

Global Optical Genome Mapping Market Report and Forecast 2023-2031

Market Report | 2023-07-13 | 140 pages | EMR Inc.

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Report description:

Global Optical Genome Mapping Market Report and Forecast 2023-2031

Global Optical Genome Mapping Market Outlook:

The global optical genome mapping market is anticipated to grow at a CAGR of 19.7% during the forecast period of 2023-2031 driven by the advancements in genomics research.

Optical Genome Mapping: Introduction

Optical genome mapping is a cutting-edge technology that enables the comprehensive analysis and mapping of the entire genome of an organism. It allows researchers and scientists to study genetic variations, structural rearrangements, and other genomic alterations with high accuracy and resolution. Optical genome mapping provides valuable insights into genomic disorders, cancer research, personalized medicine, and other fields of genomics.

Key Trends in the Optical Genome Mapping Market

Some key trends involved in the optical genome mapping market are as follows:

- **Advancements in Technology:** Optical genome mapping is witnessing continuous advancements in technology, leading to improved efficiency, accuracy, and scalability of the technology. The development of high-throughput platforms and automated workflows has enabled faster and more cost-effective genome mapping, making it more accessible to researchers and clinicians.
- **Application in Clinical Diagnostics:** Optical genome mapping is increasingly being adopted in clinical diagnostics to detect and analyze genetic abnormalities associated with various diseases and disorders. It provides a comprehensive view of the genome, allowing for the identification of structural variations and genetic markers that may contribute to disease development or treatment response. The integration of optical genome mapping into clinical workflows has the potential to revolutionize diagnosis and personalized treatment approaches.
- **Integration with Next-Generation Sequencing (NGS):** Optical genome mapping is often used in conjunction with next-generation sequencing technologies to complement and validate the sequencing data. This integration enhances the accuracy of genomic analysis by providing long-range structural information that is not easily obtained through sequencing alone. The combination of optical genome mapping and NGS offers a comprehensive and powerful approach for understanding complex genomic variations.

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-□Expansion of Genomic Research: As the field of genomics continues to expand, optical genome mapping is gaining prominence as a valuable tool for genome analysis. Its ability to detect large-scale genomic alterations, such as copy number variations, structural rearrangements, and repeat expansions, provides critical insights into genome evolution, population genetics, and disease mechanisms. Researchers are increasingly incorporating optical genome mapping into their studies to unravel the complexities of the genome.

Optical Genome Mapping Market Segmentations

Market Breakup by Product

- Consumables
- Instruments

Market Breakup by Application

- Genome Assembly
- Structural Variation Detection
- Microbial Strain Typing
- Haplotype Phasing
- Others

Market Breakup by End User

- Research and Academic Institutions
- Biotechnology and Pharmaceutical Companies
- Clinical Laboratories
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Optical Genome Mapping Market Scenario

The market for optical genome mapping has witnessed significant growth in recent years, driven by advancements in genomics research, increasing demand for personalized medicine, and the need for comprehensive genomic analysis. Optical genome mapping technologies have revolutionized the way we study and understand the genome, offering high-resolution mapping of genomic variations and structural rearrangements. These technologies have found applications in various fields, including clinical diagnostics, pharmaceutical research, and agriculture.

The market for optical genome mapping is expected to expand further as the technology becomes more accessible and affordable. Advancements in instrument design, automation, and data analysis algorithms have made optical genome mapping platforms more user-friendly and efficient. This has facilitated their integration into research and clinical workflows, allowing for faster and more accurate analysis of genomic data.

Overall, the market for optical genome mapping is expected to witness substantial growth in the coming years. The technology's ability to provide comprehensive genomic information, its applications in personalized medicine and clinical diagnostics, and ongoing advancements in instrument design and data analysis algorithms are key factors driving its adoption. With continued

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research and development efforts, optical genome mapping is poised to transform the field of genomics and contribute to advancements in healthcare and precision medicine.

