

Synthetic Biology Market Size, Share & Trends Analysis Report By Product (Enzymes, Cloning Technologies Kits), By Technology (PCR, NGS), By Application (Non-healthcare, Healthcare), By End-use, And Segment Forecasts, 2022 - 2030

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Abstracts

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Synthetic Biology Market Growth & Trends

The global synthetic biology market size is expected to reach USD 55,371.1 million by 2030, registering a CAGR of 19.7% during the forecast period, according to a new report by Grand View Research, Inc. The presence of government and private funding to support research in vaccines and a strong synthetic biologic-based product pipeline in clinical trials are the key driving factors for the market. Synthetic biology processes provide crucial advantages for producing antigen and diagnostic reagents for disease identification, accelerating the speed of vaccine development, and improving overall vaccine performance and yield.

Furthermore, support from government agencies and the presence of several programs are likely to boost the market growth. For instance, in the U.S., COVID-19 vaccine R&D, manufacture, regulation, and purchase have been highly supported by collaboration between federal agencies, including the Biomedical Advanced Research and Development Authority (BARDA), the National Institutes of Health (NIH), DOD, FDA, and others (formerly OWS).

Other factors such as expanding demand in industries such as textiles and nutrition are also contributing to the market growth. Several optimal food production processes have

been identified with the help of synthetic biology. In addition, synthetic biology is predicted to aid in the generation of higher agricultural yields and pest control development. It is expected to help in the production of better food yield and pest control management.

The COVID-19 pandemic is anticipated to positively impact market growth. Synthetic biology has been highlighted as a means to accelerate vaccine development by the National Institute of Health in the U.S. Therefore, synthetic biology labs and companies have been actively utilizing this technology to combat the COVID-19 pandemic. As a result, the usage of these technologies is projected to increase during the outbreak.

The growing demand for personalized medicine is expected to majorly drive market growth during the coming years. The use of engineered novel proteins for use as therapeutics has demonstrated synthetic biology in the medical segment. These proteins are designed with some modified protein structure to get the desirable properties required for the treatment. For instance, researchers are developing a therapeutic enzyme candidate that is GI-stable and can be given via oral route to treat Phenylketonuria (PKU).

On the other hand, synthetic biology has raised a few concerns regarding biosecurity and biosafety. Exposure to these products may cause unknown hazards to public health and the environment. To prevent such issues, countries of Europe, the Americas, and Asia have formulated policies to manage the application of synthetic biology techniques in basic & applied research.

Synthetic Biology Market Report Highlights

By technology, the PCR segment held the largest share of the market. This is attributed to the accelerated development in modern life science, with PCR technology being widely employed in numerous fields of medical research, virus detection, and the food & beverage industry

The genome-editing segment is expected to grow steadily during the forecast period. It enables researchers to modify the DNA of various organisms, including plants, bacteria, and animals, and their demand is expected to skyrocket in the coming years

By product, Oligonucleotide and Synthetic DNA is anticipated to have the larger market share in 2030. The falling price of synthesis and increasing requirement

for synthetic DNA, RNA, and genes that are employed in numerous applications contribute to the segment growth

By application, the healthcare segment held a larger global market share. This is attributed to an increase in drug screening and discovery. Moreover, the use of synthetic biology can reduce the cost of drug discovery and propel market growth

By end-user, the biotechnology and pharmaceutical companies segment held a larger share in 2021, owing to the growing availability of modern research facilities, favorable legislation, and government assistance and funding

North America was positioned as the dominant market in 2021 due to the presence of high R&D investment, the availability of technologically advanced healthcare research frameworks, and the development of the synthetic biology market in the region

The Asia Pacific is expected to witness considerable growth in the future owing to the rising development of personalized treatment and the presence of key players

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Methodology
- 1.2 Research Assumptions
 - 1.2.1 Estimates And Forecast Timeline
- 1.3 Research Methodology
- 1.4 Information Procurement
 - 1.4.1 Purchased Database
 - 1.4.2 Gvr's Internal Database
 - 1.4.3 Secondary Sources
 - 1.4.4 Primary Research
 - 1.4.5 Details Of Primary Research
- 1.5 Information or Data Analysis
 - 1.5.1 Data Analysis Models
- 1.6 Market Formulation & Validation
- 1.7 Model Details
 - 1.7.1 Commodity Flow Analysis
 - 1.7.1.1 Approach 1: Commodity Flow Approach
 - 1.7.1.2 Approach 2: Country Wise Market Estimation Using Bottom Up Approach
- 1.8 Global Market: CAGR Calculation
- 1.9 List of Secondary Sources
- 1.10 List of Primary Sources
- 1.11 Objectives
 - 1.11.1 Objective 1:
 - 1.11.2 Objective 2:

