

Computational Pathology Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Computational Pathology Market Summary

The Computational Pathology market leverages AI and digital imaging to enhance diagnostic accuracy, achieving 95% sensitivity in cancer detection. This sector is defined by its use of whole-slide imaging (WSI), machine learning for pattern recognition, and integration with EHR systems. Key features include automated tumor grading, reducing pathologists' workload by 30%, and cloud-based platforms for remote analysis. The market supports hospitals and biotech firms, analyzing over 1M slides annually. Innovations like deep learning for biomarker detection and blockchain for data security drive adoption. The global Computational Pathology market is estimated to reach a valuation of approximately USD 400–800 million in 2025, with compound annual growth rates projected in the range of 7.0%–13.0% through 2030. Growth is fueled by rising cancer prevalence, digital pathology adoption, and AI advancements, positioning computational pathology as a transformative diagnostic tool.

Application Analysis and Market Segmentation

Hospitals & Diagnostic LabsHospitals and labs use WSI for cancer diagnostics, growing at 8%–13%, with AI reducing diagnosis time by 25%. Trends include telepathology for remote consults.

Biotechnology & Pharmaceutical CompaniesBiotech firms leverage AI for drug discovery, growing at 7.5%–12.5%, with 90% accuracy in biomarker analysis.

Academic & Research InstitutesResearch institutes, developing AI algorithms, grow at

7%–12%, with open-source platforms gaining traction.

OthersReference labs grow at 6.5%–11.5%, with cloud-based analytics.

By Component

SoftwareAI pathology software grows at 8%–13%, with deep learning improving specificity by 20%.

ServicesConsulting and integration services grow at 7%–12%, with remote training reducing costs by 15%.

Regional Market Distribution and Geographic Trends

Asia-Pacific: 8%–13% growth, with China's cancer diagnostics and Japan's AI research.

North America: 7.5%–12.5% growth, with U.S. hospital networks and Canada's research hubs.

Europe: 7%–12% growth, with Germany's digital labs and UK's NHS integrations.

Latin America: 7.5%–12.5% growth, with Brazil's oncology centers and Mexico's diagnostics.

Middle East & Africa: 7%–12% growth, with UAE's healthcare tech and South Africa's cancer programs.

Key Market Players and Competitive Landscape

Paige.AI: AI-driven diagnostics, \$200M funding.

PathAI: Cancer detection algorithms, 15% YoY growth.

Proscia: Cloud-based WSI, 10% market share.

Ibex Medical Analytics: Breast cancer diagnostics leader.

Aiforia: EU-focused AI platforms.

Visiopharm: Image analysis software.

Akoya Biosciences: Biomarker discovery, \$150M revenue.

Industry Value Chain AnalysisThe value chain spans algorithm development, imaging,

and diagnostic integration.

Raw Materials and Upstream Supply WSI scanners and cloud servers, with Paige.AI securing 1,000 units annually.

Production and Processing AI models process 10,000 slides daily, with PathAI scaling operations.

Distribution and Logistics Cloud delivery ensures 99% uptime.

Downstream Processing and Application Integration

Hospitals: AI diagnostics.

Biotech: Biomarker analysis. Downstream yields 25% margins via automation.

End-User Industries Labs capture value through 95% diagnostic accuracy.

Market Opportunities and Challenges

Opportunities Asia-Pacific's cancer rise drives AI adoption. Europe's digital labs boost growth, while Latin America's oncology expands. Cloud and telepathology enhance scalability, and biomarker niches grow.

Challenges High costs—\$500K per system—limit adoption. Regulatory delays slow approvals by 12 months. Data privacy risks 10% trust erosion, while pathologist training gaps impact integration.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Computational Pathology Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST COMPUTATIONAL PATHOLOGY MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Computational Pathology Market Size
- 8.2 Computational Pathology Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Computational Pathology Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST COMPUTATIONAL PATHOLOGY MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Computational Pathology Market Size
- 9.2 Computational Pathology Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Computational Pathology Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST COMPUTATIONAL PATHOLOGY MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Computational Pathology Market Size
- 10.2 Computational Pathology Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Computational Pathology Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST COMPUTATIONAL PATHOLOGY MARKET IN EUROPE (2020-2030)

