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AI in Pathology Market by Neural Network (GAN, CNN, RNN), Function (Diagnostic, Image Analysis, CDSS, Data Management, Analytics), Use Case (Drug Discovery, Clinical Workflow), End User (Hospitals, Labs, Pharma/Biotech), & Region - Global Forecast to 2030

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Abstracts

The global AI in pathology market is expected to reach USD 347.39 million by 2030 from USD 107.43 million in 2025 at a high CAGR of 26.5% during the forecast period. According to the Personalized Medicine Coalition Report 2022, in 2023, the FDA approved 16 new personalized treatments for patients with rare diseases. Among the newly approved treatments are seven cancer drugs and three targeting other diseases and conditions. About 47% of these approved personalized therapies were indicated for treating cancer.

By use case, the drug discovery segment accounted for the largest share in 2024.

In 2024, the drug discovery segment accounted for the largest share of the AI in pathology market. Booming pharmaceutical & biotechnology R&D expenditure, the growing high-throughput screening & imaging, the increasing use of AI algorithms in pathology image analysis for the identification & classification of diseases, and the capability of AI to speed up the development of new therapeutics are expected to boost the market.

In 2024, the pharmaceutical & biopharmaceutical companies segment accounted for the largest share of the AI in pathology market, by end user.

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In 2024, the pharmaceutical & biopharmaceutical companies segment accounted for the largest market share due to advancements in drug discovery & development and the increasing use of AI in pathology for drug toxicology testing. Biotechnology companies use AI-based digital pathology for biobanking, biopharmaceutical studies, molecular assays, and the development of individualized medicine.

North America held the largest market share in 2024.

In 2024, North America accounted for the largest market share in the AI in pathology market due to strong investment in research & development and advanced healthcare infrastructure, which enables the use of high-tech machinery. The large patient pool and data availability help create a large database, which can be used to train the AI for higher accuracy and efficiency.

The breakdown of primary participants is as mentioned below:

By Company Type - Tier 1: 45%, Tier 2: 30%, and Tier 3: 25%

By Designation - C-level: 42%, Director-level: 31%, and Others: 27%

By Region - North America: 32%, Europe: 32%, Asia Pacific: 26%, Middle East & Africa: 5%, Latin America: 5%

Key Players

The key players in the AI in pathology market include Koninklijke Philips N.V. (Netherlands), F. Hoffmann-La Roche Ltd (Switzerland), Hologic, Inc. (US), Akoya Biosciences, Inc. (US), Aiforia Technologies Plc (Finland), Indica Labs Inc. (US), OptraScan (US), Ibex Medical Analytics Ltd. (Israel).

Research Coverage

The report estimates the market size and future growth potential of various market segments based on offering, neural network, use case, end user, function, and region. It also provides a competitive analysis of the key players in this market, along with their company profiles, product offerings, recent developments, and key market strategies.

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Reasons to Buy the Report

This report will enrich established firms and new entrants/smaller firms to gauge the market's pulse, which, in turn, would help them garner a higher share of the market. Firms purchasing the report could use one or a combination of the below-mentioned strategies to strengthen their positions in the market.

This report provides insights on:

Analysis of key drivers (development of CNNs and advanced AI models, Integration of AI into multiplex imaging, increasing cases of misdiagnoses in patients, benefits of AI-augmented telepathology, advancements in deep learning & image processing) restraints (high cost of digital pathology systems, limited AI expertise and varied regulatory guidelines for medical software, interoperability issues with legacy systems), opportunities (increasing demand for personalized medicine, integration of multi-omics data, and predictive analytics for disease progression) challenges (insufficient data for AI algorithms, data privacy, and ethical concerns, challenges associated with interpretability of AI models) influencing the growth of the AI in pathology market

Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and new product & service launches in the AI in pathology market

Market Development: Comprehensive information on the lucrative emerging markets by offering, neural network, function, use case, end user, and region

Market Diversification: Exhaustive information about the product portfolios, growing geographies, recent developments, and investments in the market

Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, and capabilities of the leading players

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