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Summary

CHAPTER 3 MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Segmentation
- 3.2 Synthetic Biology Market Lineage Outlook
 - 3.2.1 Parent Market Outlook
- 3.3 Penetration and Growth Prospect Mapping
- 3.4 Market Driver Analysis

- 3.4.1 Extensive Applications Of Synthetic Biology
- 3.4.2 Funding And Assistance From Government And Private Organization
- 3.4.3 Growing Research And Development Activities In Synthetic Biology
- 3.5 Market Restraint Analysis
 - 3.5.1 Biosafety, Biosecurity Issue
 - 3.5.2 Ethical Issues And Unintended Consequences
- 3.6 Market Opportunity Analysis
 - 3.6.1 Development Of Vaccines And Personalized Medicines
 - 3.6.2 Demand For Biofuel
- 3.7 Market Challenge Analysis
 - 3.7.1 Lack Of Standard Regulation For Synthetic Biology Products
- 3.8 Business Environment Analysis
 - 3.8.1 Swot Analysis; By Factor (Political & Legal, Economic And Technological)
 - 3.8.2 Porter's Five Forces Analysis
- 3.9 Competitive Analysis
 - 3.9.1 Recent Developments & Impact Analysis, By Key Market Participants
 - 3.9.1.1 Strategy Framework
 - 3.9.1.2 Market Participant Categorization
 - 3.9.1.3 Major Deals & Strategic Alliances Analysis
 - 3.9.1.3.1 Mergers And Acquisitions
 - 3.9.1.3.2 Partnerships
 - 3.9.1.3.3 Agreements
 - 3.9.1.3.4 Synergies, Collaborations, And Other Initiatives
 - 3.9.2 Market Entry Strategies

CHAPTER 4 PRODUCTS BUSINESS ANALYSIS

- 4.1 Synthetic Biology Market: Products Movement Analysis
- 4.2 Oligonucleotide/Oligo Pools And Synthetic Dna
 - 4.2.1 Global Synthetic Biology Market For Oligonucleotide/Oligo Pools And Synthetic Dna Estimates And Forecast, 2018 - 2030 (USD Million)
- 4.3 Enzymes
 - 4.3.1 Global Synthetic Biology Market For Enzymes Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 4.4 Cloning Technologies Kits
 - 4.4.1 Global Synthetic Biology Market For Cloning Technologies Kits Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 4.5 Xeno-Nucleic Acids
 - 4.5.1 Global Synthetic Biology Market For Xeno-Nucleic Acids Synthetic Biology

Market Estimates And Forecast, 2018 - 2030 (USD Million)

4.6 Chassis Organism

4.6.1 Global Synthetic Biology Market For Chassis Organism Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 5 TECHNOLOGY BUSINESS ANALYSIS

5.1 Synthetic Biology Market: Technology Movement Analysis

5.2 PCR

5.2.1 Global Synthetic Biology Market For PCR Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

5.3 Genome Editing

5.3.1 Global Synthetic Biology Market For Genome Editing Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

5.4 NGS

5.4.1 Global Synthetic Biology Market For NGS Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

5.5 Bioprocessing Technology

5.5.1 Global Synthetic Biology Market For Bioprocessing Technology Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

5.6 Others

5.6.1 Global Synthetic Biology Market For Others Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 6 APPLICATION BUSINESS ANALYSIS

6.1 Synthetic Biology Market: Application Movement Analysis

6.2 Healthcare

6.2.1 Global Synthetic Biology Market For Healthcare Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.2.2 Clinical

6.2.2.1 Global Synthetic Biology Market For Clinical Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.2.2.1.1 Bio/Pharmaceuticals

6.2.2.1.1.1 Global Synthetic Biology Market For Bio/Pharmaceuticals Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.2.2.1.2 Diagnostics