- 11.1 Computational Pathology Market Size
- 11.2 Computational Pathology Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Computational Pathology Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST COMPUTATIONAL PATHOLOGY MARKET IN MEA (2020-2030)

- 12.1 Computational Pathology Market Size
- 12.2 Computational Pathology Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Computational Pathology Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL COMPUTATIONAL PATHOLOGY MARKET (2020-2025)

- 13.1 Computational Pathology Market Size
- 13.2 Computational Pathology Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Computational Pathology Market Size by Type

CHAPTER 14 GLOBAL COMPUTATIONAL PATHOLOGY MARKET FORECAST (2025-2030)

- 14.1 Computational Pathology Market Size Forecast
- 14.2 Computational Pathology Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Computational Pathology Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Paige.AI
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Computational Pathology Information
 - 15.1.3 SWOT Analysis of Paige.AI
 - 15.1.4 Paige.AI Computational Pathology Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 PathAI
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Computational Pathology Information
 - 15.2.3 SWOT Analysis of PathAI
 - 15.2.4 PathAI Computational Pathology Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Proscia
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Computational Pathology Information
 - 15.3.3 SWOT Analysis of Proscia
 - 15.3.4 Proscia Computational Pathology Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Ibex Medical Analytics
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Computational Pathology Information
 - 15.4.3 SWOT Analysis of Ibex Medical Analytics
 - 15.4.4 Ibex Medical Analytics Computational Pathology Revenue, Gross Margin and

Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms

Table Research Scope of Computational Pathology Report

Table Data Sources of Computational Pathology Report

Table Major Assumptions of Computational Pathology Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Computational Pathology Picture

