the market size, market share, revenue for global AI in biotechnology market segments, and a vivid forecast to 2033.

It also provides a comprehensive analysis of the pricing landscape, policies and regulation, and reimbursement pattern by countries and region. The report also offers analysis and information according to categories such as market segments, product offering, end-user, function, deployment, geographies, companies and competitive landscape. The report also provides a detailed description of the porter's five forces analysis, SWOT analysis, funding, merger and acquisitions, pipeline, growth drivers and challenges of the global AI in biotechnology market.

An in-depth analysis of the main competitors in the industry has been conducted to offer insights into their business profiles, services, primary strategies, contracts, alliances, agreements, new service introductions, mergers and acquisitions, and recent events related to the AI in biotechnology market. This report covers the competitive analysis of new startups in the AI in biotechnology market ecosystem. Additionally, the research also addresses industry-specific trends like technology assessment, ecosystem and market analysis, as well as the patent and regulatory environment, among others

The report will serve as a source for a 360-degree analysis in which various models will be thoroughly integrated. After a thorough study of the historical and current growth parameters, the growth prospects of the global AI in biotechnology market are determined with utmost precision.

## **AI in Biotechnology Market Segmentations**

This new 2025 market report offers a detailed analysis of the AI in biotechnology market based on the following segments:

### **Market Breakup by Offering**

End-to-End Solutions

Niche Solutions

Technologies

Services

### **Market Breakup by End-User**

Pharmaceutical Companies

Biotechnology Companies

Research Institutes & Labs

Healthcare Providers

Clinical Research Organizations

### **Market Breakup by Function**

Research & Development

Regulatory Compliance

Manufacturing & Supply Chain

Launch & Commercial

Post Marketing Surveillance & Patient Support

Corporate

### **Market Breakup by Deployment Mode**

Cloud-based Solutions

On-premise Solutions

### **Market Breakup by Region**

North America

Europe

Asia Pacific

Latin America

Middle East & Africa

### **Market Breakup by Country**

United States

Canada

Germany

United Kingdom

France

Italy

Spain

Switzerland

Netherlands

China

Japan

India

South Korea

Israel

### **List of Key Players in the Global AI in Biotechnology Market**

Generate Biomedicines

Exscientia

Absci Corporation

Insilico Medicine

Recursion Pharmaceuticals

GenBio AI

Owkin

DeepMind (Alphabet)

Cradle Bio

Antiverse

Pfizer

AstraZeneca

Roche

Merck

Novartis

AstraZeneca

## Key Features of the Report

The global AI in biotechnology market provides granular level information about the market size, market share, historic market (2020 – 2024), and forecast (2025 – 2033)

Annualized revenues and country level analysis for each market segment.

Analysis of business strategies by identifying the key market segments positioned for strong growth in the future.

The report covers in-detail insights about the competitor's overview, company share analysis, key market developments, and key strategies.

The report outlines drivers, restraints, unmet needs, and trends that are currently affecting the market.

The report tracks recent innovations, key developments, and start-up details that are actively working in the market.

The report provides a plethora of information about market entry strategies, regulatory framework, and reimbursement scenarios.

The report analyses the impact of the socio-political environment through SWOT analysis and competition through porter's five force analysis

Through study of the key business strategies and recommendations on future market approach.

Comprehensive analysis of the competitive structure of the market.

Demand side and supply side analysis of the market

## Key Questions the Report Addresses

How big is the global AI in biotechnology market?

What is the current global AI in biotechnology market size?

Which product offering is projected to lead the market segment?

Which end user is likely to dominate the market segment?

What is the major driving factor for the global AI in biotechnology market?

Which factor is restraining the growth of the global AI in biotechnology market?

Who are the key players in the global AI in biotechnology market?

Which region has the biggest share in the global AI in biotechnology market?

Which is the fastest growing country in the global AI in biotechnology market?

How are partnerships, collaborations, mergers, and acquisitions among the key market players shaping the market dynamics?