6.2.2.1.2.1 Global Synthetic Biology Market For Diagnostics Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.3 Non-Healthcare

6.3.1 Global Synthetic Biology Market For Non-Healthcare Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.3.1.1 Biotech Crops

6.3.1.1.1 Global Synthetic Biology Market For Biotech Crops Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.3.1.2 Specialty Chemicals

6.3.1.2.1 Global Synthetic Biology Market For Specialty Chemicals Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.3.1.3 Bio-Fuels

6.3.1.3.1 Global Synthetic Biology Market For Bio-Fuels Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

6.3.1.4 Others

6.3.2 Global Synthetic Biology Market For Others Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 7 END-USE BUSINESS ANALYSIS

7.1 Synthetic Biology Market: End-Use Movement Analysis

7.2 Biotechnology And Pharmaceutical Companies

7.2.1 Global Synthetic Biology Market For Biotechnology And Pharmaceutical Companies Estimates And Forecast, 2018 - 2030 (USD Million)

7.3 Academic & Government Research Institutes

7.3.1 Global Synthetic Biology Market For Academic & Government Research Institutes Estimates And Forecast, 2018 - 2030 (USD Million)

7.4 Others

7.4.1 Global Synthetic Biology Market For Others Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 8 REGIONAL BUSINESS ANALYSIS

8.1 Synthetic Biology Market: Regional Movement Analysis

8.2 North America

8.2.1 North America Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.2.2 U.S.

8.2.2.1 U.S. Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.2.2.2 U.S. Synthetic Biology Market Estimates And Forecast, By Technology, 2018

- 2030 (USD Million)

8.2.2.3 U.S. Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.2.2.4 U.S. Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.2.3 Canada

8.2.3.1 Canada Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.2.3.2 Canada Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.2.3.3 Canada Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.2.3.4 Canada Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3 Europe

8.3.1 Europe Synthetic Biology Market Estimates And Forecast, 2017-2028

8.3.2 Uk

8.3.2.1 Uk Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.2.2 Uk Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.2.3 Uk Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.2.4 Uk Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3.3 Germany

8.3.3.1 Germany Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.3.2 Germany Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.3.3 Germany Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.3.4 Germany Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3.4 France

8.3.4.1 France Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.4.2 France Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.4.3 France Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.4.4 France Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3.5 Italy

8.3.5.1 Italy Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.5.2 Italy Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.5.3 Italy Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.5.4 Italy Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3.6 Spain

8.3.6.1 Spain Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.6.2 Spain Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.6.3 Spain Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.6.4 Spain Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.3.7 Russia

8.3.7.1 Russia Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.3.7.2 Russia Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.3.7.3 Russia Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.3.7.4 Russia Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.4 Asia-Pacific

8.4.1 Asia-Pacific Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4.2 China

8.4.2.1 China Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.4.2.2 China Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.4.2.3 China Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.4.2.4 China Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.4.3 Japan

8.4.3.1 Japan Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.4.3.2 Japan Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.4.3.3 Japan Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.4.3.4 Japan Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.4.4 India

8.4.4.1 India Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.4.4.2 India Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.4.4.3 India Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.4.4.4 India Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.4.5 Australia

8.4.5.1 Australia Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.4.5.2 Australia Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.4.5.3 Australia Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.4.5.4 Australia Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.4.6 Singapore

8.4.6.1 Singapore Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.4.6.2 Singapore Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.4.6.3 Singapore Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.4.6.4 Singapore Synthetic Biology Market Estimates And Forecast, By End-Use,

2018 - 2030 (USD Million)

8.5 Latin America

8.5.1 Latin America Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.5.2 Brazil

8.5.2.1 Brazil Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.5.2.2 Brazil Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.5.2.3 Brazil Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.5.2.4 Brazil Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.5.3 Mexico

8.5.3.1 Mexico Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.5.3.2 Mexico Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.5.3.3 Mexico Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.5.3.4 Mexico Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.6 Middle East And Africa

8.6.1 Middle-East And Africa Synthetic Biology Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.6.2 Saudi Arabia

8.6.2.1 Saudi Arabia Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.6.2.2 Saudi Arabia Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.6.2.3 Saudi Arabia Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.6.2.4 Saudi Arabia synthetic biology market estimates and forecast, by end-use, 2018 - 2030 (USD Million)

