AI in Biotechnology: Global Markets

Market Research Report | 2025-08-27 | 142 pages | BCC Research

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Report description:

Description

Report Scope
The report analyzes the trends in the global market for AI in biotechnology. It includes global revenue ($ millions) for the base year of 2024 and estimated data for the forecast period 2025 through 2030. The market is segmented by product type (software and services), deployment (cloud-based and on-premises), application and end user. Applications consist of drug discovery, clinical trials, diagnostics and others. End users consist of pharmaceutical and biotech companies, academic research institutes, contract R&D organizations (CROs/CDMOs) and others. The regions covered in this study are North America, Europe, Asia-Pacific, the Middle East and Africa, and South America, with analysis of the markets in the U.S., Canada, Mexico, Germany, the U.K., Italy, France, Spain, the Rest of Europe, China, Japan, India, South Korea and the Rest of Asia-Pacific.
The report focuses on the trends and challenges that affect the market. It includes an analysis of the competitive landscape, with the ranking of leading companies and their market shares. It offers company profiles that covers such details as financials, product portfolio and recent developments. It analyzes companies' environmental, social and corporate governance (ESG) initiatives.
Report Includes
- 50 data tables and 57 additional tables
- An analysis of the current and future global markets for artificial intelligence (AI) in biotechnology
- Analyses of the global market trends, with historic revenue data (sales figures) from 2022 to 2024, estimates for 2025, and projected CAGRs through 2030
- Estimates of the size of the market and revenue prospects, along with a corresponding market share analysis based on product type, application, deployment type, end user, and region
- Facts and figures pertaining to market dynamics, technological advancements, regulations, prospects and the impact of macroeconomic variables
- Discussion of the underlying opportunities and potential, with the development of novel products, drug discovery, clinical trials

and other related applications
- Insights derived from Porter's Five Forces model and global supply chain analyses
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, as well as the ESG risk ratings and practices of leading companies
- Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a venture funding outlook
- Profiles of the leading companies, including NVIDIA Corp., Tempus AI Inc., Recursion Pharmaceuticals, Schrodinger Inc., and Sophia Genetics

Executive Summary

Summary:

The global market for AI in biotechnology was valued at $3.8 billion in 2024. The market is estimated to grow from $4.6 billion in 2025 to $11.4 billion by 2030, at a compound annual growth rate (CAGR) of 20% from 2025 to 2030.

Artificial intelligence (AI) is transforming the biotech industry by enabling faster, more precise and highly scalable operations in genetic engineering, personalized medicine, agricultural biotech and drug discovery. Biotech companies are using machine learning (ML) algorithms to evaluate complex biological data, predict protein structures, discover new drug candidates and improve diagnostic accuracy, including predictive analytics for early disease identification. AI also helps in optimizing manufacturing processes and supply chains, enabling it to have an impact across the entire biotech value chain.

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