Table Computational Pathology Classification

Table Computational Pathology Applications

Table Drivers of Computational Pathology Market

Table Restraints of Computational Pathology Market

Table Opportunities of Computational Pathology Market

Table Threats of Computational Pathology Market

Table COVID-19 Impact for Computational Pathology Market

Table Raw Materials Suppliers

Table Different Production Methods of Computational Pathology

Table Cost Structure Analysis of Computational Pathology

Table Key End Users

Table Latest News of Computational Pathology Market

Table Merger and Acquisition

Table Planned/Future Project of Computational Pathology Market

Table Policy of Computational Pathology Market

Table 2020-2030 North America Computational Pathology Market Size

Figure 2020-2030 North America Computational Pathology Market Size and CAGR

Table 2020-2030 North America Computational Pathology Market Size by Application

Table 2020-2025 North America Computational Pathology Key Players Revenue

Table 2020-2025 North America Computational Pathology Key Players Market Share

Table 2020-2030 North America Computational Pathology Market Size by Type

Table 2020-2030 United States Computational Pathology Market Size

Table 2020-2030 Canada Computational Pathology Market Size

Table 2020-2030 Mexico Computational Pathology Market Size

Table 2020-2030 South America Computational Pathology Market Size

Figure 2020-2030 South America Computational Pathology Market Size and CAGR

Table 2020-2030 South America Computational Pathology Market Size by Application

Table 2020-2025 South America Computational Pathology Key Players Revenue

Table 2020-2025 South America Computational Pathology Key Players Market Share

Table 2020-2030 South America Computational Pathology Market Size by Type
Table 2020-2030 Brazil Computational Pathology Market Size
Table 2020-2030 Argentina Computational Pathology Market Size
Table 2020-2030 Chile Computational Pathology Market Size
Table 2020-2030 Peru Computational Pathology Market Size
Table 2020-2030 Asia & Pacific Computational Pathology Market Size
Figure 2020-2030 Asia & Pacific Computational Pathology Market Size and CAGR
Table 2020-2030 Asia & Pacific Computational Pathology Market Size by Application
Table 2020-2025 Asia & Pacific Computational Pathology Key Players Revenue
Table 2020-2025 Asia & Pacific Computational Pathology Key Players Market Share
Table 2020-2030 Asia & Pacific Computational Pathology Market Size by Type
Table 2020-2030 China Computational Pathology Market Size
Table 2020-2030 India Computational Pathology Market Size
Table 2020-2030 Japan Computational Pathology Market Size
Table 2020-2030 South Korea Computational Pathology Market Size
Table 2020-2030 Southeast Asia Computational Pathology Market Size
Table 2020-2030 Australia Computational Pathology Market Size
Table 2020-2030 Europe Computational Pathology Market Size
Figure 2020-2030 Europe Computational Pathology Market Size and CAGR
Table 2020-2030 Europe Computational Pathology Market Size by Application
Table 2020-2025 Europe Computational Pathology Key Players Revenue
Table 2020-2025 Europe Computational Pathology Key Players Market Share
Table 2020-2030 Europe Computational Pathology Market Size by Type
Table 2020-2030 Germany Computational Pathology Market Size
Table 2020-2030 France Computational Pathology Market Size
Table 2020-2030 United Kingdom Computational Pathology Market Size
Table 2020-2030 Italy Computational Pathology Market Size
Table 2020-2030 Spain Computational Pathology Market Size
Table 2020-2030 Belgium Computational Pathology Market Size
Table 2020-2030 Netherlands Computational Pathology Market Size
Table 2020-2030 Austria Computational Pathology Market Size
Table 2020-2030 Poland Computational Pathology Market Size
Table 2020-2030 Russia Computational Pathology Market Size
Table 2020-2030 MEA Computational Pathology Market Size
Figure 2020-2030 MEA Computational Pathology Market Size and CAGR
Table 2020-2030 MEA Computational Pathology Market Size by Application
Table 2020-2025 MEA Computational Pathology Key Players Revenue
Table 2020-2025 MEA Computational Pathology Key Players Market Share
Table 2020-2030 MEA Computational Pathology Market Size by Type

Table 2020-2030 Egypt Computational Pathology Market Size
Table 2020-2030 Israel Computational Pathology Market Size
Table 2020-2030 South Africa Computational Pathology Market Size
Table 2020-2030 Gulf Cooperation Council Countries Computational Pathology Market Size
Table 2020-2030 Turkey Computational Pathology Market Size
Table 2020-2025 Global Computational Pathology Market Size by Region
Table 2020-2025 Global Computational Pathology Market Size Share by Region
Table 2020-2025 Global Computational Pathology Market Size by Application
Table 2020-2025 Global Computational Pathology Market Share by Application
Table 2020-2025 Global Computational Pathology Key Vendors Revenue
Figure 2020-2025 Global Computational Pathology Market Size and Growth Rate
Table 2020-2025 Global Computational Pathology Key Vendors Market Share
Table 2020-2025 Global Computational Pathology Market Size by Type
Table 2020-2025 Global Computational Pathology Market Share by Type
Table 2025-2030 Global Computational Pathology Market Size by Region
Table 2025-2030 Global Computational Pathology Market Size Share by Region
Table 2025-2030 Global Computational Pathology Market Size by Application
Table 2025-2030 Global Computational Pathology Market Share by Application
Table 2025-2030 Global Computational Pathology Key Vendors Revenue
Figure 2025-2030 Global Computational Pathology Market Size and Growth Rate
Table 2025-2030 Global Computational Pathology Key Vendors Market Share
Table 2025-2030 Global Computational Pathology Market Size by Type
Table 2025-2030 Computational Pathology Global Market Share by Type
Table Paige.AI Information
Table SWOT Analysis of Paige.AI
Table 2020-2025 Paige.AI Computational Pathology Revenue Gross Profit Margin
Figure 2020-2025 Paige.AI Computational Pathology Revenue and Growth Rate
Figure 2020-2025 Paige.AI Computational Pathology Market Share
Table PathAI Information
Table SWOT Analysis of PathAI
Table 2020-2025 PathAI Computational Pathology Revenue Gross Profit Margin
Figure 2020-2025 PathAI Computational Pathology Revenue and Growth Rate
Figure 2020-2025 PathAI Computational Pathology Market Share
Table Proscia Information
Table SWOT Analysis of Proscia
Table 2020-2025 Proscia Computational Pathology Revenue Gross Profit Margin
Figure 2020-2025 Proscia Computational Pathology Revenue and Growth Rate
Figure 2020-2025 Proscia Computational Pathology Market Share

Table Ibex Medical Analytics Information

Table SWOT Analysis of Ibex Medical Analytics

Table 2020-2025 Ibex Medical Analytics Computational Pathology Revenue Gross Profit Margin

Figure 2020-2025 Ibex Medical Analytics Computational Pathology Revenue and Growth Rate

Figure 2020-2025 Ibex Medical Analytics Computational Pathology Market Share

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