

Human Microbiome Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Product (Prebiotics, Probiotics, Medical Food, Supplements, Others), By Application (Therapeutic, Diagnostic), By Disease (Infectious Disease, Endocrine and Metabolic Disorders, Gastrointestinal Diseases, Cancer, Others), By Technology (Genomics, Proteomics, Metabolomics), By Type (FMT, Peptide, Live Biotherapeutic Product, Others), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

Global Human Microbiome market was valued at USD 615.25 Million in 2024 and is expected to reach USD 1524.05 Million by 2030 with a CAGR of 16.28%. The Global Human Microbiome Market is experiencing a significant transformation, fueled by growing scientific recognition of the microbiome's impact on human health and disease, along with increasing investments from pharmaceutical and biotechnology firms. This market encompasses the development of diagnostics, therapeutics, and healthcare solutions aimed at leveraging or modifying the human microbiota comprising trillions of microorganisms that inhabit the human body for improved medical outcomes.

Key Market Drivers

Increased Application in Cancer Treatment

Research has demonstrated that the human microbiome plays a crucial role in modulating immune responses, which directly impacts the efficacy of immunotherapies and chemotherapy. Certain gut microbiota strains have been found to enhance the effectiveness of immune checkpoint inhibitors, leading to improved patient outcomes. Biotech firms and pharmaceutical companies are investing in microbiome-derived drugs that can be used as adjunct therapies to traditional cancer treatments. These therapies aim to reduce treatment-related toxicity, improve drug absorption, and enhance immune system resilience.

The surge in clinical trials exploring microbiome-based interventions for cancer treatment is accelerating market growth. Studies are investigating how gut microbiota composition influences cancer progression and response to therapy. Rajiv Gandhi Cancer Institute and Research Centre (RGCIRC) has established itself as a premier clinical trial site, earning recognition from leading global cancer research institutions and pharmaceutical companies. With a track record of participation in over 300 national and international clinical trials, the center plays a pivotal role in advancing oncology research and innovative cancer therapies across diverse cancer types. Leading biotech firms and research institutions are forming strategic partnerships to develop microbiome-based cancer solutions. Increased funding from government agencies and private investors is driving innovation in microbiome therapeutics.

The integration of microbiome profiling into precision oncology is enabling personalized treatment plans tailored to individual patients. AI-driven microbiome analysis is helping identify biomarkers that predict cancer treatment responses. Regulatory bodies are recognizing the potential of microbiome-based therapies, leading to faster approvals and standardization efforts. The market is witnessing expansion into emerging economies, where cancer prevalence is rising.

Key Market Challenges

Scientific Complexity and Limited Understanding of Microbiome Functions

One of the most fundamental challenges impeding market growth is the incomplete and complex understanding of the human microbiome's structure, function, and interactions with host physiology. Despite major research advancements, scientists still face difficulties in: Differentiating between beneficial, neutral, and harmful microbes, Understanding causal relationships between microbiome imbalances and specific diseases, Establishing universal biomarkers or reference ranges for "healthy"

microbiota.

This scientific uncertainty limits the ability of researchers and companies to design effective, targeted, and reproducible microbiome-based therapies. Moreover, it complicates clinical trial design and makes it harder to validate efficacy, slowing product development and investor confidence.

Key Market Trends

Shift Toward Personalized Microbiome-Based Therapies

The most significant trends fueling market growth is the rapid evolution of personalized medicine powered by microbiome insights. As scientific understanding of the human microbiome deepens, it is becoming increasingly clear that microbial compositions vary significantly across individuals. This has led to a paradigm shift from generalized probiotic or therapeutic approaches toward personalized microbiome interventions, including: Tailored probiotics and synbiotics based on individual gut flora, Microbiome profiling and diagnostics to guide treatment decisions, Customized dietary recommendations to optimize gut health and disease prevention.

This trend aligns with the broader healthcare movement toward precision medicine, offering more effective, safer, and targeted interventions. As genomic sequencing and microbiome mapping technologies become more accessible and affordable, personalized microbiome-based therapies are poised to redefine patient care.

Key Market Players

Enterome Bioscience SA

Yakult Honsha Co. Ltd.

4 D Pharma

Evelo Biosciences

Seres Therapeutics Inc.

Vedanta Biosciences

Second Genome Inc.

Quantibiome

Rebiotix Inc.

Microbiome Therapeutics LLC

Report Scope:

In this report, the Global Human Microbiome Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Human Microbiome Market, By Product:

Prebiotics

Probiotics

Medical Food

Supplements

Others

Human Microbiome Market, By Application:

Therapeutic

Diagnostic

Human Microbiome Market, By Disease:

Infectious Disease

Endocrine and Metabolic Disorders

Gastrointestinal Diseases

Cancer

Others

Human Microbiome Market, By Technology:

Genomics

Proteomics

Metabolomics

Human Microbiome Market, By Type:

FMT

Peptide

Live Biotherapeutic Product

Others

Human Microbiome Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Human Microbiome Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Product (P...

Human Microbiome Market.

Available Customizations:

Global Human Microbiome market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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