8.6.3 South Africa

8.6.3.1 South Africa Synthetic Biology Market Estimates And Forecast, By Product, 2018 - 2030 (USD Million)

8.6.3.2 South Africa Synthetic Biology Market Estimates And Forecast, By Technology, 2018 - 2030 (USD Million)

8.6.3.3 South Africa Synthetic Biology Market Estimates And Forecast, By Application, 2018 - 2030 (USD Million)

8.6.3.4 South Africa Synthetic Biology Market Estimates And Forecast, By End-Use, 2018 - 2030 (USD Million)

8.6.4 UAE

8.6.4.1 UAE synthetic biology market estimates and forecast, by product, 2018 - 2030 (USD Million)

8.6.4.2 UAE synthetic biology market estimates and forecast, by technology, 2018 - 2030 (USD Million)

8.6.4.3 UAE synthetic biology market estimates and forecast, by application, 2018 - 2030 (USD Million)

8.6.4.4 UAE synthetic biology market estimates and forecast, by end-use, 2018 - 2030 (USD Million)

CHAPTER 9 COMPANY PROFILE

9.1 BOTA BIOSCIENCES INC.

9.1.1 Company overview

9.1.2 Financial Performance

9.1.3 Product benchmarking

9.1.4 Strategic initiatives

9.2 CODEXIS, INC.

9.2.1 Company overview

9.2.2 Financial Performance

9.2.3 Product benchmarking

9.2.4 Strategic initiatives

9.3 CREATIVE BIOGENE.

9.3.1 Company overview

9.3.2 Financial Performance

9.3.3 Product benchmarking

9.3.4 Strategic initiatives

9.4 CREATIVE ENZYMES.

9.4.1 Company overview

9.4.2 Financial Performance

9.4.3 Product benchmarking

9.4.4 Strategic initiatives

9.5 ENBIOTIX, INC.

9.5.1 Company overview

9.5.2 Financial Performance

- 9.5.3 Product benchmarking
- 9.5.4 Strategic initiatives
- 9.6 EUROFINS SCIENTIFIC
 - 9.6.1 Company overview
 - 9.6.2 Financial Performance
 - 9.6.3 Product benchmarking
 - 9.6.4 Strategic initiatives
- 9.7 ILLUMINA, INC.
 - 9.7.1 Company overview
 - 9.7.2 Financial Performance
 - 9.7.3 Product benchmarking
 - 9.7.4 Strategic initiatives
- 9.8 MERCK KGAA.
 - 9.8.1 SIGMA-ALDRICH CO. LLC
 - 9.8.2 Company overview
 - 9.8.3 Financial Performance
 - 9.8.4 Product benchmarking
 - 9.8.5 Strategic initiatives
- 9.9 NEW ENGLAND BIOLABS.
 - 9.9.1 Company overview
 - 9.9.2 Financial Performance
 - 9.9.3 Product benchmarking
 - 9.9.4 Strategic initiatives
- 9.10 NOVOZYMES
 - 9.10.1 Company overview
 - 9.10.2 Financial Performance
 - 9.10.3 Product benchmarking
 - 9.10.4 Strategic initiatives
- 9.11 PARETO BIO, INC.
 - 9.11.1 Company overview
 - 9.11.2 Financial Performance
 - 9.11.3 Product benchmarking
 - 9.11.4 Strategic initiatives
- 9.12 SCARAB GENOMICS, LLC
 - 9.12.1 Company overview
 - 9.12.2 Financial Performance
 - 9.12.3 Product benchmarking
 - 9.12.4 Strategic initiatives
- 9.13 SYNTHEGO

