

# Synthetic Biology Market Size & Share to Reach \$78.6 Billion Billion, Globally, by 2030 at 28.08% CAGR | VMR

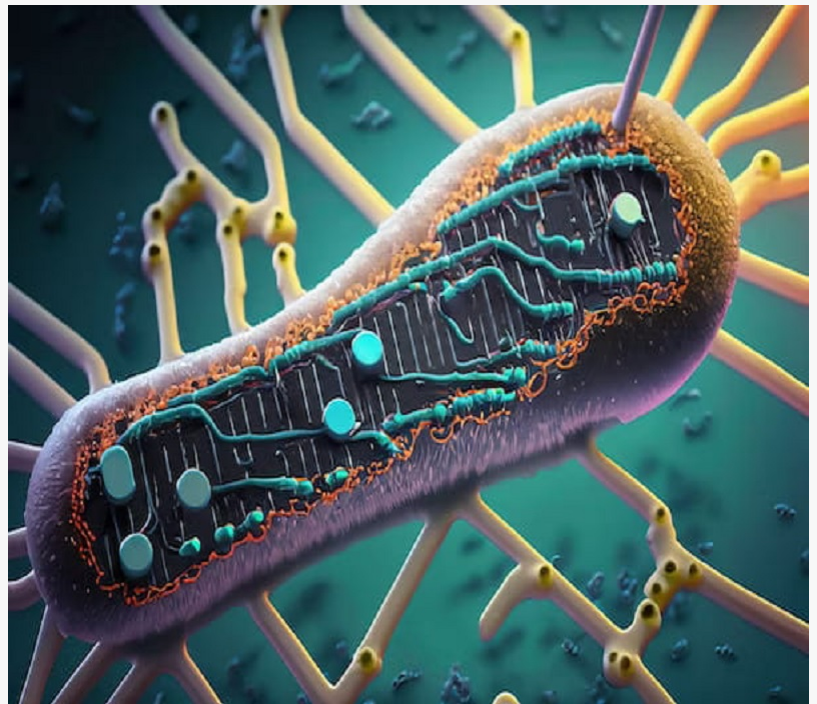
*The Growing Synthetic Biology Market Size & Share: Innovation, Trends, and Future Outlook 2024-2032*

224 W 35TH ST STE 500, NY, UNITED STATES, October 7, 2024

/EINPresswire.com/ -- The Report by Vantage Market Research Indicates That the Global [Synthetic Biology Market](#) Reached Usd 13.9 billion in 2023 And Is Projected to Reach Usd 78.6 billion by 2030, Representing A Cagr Of 28.08% Between 2024 And 2030.

## Key Takeaways:

- In 2023, North America led the market with the highest revenue share at 45.9%.
- The technology segment held the largest market share of 54.3% in 2023, representing a significant lead in the synthetic biology market.
- The Medical segment held the largest market share of 46.8% in 2023, leading the Synthetic Biology market.
- The funding for research and development in synthetic biology has increased in response to the growing threat of viruses, pollution, and climate change.
- Synthetic biology techniques have previously been applied to the creation of human cells for the treatment of disease and the manipulation of bacterial metabolism for the production of important industrial chemicals.
- The use of crude oil and gas in almost every economy, also known as conventional petroleum,



Synthetic Biology Market



Synthetic Biology Market Size & Share to Surpass US\$78.6 Billion Billion by 2030"

*Vantage Market Research*

represents a significant challenge in addressing climate change.

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<https://www.vantagemarketresearch.com/synthetic-biology-market-1255/request-sample>

(Please Note: That a Sample of This Report Is Available Upon Request)

Our Complimentary Sample Reports Include:

- The Report Includes an In-Depth Industry Analysis, An Introduction, An Overview, And Information About the Impact of The Pandemic.
- The Report, Which Is Over 170+ Pages Long, Includes the Latest Research.
- Please Contact Us for Chapter-Wise Guidance.
- 2023 Update: Regional Analysis with Graphical Representation of Trends, Size, And Share. Includes Updated List of Figures and Tables.
- The Updated Report Includes Profiles of Major Market Players, Along with Their Sales Volumes, Business Strategies, And Revenue Analyses, Which Have Been Conducted Using Vantage Market Research Methodology.

Synthetic Biology Is a Scientific Research Area Focused on The Redesign of Organisms for Useful Purposes Through the Engineering of New Abilities. Synthetic Biology Researchers and Companies Around the World Are Leveraging the Power of Nature to Address Challenges in Medicine, Manufacturing, And Agriculture. This Technology Allows Life Technologies to Rapidly Design, Synthesize, Test, And Deploy Antigens and Variants with High Expression and Capacity. Furthermore, It Allows Life Technologies to Develop Immunogens That Are Specifically Designed to Be Effective and To Create Rapid Assays for The Purification of These Immunogens.