Optical Genome Mapping Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Bionano Genomics, Inc.
- Nucleome Informatics Pvt Ltd
- PerkinElmer, Inc.
- Nabsys Inc.
- France Genomique
- Praxis Genomics LLC
- OpGen, Inc.
- Thermo Fisher Scientific, Inc.
- Illumina, Inc.
- HemoCue Holding AB

*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Table of Contents:

- 1 Preface
- 1.1 Objectives of the Study
- 1.2 Key Assumptions
- 1.3 Report Coverage - Key Segmentation and Scope
- 1.4 Research Methodology
- 2 Executive Summary
- 3 Global Optical Genome Mapping Market Overview
- 3.1 Global Optical Genome Mapping Market Historical Value (2016-2022)
- 3.2 Global Optical Genome Mapping Market Forecast Value (2023-2031)
- 4 Global Optical Genome Mapping Market Dynamics
- 4.1 Market Drivers and Constraints
- 4.2 SWOT Analysis
- 4.3 Porter's Five Forces Model
- 4.4 Key Demand Indicators
- 4.5 Key Price Indicators
- 4.6 Industry Events, Initiatives, and Trends
- 4.7 Value Chain Analysis
- 5 Global Optical Genome Mapping Market Segmentation
- 5.1 Global Optical Genome Mapping Market by Product
- 5.1.1 Market Overview
- 5.1.2 Consumables
- 5.1.3 Instruments
- 5.2 Global Optical Genome Mapping Market by Application
- 5.2.1 Market Overview
- 5.2.2 Genome Assembly
- 5.2.3 Structural Variation Detection
- 5.2.4 Microbial Strain Typing

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- 5.2.5 Haplotype Phasing
- 5.2.6 Others
- 5.3 Global Optical Genome Mapping Market by End User
 - 5.3.1 Market Overview
 - 5.3.2 Research and Academic Institutions
 - 5.3.3 Biotechnology and Pharmaceutical Companies
 - 5.3.4 Clinical Laboratories
 - 5.3.5 Others
- 5.4 Global Optical Genome Mapping Market by Region
 - 5.4.1 Market Overview
 - 5.4.2 North America
 - 5.4.3 Europe
 - 5.4.4 Asia Pacific
 - 5.4.5 Latin America
 - 5.4.6 Middle East and Africa
- 6 North America Optical Genome Mapping Market
 - 6.1 Market Share by Country
 - 6.2 United States of America
 - 6.3 Canada
- 7 Europe Optical Genome Mapping Market
 - 7.1 Market Share by Country
 - 7.2 United Kingdom
 - 7.3 Germany
 - 7.4 France
 - 7.5 Italy
 - 7.6 Others
- 8 Asia Pacific Optical Genome Mapping Market
 - 8.1 Market Share by Country
 - 8.2 China
 - 8.3 Japan
 - 8.4 India
 - 8.5 ASEAN
 - 8.6 Australia
 - 8.7 Others
- 9 Latin America Optical Genome Mapping Market
 - 9.1 Market Share by Country
 - 9.2 Brazil
 - 9.3 Argentina
 - 9.4 Mexico
 - 9.5 Others
- 10 Middle East and Africa Optical Genome Mapping Market
 - 10.1 Market Share by Country
 - 10.2 Saudi Arabia
 - 10.3 United Arab Emirates
 - 10.4 Nigeria
 - 10.5 South Africa
 - 10.6 Others

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11 Patent Analysis

- 11.1 Analysis by Type of Patent
- 11.2 Analysis by Publication year
- 11.3 Analysis by Issuing Authority
- 11.4 Analysis by Patent Age
- 11.5 Analysis by CPC Analysis
- 11.6 Analysis by Patent Valuation
- 11.7 Analysis by Key Players

12 Grants Analysis

- 12.1 Analysis by year
- 12.2 Analysis by Amount Awarded
- 12.3 Analysis by Issuing Authority
- 12.4 Analysis by Grant Application
- 12.5 Analysis by Funding Institute
- 12.6 Analysis by NIH Departments
- 12.7 Analysis by Recipient Organization

13 Funding Analysis

- 13.1 Analysis by Funding Instances
- 13.2 Analysis by Type of Funding
- 13.3 Analysis by Funding Amount
- 13.4 Analysis by Leading Players
- 13.5 Analysis by Leading Investors
- 13.6 Analysis by Geography

