

Global Synthetic Biology Market is segmented by The Synthetic Biology Market has been segmented by Product (Core Products and Enabling Products, Enabled products), Application (Healthcare, Chemicals (Including Bio-Fuels), Food and Agriculture, Other Applications (Biosecurity, Energy, and Environment)), Regional Forecasts 2021-2027

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Abstracts

Global Synthetic Biology Market is valued approximately at USD 32.40 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 19.23% over the forecast period 2021-2027. Synthetic biology is an interdisciplinary field that includes the application of engineering concepts to biology. Its primary goal, in comparison to other fields of Science and Technology, is to (re-)design and create biological components and systems that do not previously exist in nature. Researchers combine a chemical synthesis of DNA with improved genomics understanding to enable the rapid production of changed DNA sequences and their integration into two genomes. Synthetic biology's effective application offers the potential to solve problems in health, manufacturing, and agriculture. Synthetic biology market is driven by the key factors such as Declining Cost of DNA Sequencing and Synthesizing and Increasing Support from Government and Private Institutions. For instance, According to a research article titled 'Synthetic Biology's Role in Fighting COVID-19' published in MolecularCloud in 2020, synthetic biology addresses the need for vaccine development during the COVID-19 pandemic. Drug discovery scientists can use synthetic biology to produce DNA fragments, clones, or entire variant libraries. However, Bio-safety and Bio-security, may impede market growth over the forecast period of 2021-2027.

North America is projected to hold the largest market share in the synthetic biology

market due to factors, such as the increasing demand for bio-based products, increased investments in synthetic biology companies, and rising R&D funding for synthetic biology. The United States is a significant contributor to research in the domains of drug discovery, genomics, and proteomics structure prediction, and will shortly be in the region, increasing the synthetic biology market's growth.

Major market player included in this report are:

Integrated DNA Technologies Inc.

Amyris Inc.

Precigen, Inc

Thermo Fisher Scientific Inc.

New England Biolabs Inc

Koninklijke DSM N.V.

Du Pont De Nemours and Company

Novozymes A/S

Synthetic Genomics Inc.

Genscript

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Core Products

Enabling Products

Enabled Products

By Application:

Healthcare

Chemicals (Including Bio-Fuels)

Food and Agriculture

Other Applications (Biosecurity, Energy, and Environment)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027.

Target Audience of the Global Synthetic Biology Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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