

Synthetic Biology Market Report: Trends, Forecast and Competitive Analysis

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Abstracts

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The future of the synthetic biology market looks promising with opportunities in the environmental, medical, industrial, and food and agricultural applications. The global synthetic biology market is expected to grow with a CAGR of 8% from 2019 to 2024. The major growth drivers for this market are advancement in genome engineering such as CRISPR and DNA synthesis technologies will reduce the risks from cancer, increasing involvement of government bodies, research institutes, and large-scale organizations in synthetic biology research activities.

An emerging trend, which has a direct impact on the dynamics of the industry, includes biomonitoring for engineering highly specific and tiny biosensors to spot an enormous range of molecules such as hydrocarbon pollutants, sugars, heavy metals, and antibiotics in environmental sensing systems.

A total of 157 figures / charts and 132 tables are provided in this 186-page report to help in your business decisions. Sample figures with insights are shown below. To learn the scope of benefits, companies researched, and other details of synthetic biology market report, download the report brochure.

The study includes a trend and forecast for the global synthetic biology market by application, product type, technology and region as follows:

By Application [\$M shipment analysis for 2014 – 2025]:

Environmental

Medical

Industrial

Food and Agricultural

By Product Type [\$M shipment analysis for 2014 – 2025]:

Core Products

Enabling Products

Enabled Products

By Technology [\$M shipment analysis for 2014 – 2025]:

Nucleotide synthesis and sequencing

Bioinformatics

Microfluidics

Genetic Engineering

By Region [\$M shipment analysis for 2014 – 2025]:

North America

United States

Canada

Mexico

Europe

Germany

France

U.K

Italy

Asia Pacific

China

India

Japan

The Rest of the World

Some of the synthetic biology companies profiled in this report include Amyris Inc, GenScript, Integrated DNA Technologies, OriGene Technologies Inc, ATUM, Synthetic Genomics Inc, Pareto Biotechnologies Inc, Intrexon Corporation, and Blue Heron Biotech.

Lucintel forecasts that core products will remain the fastest growing product type over the forecast period due to strong applications outlook for synthetic genes, synthetic DNA parts, chassis organisms and synthetic cells across pharmaceuticals and diagnostics field.

Within synthetic biology market, environmental, medical, industrial, and food and agricultural are the major applications. Medical segment will remain the largest application due to extensive research on new and better treatments, availability of huge funding for the discovery of novel therapies, and increasing number of healthcare and life science facilities.

North America will remain the largest market over the forecast period due to increasing demand for bio-based products, increased investments in synthetic biology companies, and rising R&D funding for synthetic biology.

Features of the Global Synthetic Biology Market

Market Size Estimates: Global synthetic biology market size estimation in terms of value (\$M) shipment.

Trend and Forecast Analysis: Market trends (2014-2019) and forecast (2020-2025) by various segments.

Segmentation Analysis: Global synthetic biology market size by various segments, such as application, product type, and technology in terms of value.

Regional Analysis: Global synthetic biology market breakdown by the North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different application, product type, technology and regions for the global synthetic biology market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the global synthetic biology market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

This report answers following key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global synthetic biology market by application (Environmental, Medical, Industrial, and Food and Agricultural), by product type (Core Products, Enabling Products, and Enabled Products), technology (Nucleotide synthesis and sequencing, Bioinformatics, Microfluidics, and Genetic Engineering), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are emerging trends in this market and the reasons behind them?

Q.7 What are some changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

Report Scope

Key Features Description

Base Year for Estimation 2019

Trend Period

(Actual Estimates) 2014-2019

Forecast Period 2020-2025

Pages More than 150

Market Representation / Units Revenue in US \$ Million

Report Coverage Market Trends & Forecasts, Competitor Analysis, New Product Development, Company Expansion, Merger Acquisitions & Joint Venture, and Company Profiling

Market Segments By Application (Environmental, Medical, Industrial, and Food and Agricultural), By Product Type (Core Products, Enabling Products, and Enabled Products), By Technology (Nucleotide synthesis and sequencing, Bioinformatics, Microfluidics, and Genetic Engineering)

Regional Scope North America (The United States, Mexico, Canada), Europe (Germany, France, U.K. and Italy), Asia Pacific (China, India, and Japan), and RoW

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