The Report Provides a Comprehensive Analysis of The Key Market Segments, Evolving Market Trends, Value Chain, Strategic Investment Opportunities, Competitive Landscape, And Regional Market Dynamics. The Report Is an Invaluable Resource for Market Leaders, Investors, New Entrants, And Other Stakeholders Seeking to Develop New Strategies and Strengthen Their Market Position. The Report, titled "Synthetic Biology Market by Product (Core Products, Enabling Products, Enabled Products), By Applications (Healthcare, Chemicals (Including Bio-Fuels), Food and Agriculture, Other Applications (Biosecurity)), By Region (North America, Europe, Asia Pacific, Latin America) - Global Industry Assessment (2019 - 2023) & Forecast (2024 - 2032)," Provides A Comprehensive Analysis of The Global Synthetic Biology Market.

Market Overview:

The Synthetic Biology Market Is Experiencing a Period of Growth Driven by An Increase in Research and Development Funding and The Emergence of New Initiatives Focused on The Development Of Synthetic Biological Products.

Synthetic Biology Is a New and Rapidly Evolving Field That Applies Engineering Principles to Biological Systems. The Objective of This Technology Is to Redesign and Fabricate Biological Components and Systems That Do Not Already Exist in The Natural World. Advancements In Dna Synthesis Have Made It Possible for Scientists to Design and Synthesize Modified Bacterial Chromosomes for Use in The Production of Advanced Biofuels, Bio-Products, Renewable Chemicals, Bio-Based Specialty Chemicals, And Food Ingredients. Major Manufacturing Companies Are Currently Investing Significant Resources in The Development of Synthetic Biology Technology, Which Is Expected to Yield Substantial Results and Drive Market Growth in The Future.

List of Prominent Players in the Synthetic Biology Market:

- Thermo Fisher Scientific, Inc. (US)
- Merck KGaA (Germany)
- Agilent Technologies, Inc. (US)
- Novozymes A/S (Denmark)
- Ginkgo Bioworks (US)
- Amyris (US)
- Precigen, Inc. (US)
- GenScript (China)
- Twist Bioscience (US)
- Synthetic Genomics (US)
- Codexis (US)
- Synthego (US)
- Creative Enzymes (US)
- Eurofins Scientific (Luxembourg)

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- Analyst Support: Should You Require Further Clarification Before or After Purchasing the Report, Please Do Not Hesitate to Contact a Professional Analyst.
- We Guarantee the Quality of Our Products and Services. Our Primary Objective Is to Ensure the Accuracy and Quality of Our Reports.
- Our Analysts Possess Unparalleled Skills. Analysts Offer Comprehensive Insights into The Content of Their Reports.

The Following Are the Key Trends:

- In 2023, The Technology Category Is the Market Leader and Is Expected to Maintain Its Position of Strength in The Coming Years.
- In 2023, The Medical Category Accounted for A Significant Portion of The Market. Furthermore, The Medical Category Is Expected to Experience the Most Rapid Growth Over the Forecast Period.
- In 2023, The North American Market Accounted for A Significant Portion of The Total Market Share.

The Increasing Number of Challenges in Synthetic Biology Manufacturing Systems Is Set to Slow Down the Synthetic Biology Market.

In Contrast to Other Modern Engineering Disciplines, The Design Process for Synthetic Biology Is Less Predictable. As A Result, Synthetic Biologists Have Been Striving to Make the Process More Systematic, Given the Increasing Number of Trial-and-Error Steps Involved. Furthermore, The Process Is Time-Consuming, And the Resulting Efforts May Not Meet Expectations. Another Challenge for Biologists Is That the Construction of Biological Systems Is Complex and Unpredictable. Notwithstanding These Challenges, Synthetic Biologists Have Achieved Significant Progress. For Example, Researchers Have Developed a System for Calculating Certain Biological Events Using Advanced Methods. Moreover, Some Systems Have Progressed from Bacterial Cells to More Complex Cells. Nevertheless, The Large-Scale Practical Application of Synthetic Biology Is Still a Work in Progress.

Key Insights and Findings from The In-Depth Report:

- It Is Anticipated That the Synthetic DNA Sub-Segment Will Lead the Growth of The Synthetic Biology Market, With A Substantial Compound Annual Growth Rate (CAGR). The Growth Is Attributed to An Extensive Market Penetration Rate, Driven by The Widespread Use of This Product in Research and Development (R&D) And Its Higher Level of Commercialization Compared to Other Product Segments.
- In 2021, The Gene Synthesis Technology Segment Accounted for A Significant Share of The Synthetic Biology Market, Driven by Growing Demand for Synthetic DNA And Synthetic RNA.
- North America Represents the Largest Regional Segment. The Market Growth in The Region Is Attributed to The Increase in The Number of Well-Established Synthetic Biology Companies and Research Institutes in The Region.

