

Human Microbiome Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The human microbiome market is valued at USD 599 million in the current year and is expected to witness a CAGR of 15.04% during the forecast period.

The human microbiome has become an area of interest in recent times because of its association with several respiratory diseases and immunity. The gut microbiome has been known to be associated with good immunity. Researchers have reported that variation in the number of microorganisms, such as actinobacteria, firmicute, and Bacteroidetes, leads to the development of lung, respiratory and other disorders. For instance, in April 2020, Persephone Biosciences Inc. started developing an immune-boosting microbiome therapeutic to help prevent and fight the novel coronavirus (SARS-CoV-2) and a potential stool-based diagnostic test designed to help predict which patients are at the highest risk for developing severe complications and mortality after suffering COVID-19. Thus, increasing research studies on the microbiome are the key drivers affirming the growth of this market. The pandemic has created awareness about microbiota therapeutics and diagnosis; thus, the market is expected to follow the same trend even during the post-pandemic period.

Other key factors propelling the growth of this market are the increasing burden of lifestyle-related diseases and the growing geriatric population. For instance, as per the International Diabetes Federation 2021, statistics, there are 52.7 million people aged 20-79 years in Europe having diabetes, and this number is expected to reach 69 million by the year 2045. Increased gut microbial diversity, along with specifically more butyrate-producing bacteria, benefitting insulin resistance and risk of type 2 diabetes, increases the burden of lifestyle diseases such as diabetes, and is expected to drive the growth of the market over the forecast period.

Increasing funding initiatives and government programs to support this research are high-impact rendering drivers anticipated to

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foster market growth. For instance, as per the National Institute of Health, in May 2022, the Federal Government of the United States incurred USD 864 million on research and development of the microbiome in 2021 and is expected to spend USD 903 million in 2022. Such investment by the government is propelling the growth of the market over the forecast period. However, a lack of comprehensive research and stringent government regulations are likely to limit the market growth over the forecast period.

Human Microbiome Market Trends

Therapeutic Applications Expected to Hold the Considerable Share in the Studied Market Over the Forecast Period

Microbiome therapeutics found a broad range of applications in COVID-19, Inflammatory Bowel Disease (IBD), *C. difficile* infections, Crohn's disease, and diabetes. The factors, such as rising research activities undertaken by research institutes and market players for finding more therapeutic applications of the human microbiome, coupled with the rising burden of diseases, are contributing to the market segment's growth.

The increasing research studies are expected to boost the market segment's growth. For instance, as per clinical trials. gov, the University of Zurich investigated the microbiota in COVID-19 patients for future preventive and therapeutic approaches (MICRO-COV). The study was started in April 2020 and is expected to be completed by December 2023. The positive results from such studies could lead to the development of new products and thus may drive the market segment's growth in the future.

Additionally, an article published in *Frontiers in Microbiology Journal* in June 2021 reported that human gastrointestinal microbiome research could deliver critical clinical and therapeutic development if it shifts toward mechanistic studies. It also suggested that the development of more efficacious and targeted treatments relies on identifying causal links between the microbiome and disease, with future progress dependent on effective links between state-of-the-art sequencing approaches, computational analyses, and experimental assays. Such studies drive the growth of the market.

The agreements and collaborations also boost market segment growth among the market players to strengthen their position in the market. For instance, in July 2021, Seres Therapeutics Inc. entered into an agreement with Nestle Health Science to jointly commercialize SER-109, Seres' investigational oral microbiome therapeutic for recurrent *Clostridioides difficile* infection (CDI) in the United States and Canada. This investigational microbiome therapeutics may lead the way for an entirely new treatment modality.?

North America Dominates the Market and Expected to do the Same Over the Forecast Period

North America currently dominates the market for the human microbiome due to the rising incidences of lifestyle-related diseases and autoimmune disorders in these regions coupled with a strong drug pipeline can also be attributed to the highly lucrative growth.

The growing burden of diseases in the region is also boosting the growth of the market. For instance, according to the American Cancer Society, 2022 estimates, there are about 1,918,030 new cases of cancer will be reported in the United States in 2022. Also, according to the Globocan 2020 statistics, there are 274,364 new cases of cancer and is expected to reach 400,564 new cases by 2040. Thus, such an increasing burden of cancer is expected to drive the growth of the market as gut microbiota play a regulatory role in tumor therapy including enhancing the sensitivity of patients to immunotherapy and reducing side effects of chemotherapeutic agents.

Additionally, the increasing research studies and support by the regulatory authorities for the investigation are also contributing to the growth of the market in the region. For instance, in February 2022, 4D pharma plc received FDA clearance for investigational

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new drug (IND) applications for two Live Biotherapeutics namely MRx0005 and MRx0029, for the treatment of Parkinson's disease. Such approvals are expected to drive the growth of the market.

Thus, owing to the abovementioned factors, the studied market in the North America region is expected to project significant growth over the forecast period.

Human Microbiome Market Competitor Analysis

The human microbiome market is moderately competitive, and several players are coming up with new products. Companies like Axial Biotherapeutics, Inc, DuPont, Series Therapeutics, Second Genome, and Synthetic Biologics hold substantial shares in the market. Key players are focusing on enhancing the therapeutics pipeline by developing efficient and safe drugs.

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

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