

# Artificial Intelligence (AI) in Genomics: Global Market

<https://marketpublishers.com/r/A95B07AEDC56EN.html>

Date: May 2022

Pages: 104

Price: US\$ 5,500.00 (Single User License)

ID: A95B07AEDC56EN

## Abstracts

### Report Scope:

This report highlights the current and future market potential for AI genomics and provides a detailed analysis of the competitive environment, regulatory scenario, drivers, restraints, opportunities, and trends in the market. The report also covers market projections through 2027 as well as key market players. BCC Research analyzes each technology in detail, determines major players and current market status, and presents forecasts of growth over the next five years. Scientific challenges and advances, including the latest trends, are emphasized. Government regulations, major collaborations, recent patents, and factors affecting the industry from a global perspective are examined.

Key AI in genomics technologies and products are analyzed to determine present and future market status, and growth is forecast from 2022 to 2027. An in-depth discussion of strategic alliances, industry structures, competitive dynamics, patents, and market driving forces are also provided.

### Report Includes:

23 data tables and 19 additional tables

An overview of the global market for artificial intelligence (AI) in genomics applications

Analyses of the global market trends, with revenue data from 2020-2021, estimates for 2022, and projections of compound annual growth rates (CAGRs) through 2027

Highlights of the current and future market potential for the AI genomics industry with an emphasis on new products and technologies, and areas of focus to forecast this market into various segments and sub-segments

Evaluation and forecast the global AI genomics market size, and corresponding market share analysis by technology, offerings, application, and geographic region

Technology assessment of the key drivers, restraints and opportunities that will shape the market for AI in genomics over the forecast period (2021 to 2027)

In-depth information on major technology issues and challenges, government regulations, breakthrough innovations, collaborations and developments, and costs and benefits of AI applications in the genomics industry

Review of recent industry trends, R&D activities, competitive landscape featuring key market participants, and COVID-19 implications within the AI genomics market ecosystem

Company profiles of major players, including BenevolentAI, Data4Cure Inc., Deep Genomics, IBM Corp., and Microsoft Corp.

## Contents

### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives  
Reasons for Doing the Study  
Intended Audience  
Scope and Format  
Methodology  
Information Sources  
Geographical Breakdown  
Analyst's Credentials  
BCC Custom Research  
Related BCC Research Reports

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

### **CHAPTER 3 OVERVIEW**

Introduction to Artificial Intelligence  
Understanding Artificial Intelligence in Healthcare  
Artificial Intelligence in Healthcare Evolution and Transition  
Introduction to Genomics  
Artificial Intelligence (AI) Analysis  
Software Development

### **CHAPTER 4 IMPACT OF THE COVID-19 PANDEMIC**

Introduction  
Impact of COVID-19 on the Market  
Impact on MedTech  
Changes in Consumption Trends for Health-Related Products

### **CHAPTER 5 MARKET DYNAMICS**

Market Drivers  
Investment in AI Health Sector  
Increasing Strategic Moves by Market Players and Governments  
Increasing Incidences of Chronic Disease

Demand for Personalized Medicine  
Increasing Research and Development Budget  
Restrains and Challenges  
Reluctance Among Medical Practitioners to Adopt AI-Based Technologies  
Ambiguous Regulatory Guidelines for Medical Software  
Challenge to Maintain Data Security  
Opportunities  
Untapped Potential in Emerging Markets

## **CHAPTER 6 MARKET BREAKDOWN BY OFFERING**

Software  
Market Size and Forecast  
Services  
Market Size and Forecast

## **CHAPTER 7 MARKET BREAKDOWN BY TECHNOLOGY**

Machine Learning  
Market Size and Forecast  
Computer Vision  
Market Size and Forecast

## **CHAPTER 8 AI IN GENOMICS BY APPLICATION**

Diagnostics  
Market Size and Forecast  
Drug Discovery and Development  
Process of Drug Discovery  
History of Drug Discovery  
Classification of Techniques Used in Drug Discovery  
Market Size and Forecast  
Others  
Market Size and Forecast