14 Partnership and Collaborations Analysis

- 14.1 Analysis by Partnership Instances
- 14.2 Analysis by Type of Partnership
- 14.3 Analysis by Leading Players
- 14.4 Analysis by Geography

15 Regulatory Framework

- 15.1 Regulatory Overview
 - 15.1.1 US FDA
 - 15.1.2 EU EMA
 - 15.1.3 INDIA CDSCO
 - 15.1.4 JAPAN PMDA
 - 15.1.5 Others

16 Supplier Landscape

- 16.1 Bionano Genomics, Inc.
 - 16.1.1 Financial Analysis
 - 16.1.2 Product Portfolio
 - 16.1.3 Demographic Reach and Achievements
 - 16.1.4 Mergers and Acquisitions
 - 16.1.5 Certifications

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- 16.2 Nucleome Informatics Pvt Ltd
 - 16.2.1 Financial Analysis
 - 16.2.2 Product Portfolio
 - 16.2.3 Demographic Reach and Achievements
 - 16.2.4 Mergers and Acquisitions
 - 16.2.5 Certifications
- 16.3 PerkinElmer, Inc.
 - 16.3.1 Financial Analysis
 - 16.3.2 Product Portfolio
 - 16.3.3 Demographic Reach and Achievements
 - 16.3.4 Mergers and Acquisitions
 - 16.3.5 Certifications
- 16.4 Nabsys Inc.
 - 16.4.1 Financial Analysis
 - 16.4.2 Financial Portfolio
 - 16.4.3 Demographic Reach and Achievements
 - 16.4.4 Mergers and Acquisitions
 - 16.4.5 Certifications
- 16.5 France Genomique
 - 16.5.1 Financial Analysis
 - 16.5.2 Product Portfolio
 - 16.5.3 Demographic Reach and Achievements
 - 16.5.4 Mergers and Acquisitions
 - 16.5.5 Certifications
- 16.6 Praxis Genomics LLC
 - 16.6.1 Financial Analysis
 - 16.6.2 Product Portfolio
 - 16.6.3 Demographic Reach and Achievements
 - 16.6.4 Mergers and Acquisitions
 - 16.6.5 Certifications
- 16.7 OpGen, Inc.
 - 16.7.1 Financial Analysis
 - 16.7.2 Product Portfolio
 - 16.7.3 Demographic Reach and Achievements
 - 16.7.4 Mergers and Acquisitions
 - 16.7.5 Certifications
- 16.8 Thermo Fisher Scientific, Inc.
 - 16.8.1 Financial Analysis
 - 16.8.2 Product Portfolio
 - 16.8.3 Demographic Reach and Achievements
 - 16.8.4 Mergers and Acquisitions
 - 16.8.5 Certifications
- 16.9 Illumina, Inc.
 - 16.9.1 Financial Analysis
 - 16.9.2 Product Portfolio
 - 16.9.3 Demographic Reach and Achievements
 - 16.9.4 Mergers and Acquisitions

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- 16.9.5□Certifications
- 16.10□HemoCue Holding AB
 - 16.10.1□Financial Analysis
 - 16.10.2□Product Portfolio
 - 16.10.3□Demographic Reach and Achievements
 - 16.10.4□Mergers and Acquisitions
 - 16.10.5□Certifications
- 17□Global Optical Genome Mapping Market - Distribution Model (Additional Insight)
 - 17.1□Overview
 - 17.2□Potential Distributors
 - 17.3□Key Parameters for Distribution Partner Assessment
- 18□Key Opinion Leaders (KOL) Insights (Additional Insight)
- 19□Company Competitiveness Analysis (Additional Insight)
 - 19.1□Very Small Companies
 - 19.2□Small Companies
 - 19.3□Mid-Sized Companies
 - 19.4□Large Companies
 - 19.5□Very Large Companies
- 20□Payment Methods (Additional Insight)
 - 20.1□Government Funded
 - 20.2□Private Insurance
 - 20.3□Out-of-Pocket

*Additional insights provided are customisable as per client requirements.

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