## Contents

### **1. MARKET DEFINITION**

### **2. RESEARCH AND METHODOLOGY**

### **3. EXECUTIVE SUMMARY**

### **4. GLOBAL AI IN BIOTECHNOLOGY MARKET – MARKET DYNAMICS**

#### 4.1 Growth Drivers

#### 4.2 Challengers

#### 4.3 Funding and Merger & Acquisitions

### **5. GLOBAL AI IN BIOTECHNOLOGY MARKET – INDUSTRY ANALYSIS**

#### 5.1 SWOT Analysis

##### 5.1.1 Strengths

##### 5.1.2 Weaknesses

##### 5.1.3 Opportunities

##### 5.1.4 Threats

#### 5.2 Porter's Analysis

##### 5.2.1 Threat of New Entrants

##### 5.2.2 Bargaining Power of Suppliers

##### 5.2.3 Bargaining Power of Buyers

##### 5.2.4 Threat of Substitute Products or Services

##### 5.2.5 Rivalry Among Existing Competitors

### **6. GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

### **7. GLOBAL AI IN BIOTECHNOLOGY MARKET SHARE & FORECAST (2022 – 2033)**

#### 7.1 By Offering

#### 7.2 By Function

#### 7.3 By Deployment Mode

#### 7.4 By End User

#### 7.5 By Region

#### 7.6 By Country

## **8. BY OFFERING – GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

- 8.1 End-to-End Solutions
- 8.2 Niche Solutions
- 8.3 Technologies
- 8.4 Services

## **9. BY END USE – GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

- 9.1 Pharmaceutical Companies
- 9.2 Biotechnology Companies
- 9.3 Research Institutes & Labs
- 9.4 Healthcare Providers
- 9.5 Clinical Research Organizations

## **10. BY FUNCTION – GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

- 10.1 Research & Development
- 10.2 Regulatory Compliance
- 10.3 Manufacturing & Supply Chain
- 10.4 Launch & Commercial
- 10.5 Post Marketing Surveillance & Patient Support
- 10.6 Corporate

