

**Microbiome Sequencing Market By Technique (Shotgun sequencing, RNA sequencing, Targeted gene sequencing, Whole genome sequencing, Others), By Research (Outsourced, Internal), By End user (Pharmaceutical and biotechnological companies, Academic institutes and research centers): Global Opportunity Analysis and Industry Forecast, 2021-2031**

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**Report description:**

The microbiome sequencing market size was valued for \$859.42 million in 2021 and is estimated to reach \$3,417.09 million by 2031, exhibiting a CAGR of 14.8% from 2022 to 2031. □

Microbiome sequencing is a technique used for decoding the genetic material of all the bacteria, viruses, fungi, and protists in a sample. In addition, microbial sequencing is essential as microbiome is the key to illuminate the structure and functions of specific microbial communities, which is particularly important because many human diseases are linked to the alternation of human microbiome composition. Sequencing of bacterial genomes has significantly improved understanding of bacterial phylogeny and taxonomy. The microbial sequencing allows the detection of variations within the target genomes and interpretation of genetic material in bacteria, virus, fungi, and protists present in the sample. □

The driving factors for microbiome sequencing market are use of microbiome sequencing in early disease diagnosis and utilization of this technology in development of personalized medicines for various diseases. For instance, according to article published in Frontiers in Cellular and Infection Microbiology 2021, understanding of the microbiome in pancreatic cancer patients, as well as its manipulation helps in diagnosis and treatment of pancreatic cancer. Further, new therapeutic approaches, called personalized medicine, have opened a new window in medical science, which drives the growth of market. The association between the microbiome and personalized medicine appears to be one of the most interesting aspects of the subsequent research and has a crucial perspective on the treatment of diseases such as cancer and infectious disease. In addition, rise in use of microbiome sequencing in genomics, proteomics, and metabolomics is anticipated to drive the growth of market. □

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However, factor such as the lack of skilled persons in the operating system of microbiome sequencing restrains the growth of microbiome sequencing market. In addition, stringent rules, and regulations by the governments for microbiome sequencing, also might hinder the growth of market.□

The microbiome sequencing market is segmented into technique, research, end user, and region. By technique, the market is categorized into shotgun sequencing, RNA sequencing, targeted gene sequencing, whole-genome sequencing, and others. On the basis of research, the market is segregated into outsourced and internal. On the basis of end user, the market is classified into pharmaceutical & biotechnology companies and Academic Institutes & Research centers. Region wise, the market is analyzed across North America (the U.S., Canada, and Mexico), Europe (Germany, France, the UK, Italy, Spain, and rest of Europe), Asia-Pacific (Japan, China, Australia, India, South Korea, and rest of Asia-Pacific), and LAMEA (Brazil, South Africa, Saudi Arabia, and rest of LAMEA).□

Major Key players that operate in the global microbiome sequencing market are Baseclear BV, Charles River Laboratories International, Inc., Clinical Microbiomics, CosmosID, Microbiome Insights, Molecular Research LP, Novogene Co., Ltd., OraSure Technologies (Diversigen), Resphera Biosciences Llc and Zymo Research Corporation.□

#### Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the microbiome sequencing market analysis from 2021 to 2031 to identify the prevailing microbiome sequencing market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the microbiome sequencing market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global microbiome sequencing market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Technique

- Shotgun sequencing
- RNA sequencing
- Targeted gene sequencing
- Whole genome sequencing
- Others

##### By Research

- Outsourced
- Internal

##### By End user

- Pharmaceutical and biotechnological companies
- Academic institutes and research centers

##### By Region

- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - Germany
  - UK

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- France
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
- Japan
- China
- India
- Australia
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Microbiome Insights
- □Clinical Microbiomics
- Baseclear BV
- CosmosID
- □Novogene Co., Ltd.□
- Zymo Research Corporation
- Resphera Biosciences, LLC
- OraSure Technologies (Diversigen)
- Molecular Research LP
- Charles River Laboratories International, Inc.

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