## **CHAPTER 9 MARKET BREAKDOWN BY REGION**

Global Market for AI in Genomics by Region  
North America

U.S.  
Canada  
Europe  
Germany  
U.K.  
France  
Italy  
Spain  
Rest of Europe  
Asia-Pacific  
China  
Japan  
India  
Rest of Asia-Pacific  
Rest of the World

## **CHAPTER 10 REGULATIONS AND FINANCE**

Regulatory Framework  
American Diabetes Association's Standards of Medical Care in Diabetes  
ATA Guidelines for Artificial Intelligence  
Indian AI Guidelines, Strategy, and Standards

## **CHAPTER 11 PATENT REVIEW**

## **CHAPTER 12 COMPETITIVE LANDSCAPE**

Overview  
Recent Developments

## **CHAPTER 13 COMPANY PROFILES**

BENEVOLENTAI  
DATA4CURE INC.  
DEEP GENOMICS  
DNANEXUS INC.  
FDNA INC.  
GENOOX  
INTERNATIONAL BUSINESS MACHINES CORP. (IBM)

LIFEBIT  
MICROSOFT CORP.  
NVIDIA  
SOPHIA GENETICS

## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for AI in Genomics, by Region, Through 2027

Table 1: Cancer Statistics Across Major Asian Countries, by Cancer Site/Type, 2020

Table 2: Global Market for AI in Genomics, by Offering, Through 2027

Table 3: Global Market for AI in Genomics, by Technology, Through 2027

Table 4: Global Market for AI in Genomics, by Application, Through 2027

Table 5: History of Drug Discovery

Table 6: Global Market for AI in Genomics, by Region, Through 2027

Table 7: North American Market for AI in Genomics, by Offering, Through 2027

Table 8: North American Market for AI in Genomics, by Technology, Through 2027

Table 9: North American Market for AI in Genomics, by Application, Through 2027

Table 10: North American Market for AI in Genomics, by Country, Through 2027

Table 11: European Market for AI in Genomics, by Offering, Through 2027

Table 12: European Market for AI in Genomics, by Technology, Through 2027

Table 13: European Market for AI in Genomics, by Application, Through 2027

Table 14: European Market for AI in Genomics, by Country, Through 2027

Table 15: Asia-Pacific Market for AI in Genomics, by Offering, Through 2027

Table 16: Asia-Pacific Market for AI in Genomics, by Technology, Through 2027

Table 17: Asia-Pacific Market for AI in Genomics, by Application, Through 2027

Table 18: Asia-Pacific Market for AI in Genomics, by Country, Through 2027

Table 19: Number of New Cancer Cases in Japan in Both Sexes, 2020

Table 20: Rest of the World Market for AI in Genomics, by Offering, Through 2027

Table 21: Rest of the World Market for AI in Genomics, by Technology, Through 2027

Table 22: Rest of the World Market for AI in Genomics, by Application, Through 2027