Read Full Research Report @ <https://www.vantagemarketresearch.com/industry-report/synthetic-biology-market-1255>

The Report on The Synthetic Biology Market Makes the Following Key Points:

- The Market Assessment
- Our Premium Insights

- Competitive Landscape
- A Detailed Analysis of The Impact of The Pandemic on The Market.
- A Value Chain Analysis Will Be Provided.
- Historical Data, Estimates, And Forecasts Are Provided for Your Reference.
- Company Profiles
- Porter's Five Forces Analysis
- Global And Regional Dynamics

The Following Analysis Examines the Impact of The Coronavirus Disease 2019 (Covid-19) Pandemic on The Business Sector.

The Global Spread of The Novel Coronavirus (2019-Ncov) Has Had a Significant Impact on A Range of Industries Worldwide. The Synthetic Biology Market Also Experienced a Significant Impact. In Response to The Rapid Spread of The Virus, Governments Worldwide Took Decisive Action, Including Sealing Borders, Implementing Lockdowns, And Enforcing Strict Social Distancing Measures. The Aforementioned Actions Have Had a Significant Negative Impact on The Global Economy, With Ramifications for A Number of Industries. Furthermore, The Decline in Manufacturing Activities Has Resulted in A Reduction in Demand for Synthetic Biological Technology on A Global Scale. In Estimating the Current and Forecast Market Size and Growth Trends for All Regions and Countries, The Impact of The Pandemic on Market Demand Is Considered. The Following Data Points Are Used to Inform This Estimation:

- 1. Impact Assessment of COVID-19 Pandemic
  - i. North America
  - ii. Europe
  - iii. Asia Pacific
  - iv. Latin America
  - v. Middle East & Africa
- 2. Quarterly Market Revenue Forecast by Region 2020 & 2021
- 3. Key Strategies Undertaken by Companies to Tackle COVID-19
- 4. Long Term Dynamics
- 5. Short Term Dynamics

Regional Analysis:

The Synthetic Biology Market in North America Is Experiencing a Period of Accelerated Growth.

In 2023, North America Represented the Largest Share of The Synthetic Biology Market. The Significant Contribution of This Region to The Global Synthetic Biology Market Can Be Attributed to Factors Such as The Rising Prevalence of Pressure Injuries Worldwide. The Asia-Pacific Region Is Expected to Experience the Fastest Growth During the Forecast Period. This Is Due to The High Number of Well-Established Synthetic Biology Companies and Research Institutes in The US And Canada, As Well As the Numerous Ongoing Research Studies and The Expansion of The Global

Healthcare Sector. These Factors Are Expected to Contribute to The Growth of This Market. The Significant Investment of Key Players In R&D Is Also a Contributing Factor to The Growth of The Synthetic Biology Market in This Region.

We Help Our Clients to Gain a Competitive Advantage In A Market Space By Offering Consulting Services That Include-But Are Not Limited To:

- Digital Business Strategy
- Customer Acquisition and Synergy Planning
- Strategic Advisory and Operational Excellence Consulting Services
- Governance, Risk, Fraud, And Compliance Consulting
- Mergers and Acquisitions, Strategic Partnering
- Business Process and Transformation Consulting Services
- Talent and Engagement Consulting Services
- Business and Transformation Consulting
- Market Expansion and Vertical Tagging

Browse market data Tables and Figures spread through 173 Pages and in-depth TOC on "Synthetic Biology Market by Product (Core Products, Enabling Products, Enabled Products), by Applications (Healthcare, Chemicals (Including Bio-Fuels), Food and Agriculture, Other Applications (Biosecurity), by Region (North America, Europe, Asia Pacific, Latin America) - Global Industry Assessment (2019 - 2022) & Forecast (2023 - 2030)" View detailed Research Report here - <https://www.vantagemarketresearch.com/press-release/synthetic-biology-market-895549>

This market titled "Synthetic Biology Market" will cover exclusive information in terms of Geographic Segmentation, Regional Analysis, Forecast, and Quantitative Date – Units, Key Market Trends, and various others as mentioned below:

#### By Type

- Tools
  - o Oligonucleotides and Synthetic DNA
  - o Enzymes
  - o Cloning Technologies Kits
  - o Synthetic Cells
  - o Chassis Organisms
  - o Xeno-nucleic Acids
  
- Technology
  - o Gene Synthesis
  - o Genome Engineering
  - o Sequencing
  - o Bioinformatics



- o Site-directed mutagenesis
- o Cloning
- o Measurement and Modelling
- o [Microfluidics](#)
- o [Nanotechnology](#)

#### By Application

- Medical
- Industrial
- Food and Agriculture
- Environmental

#### By Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East & Africa

#### Some of The Key Questions from Our Customers Are:

- Which are the top companies in the market?
- How will the market change in the next years?
- What are the drivers and restraints of the market?
- Which regional market will show the highest growth?
- What will be the CAGR and size of the market throughout the forecast period?
- Which area offers the most significant benefit for the world market?
- What are the threats to business and the impact of the current scenario on growth and market perception?
- What are the likely advanced scenarios and maximum incentive to see movement by application, type, and region?

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Eric Kunz

Vantage Market Research

+1 877-462-2282

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