

# Metagenomics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/M265DE435911EN.html>

Date: November 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: M265DE435911EN

## Abstracts

The global metagenomics market size reached US\$ 505.4 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 966.0 Million by 2028, exhibiting a growth rate (CAGR) of 11.40% during 2022-2028.

Metagenomics refers to the study of microbial genomes in the natural environment. It involves cloning of the genome to study the ecology, evolution and diversity, thereby bypassing the need for isolation and laboratory cultivation of individual species. Metagenomics uses sequencing and bioinformatics technologies to obtain scientific insights and is utilized as a molecular tool for analyzing the deoxyribonucleic acid (DNA) acquired from the environmental samples through water, soil and human waste. The samples are further processed through sequence reading, gene prediction, binning and functional annotation. The insights are used to diagnose infectious diseases, environmental remediation, gut microbe characterization and the development of biofuels.

### Metagenomics Market Trends:

The increasing prevalence of virus-induced infections, such as diarrhea, influenza, hepatitis B, and HIV/AIDS, across the globe, is among the key factors driving the market growth. Moreover, the rising demand for effective solutions for the timely diagnosis of neuroinfectious diseases, such as meningitis and encephalitis, is providing a thrust to the market growth. In line with this, metagenomics also aids in identifying bacterial pathogens that can lead to foodborne disease outbreaks, which is further contributing to the growth of the market. In comparison to the traditionally used technologies, metagenomics requires a lesser number of pre-sequencing steps, enhances the authenticity of long readings and offers high read accuracy. Additionally, various technological advancements, such as the development of next-generation sequencing

services, are acting as other growth-inducing factors. These solutions are integrated with data analysis software for faster data analysis and sample processing. Other factors, including extensive research and development (R&D) activities in the field of life sciences, along with the increasing utilization of metagenomics for manufacturing sustainable agricultural products, are anticipated to drive the market toward growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global metagenomics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, technology and application.

#### Breakup by Product:

- Instruments and Software
- Consumables

#### Breakup by Technology:

- Sequencing
- Bioinformatics

#### Breakup by Application:

- Infectious Disease Diagnosis
- Environmental Remediation
- Gut Microbe Characterization
- Biotechnology
- Biofuel
- Agriculture

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan

India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc, Enterome, Eurofins Scientific, F. Hoffmann-La Roche AG (Roche Holding AG), Illumina Inc, Novogene Co. Ltd., Oxford Nanopore Technologies Limited, Pacific Biosciences of California Inc., PerkinElmer Inc., QIAGEN N.V., Swift Biosciences Inc. (Danaher Corporation) and Thermo Fisher Scientific Inc.

#### Key Questions Answered in This Report:

How has the global metagenomics market performed so far and how will it perform in the coming years?  
What has been the impact of COVID-19 on the global metagenomics market?  
What are the key regional markets?  
What is the breakup of the market based on the product?  
What is the breakup of the market based on the technology?  
What is the breakup of the market based on the application?  
What are the various stages in the value chain of the industry?  
What are the key driving factors and challenges in the industry?  
What is the structure of the global metagenomics market and who are the key players?  
What is the degree of competition in the industry?

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