Table 23: Regulations Pertaining AI Genomics in Select Countries

Table 24: Analysis of Patents Related to AI in Genomics

Table 25: Leading Market Players in the AI Genomics Market Ecosystem

Table 26: BenevolentAI: Product Portfolio

Table 27: Data4Cure: Product Portfolio

Table 28: Deep Genomics: Product Portfolio

Table 29: DNAnexus: Product Portfolio

Table 30: FDNA Inc.: Product Portfolio

Table 31: Genoox: Product Portfolio

Table 32: IBM Corp.: Company Financials, 2020 and 2021

Table 33: IBM: Product Portfolio

Table 34: IBM Corp.: Company Strategic Developments, 2017-2019

Table 35: Lifebit: Product Portfolio

Table 36: Microsoft Corp.: Financials, 2019-2021

Table 37: Microsoft Corp.: Product Portfolio

Table 38: Microsoft Corp.: Strategies and Developments

Table 39: Nvidia: Company Financials, 2019 and 2020

Table 40: Nvidia: Product Portfolio

Table 41: SOPHiA GENETICS: Product Portfolio



## List Of Figures

### LIST OF FIGURES

- Summary Figure A: Global AI In Genomics Market, by Region, 2020–2027
- Summary Figure B: Global Market Shares of AI in Genomics, by Region, 2021
- Figure 1: Global Funding in Health-Tech Companies
- Figure 2: Global Projections of Deaths from the Top Three Chronic Diseases, 2005–2030
- Figure 3: Increased Incidence of Cancer, 2012 and 2030
- Figure 4: Global Distribution of Deaths from Chronic Diseases, 2019
- Figure 5: Funding for Disease Research, 2014–2018
- Figure 6: Rising Trends in Healthcare Spending, by Institution, 2015–2035
- Figure 7: Global Market Shares of AI in Genomics, by Offering, 2021
- Figure 8: Global Market for AI in Genomics, by Offering, 2020–2027
- Figure 9: Global Market for Software in Software in an AI Systems, 2020–2027
- Figure 10: Global Market for AI Services, 2020–2027
- Figure 11: Global Market Shares of AI in Genomics, by Technology, 2021
- Figure 12: Global Market for AI in Genomics, by Technology, 2020–2027
- Figure 13: Global Market for Machine Learning, 2020–2027
- Figure 14: Global Market for Computer Vision, 2020–2027
- Figure 15: Global Market Shares of AI in Genomics, by Application, 2021
- Figure 16: Global Market for AI in Genomics, by Application, 2020–2027
- Figure 17: Global Market for AI in Diagnostics, 2020–2027
- Figure 18: Process of Drug Discovery
- Figure 19: Global Market for AI in Drug Discovery and Development, 2020–2027
- Figure 20: Global Market for Other Applications of AI in Genomics, 2020–2027
- Figure 21: Global Market Shares of AI in Genomics, by Region, 2021
- Figure 22: North American Market Shares of AI in Genomics, by Offering, 2021
- Figure 23: North American Market Shares of AI in Genomics, by Technology, 2021
- Figure 24: North American Market Shares of AI in Genomics, by Application, 2021
- Figure 25: North American Market Shares of AI in Genomics, by Country, 2021
- Figure 26: U.S. Market for AI in Genomics, 2020–2027
- Figure 27: Canadian Market for AI in Genomics, 2020–2027
- Figure 28: European Market Shares of AI in Genomics, by Offering, 2021
- Figure 29: European AI Genomics Market Shares, by Technology, 2021
- Figure 30: European Market Shares of AI in Genomics, by Application, 2021
- Figure 31: European Market Shares of AI in Genomics, by Country, 2021
- Figure 32: Geriatric Population in Germany, 2000-2030

Figure 33: German Market for AI in Genomics, 2020–2027

Figure 34: U.K. Market for AI in Genomics, 2020–2027

Figure 35: French Market for AI in Genomics, 2020–2027

Figure 36: Italian Market for AI in Genomics, 2020–2027

Figure 37: Spanish Market for AI in Genomics, 2020–2027

Figure 38: Rest of Europe Market for AI in Genomics, 2020–2027

Figure 39: Asia-Pacific Market Shares of AI in Genomics, by Offering, 2021

Figure 40: Asia-Pacific Market Shares of AI in Genomics, by Technology, 2021

Figure 41: Asia-Pacific Market Shares of AI in Genomics, by Application, 2021

Figure 42: Asia-Pacific Market Shares of AI in Genomics, by Country, 2021

Figure 43: New Cancer Cases in China, 2020

Figure 44: Distribution of New Cancer Cases in China, 2020

Figure 45: Chinese Market for AI in Genomics, 2020-2027

Figure 46: Japanese Market for AI in Genomics, 2020-2027

Figure 47: Indian Market for AI in Genomics, 2020–2027

Figure 48: Rest of Asia-Pacific Market for AI in Genomics, 2020–2027

Figure 49: New Cancer Cases in Africa, 2020

Figure 50: Rest of the World Market Shares of AI in Genomics, by Offering, 2021

Figure 51: Rest of the World Market Shares of AI in Genomics, by Technology, 2021

Figure 52: Rest of the World Market Shares of AI in Genomics, by Application, 2021

Figure 53: Microsoft Corp.: Revenue Share, by Region/Country, 2021

## I would like to order

Product name: Artificial Intelligence (AI) in Genomics: Global Market

Product link: <https://marketpublishers.com/r/A95B07AEDC56EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A95B07AEDC56EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970