

Genomics Market By Product (Consumables and Reagent, Services, Instruments, Systems and Software) , By Technology (Sequencing, PCR, Flow Cytometry, Microarray, Others) By Application (Functional Genomics, Epigenomics, Pathway Analysis, Biomarker Discovery, Others) By End User (Clinical Research, Academic and Government Institutions, Hospitals and Clinics, Pharmaceutical and Biotechnology Companies, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Genomics Market

The genomics market was valued at \$33.2 billion in 2023 and is projected to reach \$97.1 billion by 2033, growing at a CAGR of 11.5% from 2024 to 2033.

Genomics is the branch of molecular biology that involves the study of structure, function, mapping, evolution, and editing of the genome of living organisms. A genome is defined as the entire set of an individual's deoxyribonucleic acid (DNA). DNA is an essential chemical compound present inside a living body that contains the critical information for the development and functioning of the body. The major role of genomics is to determine the sequence of molecules which form the DNA content of organisms.

Increase in the integration of genomics into healthcare through personalized treatment plans, diagnosis of diseases, and genetic testing is driving the development of the market. In addition, constant efforts toward new drug development are boosting the demand for innovative genomics technology. In recent times, 3D and spatial genomics is a flourishing trend that involves studying the spatial positioning of chromatin inside the nucleus. This technology is predicted to revolutionize the field of human health and medicine owing to the novel insights it provides into the genetic makeup of individuals.

However, the high expense of establishing genomics laboratories and infrastructure acts as a key restraint for the growth of the market. In addition, the high risk associated with the misuse of genetic data limits market development. According to an article by the National Center for Biotechnology Information, every year millions of individuals dynamically provide unlimited access of their health information to different institutions for multiple uses, including insurance and commercial transactions. The sharing of data is highly extensive such that the information becomes available to institutions not covered under Health Insurance Portability and Accountability Act (HIPAA), thereby losing the security offered by the HIPAA Privacy Rule.

Segment Review

The genomics market is segmented into product, technology, application, end user, and region. On the basis of product, the market is divided into consumables & reagent, services, instruments, systems and software. By technology, it is classified into sequencing, PCR, flow cytometry, microarray, and others. As per application, it is categorized into functional genomics, epigenomics, pathway analysis, biomarker discovery, and others. Depending on end user, it is segmented into clinical research, academic & government institutions, hospitals & clinics, pharmaceutical & biotechnology companies, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the consumables & reagent segment dominated the market in 2023.

By technology, the sequencing segment held the highest market share in 2023.

As per application, the functional genomics segment acquired a high stake in the market

in 2023.

Depending on end user, the pharmaceutical & biotechnology companies segment was the highest shareholder in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global genomics market include Color Genomics, Inc., BGI Genomics, Agilent Technologies, Danaher Corporation, Eppendorf AG, Eurofins Scientific SE, F. Hoffmann-La Roche Ltd., GE Healthcare, Illumina, Inc., and Bio-Rad Laboratories, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Key Market Segments

By Product

Consumables and Reagent

Services

Instruments, Systems and Software

By Technology

Sequencing

PCR

Flow Cytometry

Microarray

Others

By Application

Functional Genomics

Epigenomics

Pathway Analysis

Biomarker Discovery

Others

By End User

Clinical Research

Academic and Government Institutions

Hospitals and Clinics

Pharmaceutical and Biotechnology Companies

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Rest of LAMEA

Key Market Players

Color Genomics, Inc.

BGI Genomics

Agilent Technologies

Danaher Corporation

Eppendorf AG

Eurofins Scientific SE

F. Hoffmann-La Roche Ltd.

GE Healthcare

Illumina, Inc.

Bio-Rad Laboratories, Inc.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: ANTIMICROBIAL PLASTICS MARKET, BY ADDITIVE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Additive
- 4.2. Inorganic And
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Organic
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country

CHAPTER 5: ANTIMICROBIAL PLASTICS MARKET, BY PLASTIC

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Plastic
- 5.2. Engineering
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. High-Performance
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country
- 5.4. Others
 - 5.4.1. Key Market Trends, Growth Factors and Opportunities
 - 5.4.2. Market Size and Forecast, By Region
 - 5.4.3. Market Share Analysis, By Country

CHAPTER 6: ANTIMICROBIAL PLASTICS MARKET, BY END-USE

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By End-use
- 6.2. Healthcare
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Packaging
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region
 - 6.3.3. Market Share Analysis, By Country
- 6.4. Automotive
 - 6.4.1. Key Market Trends, Growth Factors and Opportunities
 - 6.4.2. Market Size and Forecast, By Region

- 6.4.3. Market Share Analysis, By Country
- 6.5. Consumer Goods
 - 6.5.1. Key Market Trends, Growth Factors and Opportunities
 - 6.5.2. Market Size and Forecast, By Region
 - 6.5.3. Market Share Analysis, By Country
- 6.6. Building And Construction
 - 6.6.1. Key Market Trends, Growth Factors and Opportunities
 - 6.6.2. Market Size and Forecast, By Region
 - 6.6.3. Market Share Analysis, By Country
- 6.7. And Others
 - 6.7.1. Key Market Trends, Growth Factors and Opportunities
 - 6.7.2. Market Size and Forecast, By Region
 - 6.7.3. Market Share Analysis, By Country

