

# Artificial Intelligence (AI) in Genomics Market Increase to \$5.5 Bn by 2030 | Remarkable 43.2% CAGR | VMR

*Artificial Intelligence In Genomics Market Size, Share, Industry Trends, Growth, and Opportunities Analysis by 2030*

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, February 14, 2024 /EINPresswire.com/ -- The Global [Artificial Intelligence In Genomics Market Size](#) was valued at USD 0.45 Billion in 2022, and it is expected to reach USD 5.5 Billion by 2030, growing at a CAGR of 43.2% during the forecast period (2022-2030).



The Artificial Intelligence (AI) In Genomics Market has emerged as a transformative force in the healthcare sector, bridging the gap between genomics and advanced analytics. This market is driven by the increasing demand for personalized medicine, advancements in genomic research, and the need for efficient data processing. The integration of AI technologies in genomics has significantly accelerated the analysis of vast genomic datasets, offering unprecedented insights into genetic variations and their associations with diseases.

This report delves into the multifaceted landscape of the Artificial Intelligence In Genomics Market, exploring its dynamics, top trends, challenges, opportunities, key report findings, and a focused regional analysis on the burgeoning North America region.

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## Market Dynamics

The market dynamics of Artificial Intelligence in Genomics are multifaceted. The rising adoption of AI-driven genomics solutions by research institutions and pharmaceutical companies is a

major driving force. The ability of AI to analyze complex genomic data swiftly and accurately has revolutionized drug discovery and development processes. Additionally, the increasing focus on precision medicine and the declining costs of genomic sequencing contribute to the market's robust growth.

### Top Companies in Global Artificial Intelligence In Genomics Market

- Microsoft Corp. (U.S.)
- NVIDIA Corp. (U.S.)
- Deep Genomics Incorporated (Canada)
- Fabric Genomics Inc. (U.S.)
- Data4Cure Inc. (U.S.)
- Predictive Oncology Inc. (U.S.)
- Emedgene Technologies Ltd. (U.S.)
- Congenica Ltd. (UK)
- Tempus Labs Inc. (U.S.)
- SOPHiA Genetics SA (Switzerland)
- Illumina Inc. (U.S.)
- BenevolentAI Ltd. (UK)

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### Top Trends

In the ever-evolving landscape of healthcare, the fusion of Artificial Intelligence (AI) and genomics has emerged as a groundbreaking force, propelling the field into uncharted territories. The Artificial Intelligence in Genomics Market is witnessing a paradigm shift, marked by top trends that are shaping the future of personalized medicine and genomic research. One of the pivotal trends is the integration of machine learning algorithms in genomic data analysis, providing researchers with unprecedented insights into the intricate complexities of the human genome. This symbiotic relationship between AI and genomics not only expedites the pace of research but also enhances the accuracy of genomic interpretations.

### Top Report Findings

- The market is expected to witness a CAGR of 43.2% during the forecast period.
- AI applications in genomics are projected to reduce drug development timelines by up to 30%.
- The global Artificial Intelligence in Genomics market is estimated to reach USD 5.5 Billion by 2030.

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## Challenges

Despite the promising outlook, the market faces challenges that need to be addressed for sustained growth. The interpretability of AI-generated insights in genomics remains a significant hurdle. Ensuring ethical use and privacy protection of genomic data also pose challenges that demand comprehensive regulatory frameworks.

## Opportunities

The market presents ample opportunities for innovation and growth. Collaborations between AI developers and genomics researchers can unlock new possibilities in disease diagnosis, prognosis, and treatment. Furthermore, advancements in cloud computing and data sharing platforms offer a promising avenue for collaborative genomic research on a global scale.

## Global Artificial Intelligence In Genomics Market Segmentation

### By Component

- Software
- Services
- Hardware
- Other Components

### By Functionality

- Genome Sequencing
- Gene Editing
- Gene Expression Analysis
- Other Functionalities

### By Application

- Drug Discovery & Development
- Precision Medicine
- Development
- Diagnostic Testing
- Agricultural Genomics
- Other Applications

### By End User

- Pharmaceutical & Biopharmaceutical Companies
- Academic & Research Institutes
- Healthcare Providers

- Government Organizations
- Other End Users

#### By Technology

- Machine Learning
- Natural Language Processing (NLP)
- Computer Vision
- Robotics
- Other Technologies

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#### Key Questions Answered in Artificial Intelligence In Genomics Market Report

- How is AI transforming the genomics landscape in drug discovery?
- What are the key factors driving the adoption of AI in genomics research?
- How does AI enhance the accuracy and efficiency of genomic data analysis?
- What challenges and opportunities exist in ensuring the ethical use of genomic data?
- How can AI contribute to personalized medicine and patient-centric healthcare?
- What are the market trends shaping the future of AI in genomics?
- Which regions are at the forefront of AI integration in genomics, and why?
- What role does genomic data security play in the market's evolution?

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#### Regional Analysis

North America dominates the Artificial Intelligence in Genomics market, owing to its robust healthcare infrastructure, technological advancements, and significant investments in genomics research. The region's well-established pharmaceutical industry and collaborative initiatives between research institutions and AI developers further contribute to its leadership in the market.

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