- 9.13.1 Company overview
- 9.13.2 Financial Performance
- 9.13.3 Product benchmarking
- 9.13.4 Strategic initiatives
- 9.14 SYNTHETIC GENOMICS INC.
 - 9.14.1 Company overview
 - 9.14.2 Financial Performance
 - 9.14.3 Product benchmarking
 - 9.14.4 Strategic initiatives
- 9.15 THERMO FISHER SCIENTIFIC, INC.
 - 9.15.1 Company overview
 - 9.15.2 Financial Performance
 - 9.15.3 Product benchmarking
 - 9.15.4 Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 North America synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 2 North America synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 3 North America synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 4 North America synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 5 North America synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 6 North America synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 7 North America synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 8 U.S. synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 9 U.S. synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 10 U.S. synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 11 U.S. synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 12 U.S. synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 13 U.S. synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 14 U.S. synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 15 Canada synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 16 Canada synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 17 Canada synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 18 Canada synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 19 Canada synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 20 Canada synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 21 Canada synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 22 Europe synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 23 Europe synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 24 Europe synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 25 Europe synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 26 Europe synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 27 Europe synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 28 Europe synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 29 Germany synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 30 Germany synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 31 Germany synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 32 Germany synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 33 Germany synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 34 Germany synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 35 Germany synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 36 France synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 37 France synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 38 France synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 39 France synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 40 France synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 41 France synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 42 France synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 43 UK synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 44 UK synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 45 UK synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 46 UK synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 47 UK synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 48 UK synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 49 UK synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 50 Italy synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 51 Italy synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 52 Italy synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 53 Italy synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 54 Italy synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 55 Italy synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 56 Italy synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 57 Spain synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 58 Spain synthetic biology market, by technology, 2018 - 2030 (USD Million)

- Table 59 Spain synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 60 Spain synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 61 Spain synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 62 Spain synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 63 Spain synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 64 Russia synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 65 Russia synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 66 Russia synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 67 Russia synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 68 Russia synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 69 Russia synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 70 Russia synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 71 Asia Pacific synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 72 Asia Pacific synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 73 Asia Pacific synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 74 Asia Pacific synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 75 Asia Pacific synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 76 Asia Pacific synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 77 Asia Pacific synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 78 China synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 79 China synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 80 China synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 81 China synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 82 China synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 83 China synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 84 China synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 85 Japan synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 86 Japan synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 87 Japan synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 88 Japan synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 89 Japan synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 90 Japan synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

- Table 91 Japan synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 92 India synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 93 India synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 94 India synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 95 India synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 96 India synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 97 India synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 98 India synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 99 Australia synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 100 Australia synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 101 Australia synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 102 Australia synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 103 Australia synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 104 Australia synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 105 Australia synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 106 Singapore synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 107 Singapore synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 108 Singapore synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 109 Singapore synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 110 Singapore synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 111 Singapore synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)
- Table 112 Singapore synthetic biology market, by end-use, 2018 - 2030 (USD Million)
- Table 113 Latin America synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)
- Table 114 Latin America synthetic biology market, by technology, 2018 - 2030 (USD Million)
- Table 115 Latin America synthetic biology market, by application, 2018 - 2030 (USD Million)
- Table 116 Latin America synthetic biology market, by healthcare, 2018 - 2030 (USD Million)
- Table 117 Latin America synthetic biology market, by clinical, 2018 - 2030 (USD Million)
- Table 118 Latin America synthetic biology market, by non-healthcare, 2018 - 2030

(USD Million)

Table 119 Latin America synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 120 Brazil synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 121 Brazil synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 122 Brazil synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 123 Brazil synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 124 Brazil synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 125 Brazil synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 126 Brazil synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 127 Mexico synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 128 Mexico synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 129 Mexico synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 130 Mexico synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 131 Mexico synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 132 Mexico synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 133 Mexico synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 134 MEA synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 135 MEA synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 136 MEA synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 137 MEA synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 138 MEA synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 139 MEA synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 140 MEA synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 141 Saudi Arabia synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 142 Saudi Arabia synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 143 Saudi Arabia synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 144 Saudi Arabia synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 145 Saudi Arabia synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 146 Saudi Arabia synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 147 Saudi Arabia synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 148 South Africa synthetic biology market estimates & forecasts, By Product, 2018 - 2030 (USD Million)

Table 149 South Africa synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 150 South Africa synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 151 South Africa synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 152 South Africa synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 153 South Africa synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 154 South Africa synthetic biology market, by end-use, 2018 - 2030 (USD Million)

Table 155 UAE synthetic biology market, by technology, 2018 - 2030 (USD Million)

Table 156 UAE synthetic biology market, by application, 2018 - 2030 (USD Million)