CHAPTER 7: ANTIMICROBIAL PLASTICS MARKET, BY REGION

- 7.1. Market Overview
 - 7.1.1 Market Size and Forecast, By Region
- 7.2. North America
 - 7.2.1. Key Market Trends and Opportunities
 - 7.2.2. Market Size and Forecast, By Additive
 - 7.2.3. Market Size and Forecast, By Plastic
 - 7.2.4. Market Size and Forecast, By End-use
 - 7.2.5. Market Size and Forecast, By Country
 - 7.2.6. U.S. Antimicrobial Plastics Market
 - 7.2.6.1. Market Size and Forecast, By Additive
 - 7.2.6.2. Market Size and Forecast, By Plastic
 - 7.2.6.3. Market Size and Forecast, By End-use
 - 7.2.7. Canada Antimicrobial Plastics Market
 - 7.2.7.1. Market Size and Forecast, By Additive
 - 7.2.7.2. Market Size and Forecast, By Plastic
 - 7.2.7.3. Market Size and Forecast, By End-use
 - 7.2.8. Mexico Antimicrobial Plastics Market
 - 7.2.8.1. Market Size and Forecast, By Additive
 - 7.2.8.2. Market Size and Forecast, By Plastic
 - 7.2.8.3. Market Size and Forecast, By End-use
- 7.3. Europe
 - 7.3.1. Key Market Trends and Opportunities
 - 7.3.2. Market Size and Forecast, By Additive

- 7.3.3. Market Size and Forecast, By Plastic
- 7.3.4. Market Size and Forecast, By End-use
- 7.3.5. Market Size and Forecast, By Country
- 7.3.6. France Antimicrobial Plastics Market
 - 7.3.6.1. Market Size and Forecast, By Additive
 - 7.3.6.2. Market Size and Forecast, By Plastic
 - 7.3.6.3. Market Size and Forecast, By End-use
- 7.3.7. Germany Antimicrobial Plastics Market
 - 7.3.7.1. Market Size and Forecast, By Additive
 - 7.3.7.2. Market Size and Forecast, By Plastic
 - 7.3.7.3. Market Size and Forecast, By End-use
- 7.3.8. Italy Antimicrobial Plastics Market
 - 7.3.8.1. Market Size and Forecast, By Additive
 - 7.3.8.2. Market Size and Forecast, By Plastic
 - 7.3.8.3. Market Size and Forecast, By End-use
- 7.3.9. Spain Antimicrobial Plastics Market
 - 7.3.9.1. Market Size and Forecast, By Additive
 - 7.3.9.2. Market Size and Forecast, By Plastic
 - 7.3.9.3. Market Size and Forecast, By End-use
- 7.3.10. UK Antimicrobial Plastics Market
 - 7.3.10.1. Market Size and Forecast, By Additive
 - 7.3.10.2. Market Size and Forecast, By Plastic
 - 7.3.10.3. Market Size and Forecast, By End-use
- 7.3.11. Rest of Europe Antimicrobial Plastics Market
 - 7.3.11.1. Market Size and Forecast, By Additive
 - 7.3.11.2. Market Size and Forecast, By Plastic
 - 7.3.11.3. Market Size and Forecast, By End-use
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Additive
 - 7.4.3. Market Size and Forecast, By Plastic
 - 7.4.4. Market Size and Forecast, By End-use
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. China Antimicrobial Plastics Market
 - 7.4.6.1. Market Size and Forecast, By Additive
 - 7.4.6.2. Market Size and Forecast, By Plastic
 - 7.4.6.3. Market Size and Forecast, By End-use
 - 7.4.7. Japan Antimicrobial Plastics Market
 - 7.4.7.1. Market Size and Forecast, By Additive