## **11. BY DEPLOYMENT MODE – GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

- 11.1 Cloud-based Solutions
- 11.2 On-premise Solutions

## **12. BY REGION – AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033)**

- 12.1 North America
- 12.2 Europe
- 12.3 Asia Pacific
- 12.4 Latin America

12.5 Middle East & Africa

## **13. BY COUNTRY – GLOBAL AI IN BIOTECHNOLOGY MARKET & FORECAST (2022 – 2033) (102 PAGE)**

13.1 United States

13.1.1 Market Size

13.1.2 Growth Drivers

13.1.3 Regulatory Policy & Reimbursements

13.2 Canada

13.2.1 Market Size

13.2.2 Growth Drivers

13.2.3 Regulatory Policy & Reimbursements

13.3 Germany

13.3.1 Market Size

13.3.2 Growth Drivers

13.3.3 Regulatory Policy & Reimbursements

13.4 United Kingdom

13.4.1 Market Size

13.4.2 Growth Drivers

13.4.3 Regulatory Policy & Reimbursements

13.5 France

13.5.1 Market Size

13.5.2 Growth Drivers

13.5.3 Regulatory Policy & Reimbursements

13.6 Italy

13.6.1 Market Size

13.6.2 Growth Drivers

13.6.3 Regulatory Policy & Reimbursements

13.7 Spain

13.7.1 Market Size

13.7.2 Growth Drivers

13.7.3 Regulatory Policy & Reimbursements

13.8 Switzerland

13.8.1 Market Size

13.8.2 Growth Drivers

13.8.3 Regulatory Policy & Reimbursements

13.9 Netherlands

13.9.1 Market Size

- 13.9.2 Growth Drivers
- 13.9.3 Regulatory Policy & Reimbursements
- 13.10 China
  - 13.10.1 Market Size
  - 13.10.2 Growth Drivers
  - 13.10.3 Regulatory Policy & Reimbursements
- 13.11 Japan
  - 13.11.1 Market Size
  - 13.11.2 Growth Drivers
  - 13.11.3 Regulatory Policy & Reimbursements
- 13.12 India
  - 13.12.1 Market Size
  - 13.12.2 Growth Drivers
  - 13.12.3 Regulatory Policy & Reimbursements
- 13.13 South Korea
  - 13.13.1 Market Size
  - 13.13.2 Growth Drivers
  - 13.13.3 Regulatory Policy & Reimbursements
- 13.14 Israel
  - 13.14.1 Market Size
  - 13.14.2 Growth Drivers
  - 13.14.3 Regulatory Policy & Reimbursements
- 13.15 Rest of the Countries (ROC)
  - 13.15.1 Market Size
  - 13.15.2 Growth Drivers

## **14. GLOBAL AI IN BIOTECHNOLOGY MARKET – KEY PLAYERS PROFILE**

- 14.1 Generate Biomedicines
  - 14.1.1 Business Overview
  - 14.1.2 Recent Developments
  - 14.1.3 SWOT Analysis
  - 14.1.4 Market Strategy
- 14.2 Exscientia
  - 14.2.1 Business Overview
  - 14.2.2 Recent Developments
  - 14.2.3 SWOT Analysis
  - 14.2.4 Market Strategy
- 14.3 Absci Corporation

- 14.3.1 Business Overview
- 14.3.2 Recent Developments
- 14.3.3 SWOT Analysis
- 14.3.4 Market Strategy
- 14.4 Insilico Medicine
  - 14.4.1 Business Overview
  - 14.4.2 Recent Developments
  - 14.4.3 SWOT Analysis
  - 14.4.4 Market Strategy
- 14.5 Recursion Pharmaceuticals
  - 14.5.1 Business Overview
  - 14.5.2 Recent Developments
  - 14.5.3 SWOT Analysis
  - 14.5.4 Market Strategy
- 14.6 GenBio AI
  - 14.6.1 Business Overview
  - 14.6.2 Recent Developments
  - 14.6.3 SWOT Analysis
  - 14.6.4 Market Strategy
- 14.7 Owkin
  - 14.7.1 Business Overview
  - 14.7.2 Recent Developments
  - 14.7.3 SWOT Analysis
  - 14.7.4 Market Strategy
- 14.8 DeepMind (Alphabet)
  - 14.8.1 Business Overview
  - 14.8.2 Recent Developments
  - 14.8.3 SWOT Analysis
  - 14.8.4 Market Strategy
- 14.9 Cradle Bio
  - 14.9.1 Business Overview
  - 14.9.2 Recent Developments
  - 14.9.3 SWOT Analysis
  - 14.9.4 Market Strategy
- 14.10 Antiverse
  - 14.10.1 Business Overview
  - 14.10.2 Recent Developments
  - 14.10.3 SWOT Analysis
  - 14.10.4 Market Strategy

#### 14.11 Pfizer

- 14.11.1 Business Overview
- 14.11.2 Recent Developments
- 14.11.3 SWOT Analysis
- 14.11.4 Market Strategy

#### 14.12 AstraZeneca

- 14.12.1 Business Overview
- 14.12.2 Recent Developments
- 14.12.3 SWOT Analysis
- 14.12.4 Market Strategy

#### 14.13 Roche

- 14.13.1 Business Overview
- 14.13.2 Recent Developments
- 14.13.3 SWOT Analysis
- 14.13.4 Market Strategy

#### 14.14 Merck

- 14.14.1 Business Overview
- 14.14.2 Recent Developments
- 14.14.3 SWOT Analysis
- 14.14.4 Market Strategy

#### 14.15 Novartis

- 14.15.1 Business Overview
- 14.15.2 Recent Developments
- 14.15.3 SWOT Analysis
- 14.15.4 Market Strategy

#### 14.16 AstraZeneca

- 14.16.1 Business Overview
- 14.16.2 Recent Developments
- 14.16.3 SWOT Analysis
- 14.16.4 Market Strategy

## I would like to order

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