

Artificial Intelligence For Drug Development and Discovery Market by Type (Target Identification, Molecule Screening, De Novo Drug Design & Drug Optimization, and Preclinical & Clinical Testing), Indication, (Oncology, Neurology, Infectious Disease and Others), and End User (Pharmaceutical & Biotechnology Companies, and Contract Research Organization): Global Opportunity Analysis and Industry Forecast, 2019–2027

https://marketpublishers.com/r/A273BFE9066FEN.html

Date: June 2020

Pages: 210

Price: US\$ 5,769.00 (Single User License)

ID: A273BFE9066FEN

Abstracts

The artificial intelligence for drug discovery and development market was valued at \$520 million in 2019 and is projected to reach \$4,815 million by 2027, registering a CAGR of 31.6% from 2020 to 2027.

Artificial intelligence (AI) is science and engineering adopted to design intelligent machines, especially intelligent computer programs. AI is an intelligent system that relates various human intelligence based functions such as reasoning, learning, and problem-solving skills on different disciplines such as biology, computer science, psychology, mathematics, linguistics, and engineering. In the healthcare industry, AI is applicable in medication management, treatment plans, drug discovery& developments and others.

Drug discovery& development includes several processes and phases that demand a huge amount of funds. Furthermore, clinical trials and approval of the drug in the market might be a challenging task. Increase in number of collaborations between pharmaceutical & biotech companies and AI providers are the major driver for this



market. Artificial intelligence decreases a large amount of time and cost utilized in the drug discovery and development process, which is mainly influencing the market growth. The increasing demand for cloud-based software that enables the researcher to design drugs quickly and accurately is expected to drive the market growth. Moreover, the integration of artificial intelligence (AI) and machine learning approaches within the life science R&D industry is making drug discovery and development more innovative, time-effective and cost-effective.

The artificial intelligence for drug discovery and development market is segmented on the type, indication, end user and region. By type, it is divided into target identification, molecules screening, de novo drug design &drug optimization and preclinical &clinical testing. On the basis of indication, it is classified into oncology, infectious disease, neurology, and others. By end user, it is segmented into pharmaceutical & biotechnology companies, and CROs.

Region wise, the market is analyzed across North America (US, Canada), Europe (Germany, France, UK, Rest of Europe), Asia-Pacific (Japan, China, Australia, India, Rest of Asia-Pacific), and LAMEA (Latin America and Middle East and Africa). North America held the major share of the artificial intelligence for drug discovery and development market in 2019 and is expected to continue its dominance during the forecast period, owing to strong economies in the U.S. and Canada; high adoption rate of AI technologies due to large number of investments to boost the drug discovery industry; and large number of cross industry collaborations and partnerships majorly fuels the market growth. However, Asia-Pacific is expected to grow at the highest CAGR during the forecast period, owing to rise in adoption of advanced AI technologies, and growth in focus of major players on increasing their presence in emerging Asian countries.

KEY MARKET SEGMENTS

By Type

Target Identification

Molecule Screening

De Novo Drug Design and Drug Optimization

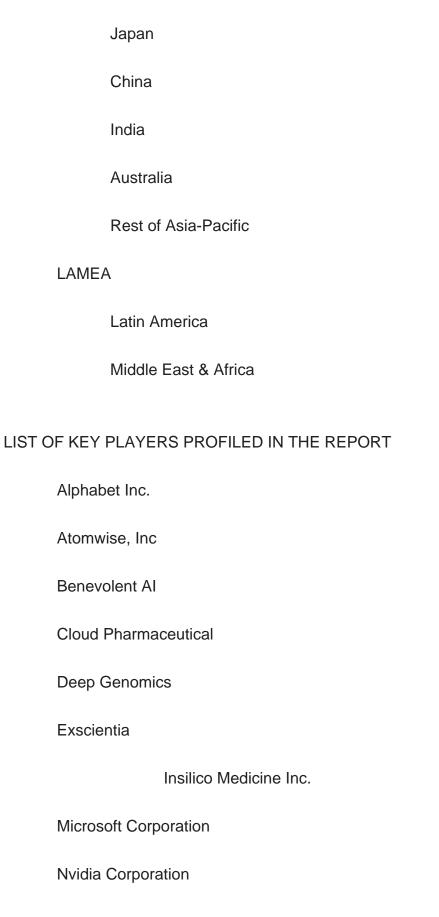
Preclinical and Clinical Testing



By Indication		
Oncolo	pgy	
Infection	ous Disease	
Neurol	Neurology	
Others	Others	
By End User		
Pharm	aceutical and Biotechnology Companies.	
Contra	ct Research Organization (CROs).	
By Geography		
North America		
	U.S.	
	Canada	
Europe		
	Germany	
	France	
	UK	
	Rest of Europe	

Asia Pacific







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FIGURE 19. COMPARATIVE ANALYSIS OF ARTIFICIAL INTELLIGENCE FOR DRUG DISCOVERY AND DEVELOPMENTMARKET, FOR INFECTIOUS DISEASEBY COUNTRY, 2019 & 2027 (%)

FIGURE 20. COMPARATIVE ANALYSIS OF ARTIFICIAL INTELLIGENCE FOR DRUG



DISCOVERY AND DEVELOPMENTMARKET, FOR OTHERSBY COUNTRY, 2019 & 2027 (%)

FIGURE 21. COMPARATIVE ANALYSIS OF ARTIFICIAL INTELLIGENCE FOR DRUG DISCOVERY AND DEVELOPMENT MARKET, FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIESBY COUNTRY, 2019 & 2027 (%)

FIGURE 22. COMPARATIVE ANALYSIS OF ARTIFICIAL INTELLIGENCE FOR DRUG DISCOVERY AND DEVELOPMENT MARKET, FOR CONTRACT RESEARCH ORGANIZATION BY COUNTRY, 2019 & 2027 (%)

FIGURE 23. ALPHABET INC.: REVENUE, 20187-2019 (\$MILLION)

FIGURE 24. ALPHABET INC.: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 25. ALPHABET INC.: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 26. IBM: REVENUE, 2017-2019 (\$MILLION)

FIGURE 27. IBM: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 28. IBM: REVENUE SHARE BY REGION 2019 (%)

FIGURE 29. MICROSOFT CORPORATION: REVENUE, 2017–2019 (\$MILLION)

FIGURE 30. MICROSOFT CORPORATION: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 31. MICROSOFT CORPORATION: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 32. NVIDIA: REVENUE, 2018-2020 (\$MILLION)

FIGURE 33. NVIDIA: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 34. NVIDIA: REVENUE SHARE BY REGION, 2020 (%)

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Alphabet Inc., Atomwise, Inc., Benevolent AI, Cloud Pharmaceutical, Deep Genomics, Exscientia, IBM Corporation, Insilico Medicine Inc., Microsoft Corporation, and Nvidia Corporation



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