- 7.4.7.2. Market Size and Forecast, By Plastic
- 7.4.7.3. Market Size and Forecast, By End-use
- 7.4.8. India Antimicrobial Plastics Market
 - 7.4.8.1. Market Size and Forecast, By Additive
 - 7.4.8.2. Market Size and Forecast, By Plastic
 - 7.4.8.3. Market Size and Forecast, By End-use
- 7.4.9. South Korea Antimicrobial Plastics Market
 - 7.4.9.1. Market Size and Forecast, By Additive
 - 7.4.9.2. Market Size and Forecast, By Plastic
 - 7.4.9.3. Market Size and Forecast, By End-use
- 7.4.10. Australia Antimicrobial Plastics Market
 - 7.4.10.1. Market Size and Forecast, By Additive
 - 7.4.10.2. Market Size and Forecast, By Plastic
 - 7.4.10.3. Market Size and Forecast, By End-use
- 7.4.11. Rest of Asia-Pacific Antimicrobial Plastics Market
 - 7.4.11.1. Market Size and Forecast, By Additive
 - 7.4.11.2. Market Size and Forecast, By Plastic
 - 7.4.11.3. Market Size and Forecast, By End-use
- 7.5. LAMEA
 - 7.5.1. Key Market Trends and Opportunities
 - 7.5.2. Market Size and Forecast, By Additive
 - 7.5.3. Market Size and Forecast, By Plastic
 - 7.5.4. Market Size and Forecast, By End-use
 - 7.5.5. Market Size and Forecast, By Country
 - 7.5.6. Brazil Antimicrobial Plastics Market
 - 7.5.6.1. Market Size and Forecast, By Additive
 - 7.5.6.2. Market Size and Forecast, By Plastic
 - 7.5.6.3. Market Size and Forecast, By End-use
 - 7.5.7. South Africa Antimicrobial Plastics Market
 - 7.5.7.1. Market Size and Forecast, By Additive
 - 7.5.7.2. Market Size and Forecast, By Plastic
 - 7.5.7.3. Market Size and Forecast, By End-use
 - 7.5.8. Saudi Arabia Antimicrobial Plastics Market
 - 7.5.8.1. Market Size and Forecast, By Additive
 - 7.5.8.2. Market Size and Forecast, By Plastic
 - 7.5.8.3. Market Size and Forecast, By End-use
 - 7.5.9. Rest of LAMEA Antimicrobial Plastics Market
 - 7.5.9.1. Market Size and Forecast, By Additive
 - 7.5.9.2. Market Size and Forecast, By Plastic

7.5.9.3. Market Size and Forecast, By End-use

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top Winning Strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

- 9.1. INEOS Group
 - 9.1.1. Company Overview
 - 9.1.2. Key Executives
 - 9.1.3. Company Snapshot
 - 9.1.4. Operating Business Segments
 - 9.1.5. Product Portfolio
 - 9.1.6. Business Performance
 - 9.1.7. Key Strategic Moves and Developments
- 9.2. BioCote Limited
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Operating Business Segments
 - 9.2.5. Product Portfolio
 - 9.2.6. Business Performance
 - 9.2.7. Key Strategic Moves and Developments
- 9.3. Lonza Group
 - 9.3.1. Company Overview
 - 9.3.2. Key Executives
 - 9.3.3. Company Snapshot
 - 9.3.4. Operating Business Segments
 - 9.3.5. Product Portfolio
 - 9.3.6. Business Performance
 - 9.3.7. Key Strategic Moves and Developments
- 9.4. Microban International
 - 9.4.1. Company Overview

- 9.4.2. Key Executives
- 9.4.3. Company Snapshot
- 9.4.4. Operating Business Segments
- 9.4.5. Product Portfolio
- 9.4.6. Business Performance
- 9.4.7. Key Strategic Moves and Developments
- 9.5. RTP Company, LLC
 - 9.5.1. Company Overview
 - 9.5.2. Key Executives
 - 9.5.3. Company Snapshot
 - 9.5.4. Operating Business Segments
 - 9.5.5. Product Portfolio
 - 9.5.6. Business Performance
 - 9.5.7. Key Strategic Moves and Developments
- 9.6. Avient Corporation
 - 9.6.1. Company Overview
 - 9.6.2. Key Executives
 - 9.6.3. Company Snapshot
 - 9.6.4. Operating Business Segments
 - 9.6.5. Product Portfolio
 - 9.6.6. Business Performance
 - 9.6.7. Key Strategic Moves and Developments
- 9.7. BASF SE
 - 9.7.1. Company Overview
 - 9.7.2. Key Executives
 - 9.7.3. Company Snapshot
 - 9.7.4. Operating Business Segments
 - 9.7.5. Product Portfolio
 - 9.7.6. Business Performance
 - 9.7.7. Key Strategic Moves and Developments
- 9.8. Palram Industries Ltd.
 - 9.8.1. Company Overview
 - 9.8.2. Key Executives
 - 9.8.3. Company Snapshot
 - 9.8.4. Operating Business Segments
 - 9.8.5. Product Portfolio
 - 9.8.6. Business Performance
 - 9.8.7. Key Strategic Moves and Developments
- 9.9. LyondellBasell Industries Holdings B.V.

- 9.9.1. Company Overview
- 9.9.2. Key Executives
- 9.9.3. Company Snapshot
- 9.9.4. Operating Business Segments
- 9.9.5. Product Portfolio
- 9.9.6. Business Performance
- 9.9.7. Key Strategic Moves and Developments
- 9.10. DuPont De Nemours, Inc.
 - 9.10.1. Company Overview
 - 9.10.2. Key Executives
 - 9.10.3. Company Snapshot
 - 9.10.4. Operating Business Segments
 - 9.10.5. Product Portfolio
 - 9.10.6. Business Performance
 - 9.10.7. Key Strategic Moves and Developments

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