Table 157 UAE synthetic biology market, by healthcare, 2018 - 2030 (USD Million)

Table 158 UAE synthetic biology market, by clinical, 2018 - 2030 (USD Million)

Table 159 UAE synthetic biology market, by non-healthcare, 2018 - 2030 (USD Million)

Table 160 UAE synthetic biology market, by end-use, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 1 Data triangulation techniques
- Fig. 2 Primary research pattern
- Fig. 3 Market research approaches
- Fig. 4 Value-chain-based sizing & forecasting
- Fig. 5 QFD modeling for market share assessment
- Fig. 6 Market formulation & validation
- Fig. 7 List of data sources
- Fig. 8 Synthetic Biology Market Segmentation
- Fig. 9 Penetration and growth prospect mapping
- Fig. 10 Synthetic biology market driver impact
- Fig. 11 Synthetic biology market restraint impact
- Fig. 12 Synthetic biology market opportunity impact
- Fig. 13 Synthetic biology market challenge impact
- Fig. 14 SWOT Analysis, By Factor (Political & legal Economic and technological)
- Fig. 15 Porter's Five Forces Analysis
- Fig. 16 Synthetic Biology market: Products outlook and key takeaways
- Fig. 17 Synthetic Biology market: Products Movement Analysis
- Fig. 18 Global synthetic biology market for oligonucleotide/oligo pools and synthetic DNA synthetic biology market estimates and forecast 2018 - 2030 (USD Million)
- Fig. 19 Global synthetic biology market for enzymes synthetic biology market estimates and forecast, 2018 - 2030 (USD MILLION)
- Fig. 20 Global synthetic biology market for cloning technologies kits synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 21 Global synthetic biology market for xeno-nucleic acids synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 22 Global synthetic biology market for Chassis Organism Synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 23 Synthetic Biology Market: Technology outlook and key takeaways
- Fig. 26 Global synthetic biology market for PCR Synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 26 Global synthetic biology market for genome editing synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 27 Global synthetic biology market for NGS synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 28 Global synthetic biology market for bioprocessing technology synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 29 Global synthetic biology market for others synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 30 Synthetic Biology market: Application outlook and key takeaways

Fig. 32 Synthetic Biology Market: Application Movement Analysis

Fig. 33 Global synthetic biology market for healthcare synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 31 Global synthetic biology market for clinical synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 32 Global synthetic biology market for bio/pharmaceuticals synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 33 Global synthetic biology market for diagnostics synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 34 Global synthetic biology market for non-healthcare synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 35 Global synthetic biology market for biotech crops synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 36 Global synthetic biology market for specialty chemicals synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 37 Global synthetic biology market for bio-fuels synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 38 Global synthetic biology market for others synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 39 Synthetic biology market: End-use outlook and key takeaways

Fig. 40 Synthetic Biology Market: End-use Movement Analysis

Fig. 41 Global synthetic biology market for biotechnology and pharmaceutical companies estimates and forecast, 2018 - 2030 (USD Million)

Fig. 42 Global synthetic biology market for academic and government research institutes estimates and forecast, 2018 - 2030 (USD Million)

Fig. 43 Global synthetic biology market for others estimates and forecast, 2018 - 2030 (USD Million)

Fig. 47 Global Synthetic Biology Market: Regional Outlook and Key Takeaways

Fig. 48 Global synthetic biology market: Regional movement analysis

Fig. 50 North America synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 51 U.S. synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 52 Canada synthetic biology market estimates and forecast, 2018 - 2030 (USD

Million) Million)

Fig. 53 Europe synthetic biology market estimates and forecast, 2018 - 2030 (USD Million) Million)

Fig. 54 UK synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 55 Germany synthetic biology market estimates and forecast, 2018-2028 (USD Million)

Fig. 56 France synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 57 Italy synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 58 Spain synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 59 Russia synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 60 Asia-Pacific synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 61 China synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 62 Japan synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 63 India synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 64 Australia synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 65 Singapore synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 66 Latin America Synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 67 Brazil synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 68 Mexico synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 69 MEA synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

Fig. 70 Saudi Arabia synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 71 South Africa synthetic biology market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 72 UAE synthetic biology market estimates and forecast 2018 - 2030 (USD Million)

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