

# **Synthetic Biology Market By Products(Synthetic DNA, Synthetic genes, Software tools, Synthetic cells, Chassis organisms), and Technology (Genetic Engineering, Bioinformatics, Microfluidics) - Global Opportunity Analysis and Industry Forecast, 2014 - 2020**

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## **Abstracts**

Synthetic biology is a novel area of research that is the amalgamation of multiple disciplines such as molecular biology, biotechnology, biophysics and genetic engineering among others. There are chiefly two approaches used in synthetic biology namely, top down approach and bottom up approach. Top-down approach involves the re-design and fabrication of existing biological systems for producing synthetic products. Bottom-up approach involves designing and construction of de novo biological systems or devices that do not exist in nature. An impending need to understand the functioning of genetic elements, cells and biological processes has led to the emergence of synthetic biology. Synthetic biology products are used across many industries, including pharmaceutical & diagnostics, energy, bioplastics and environment.

World synthetic biology market was valued at \$ 5,245.7 million in 2015, growing at a CAGR of 23% during the forecast period. Assistance from government and private organizations, rising number of synthetic biology research entities and declining cost of DNA sequencing & synthesizing are the major factors driving the market growth. On the contrary, bio-safety & bio-security issues, would hinder the market growth. The issues related to the misuse of synthetic biology or possibilities of accidental release of pathogens into free atmosphere would remain as a key challenge worldwide. However, rising demand for bio-fuels, growing awareness in emerging economies and rising R&D investments for synthetic drugs and vaccines would offer lucrative opportunities in the market.

Based on geography, the market is segmented across North America, Europe, Asia-Pacific and LAMEA regions. In 2015, Europe was the leading geography in terms of revenue generation followed by North America. Further, Europe would continue to maintain its lead position through 2020 owing to constant support from European government and private organizations, establishment of small start-ups and investment by leading companies especially in the biofuel segment. Asia Pacific is projected as the fastest growing market owing to increasing number of research entities. The report provides a comprehensive analysis of the leading companies operating in the world synthetic biology market. Key companies profiled in the report are Thermo Fischer Scientific, GenScript, DNA2.0, Integrated DNA technologies, Eurofins Scientific, Inc., Origene technologies, Scientific genomics Inc. Editas Medicine, Inc., Pareto Biotechnologies, Blue heron, TeselaGen, Twist biosciences, Syntrox Inc., and others.

### Key Benefits

This report provides an extensive analysis of the current and emerging market trends and dynamics in the world synthetic biology market.

The report provides a detailed analysis of the current market and estimations during 2014-2020, which would enable the stakeholders to capitalize on the prevailing market opportunities.

The synthetic biology market scenario has been comprehensively analyzed in accordance to key geographical regions.

The key market players operating in the market have been profiled in the report, and their strategies have been thoroughly analyzed to understand the competitive outlook of the market.

Competitive intelligence highlights the business practices followed by leading market players across geographies.

SWOT analysis enables to study the internal environment of the leading companies for strategy formulation

## **KEY MARKET SEGMENTS: THE WORLD SYNTHETIC BIOLOGY MARKET IS SEGMENTED AS:**

## By Products

Synthetic DNA

Synthetic oligos

Synthetic genes

Software tools

Chassis organisms

Synthetic clones

Synthetic cells

## By Technology

Nucleotide synthesis and sequencing

Bioinformatics

Microfluidics

Genetic engineering

## By Application

Pharmaceuticals and diagnostics

Chemicals

Biofuels

Bioplastics

Others (Environment, agriculture & aquaculture)

## By Geography

North America

Europe

Asia Pacific

LAMEA

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