

On October 21, 2025, Hologic announced plans to be acquired by Blackstone and TPG in a deal

valued at up to \$18.3 billion, focusing on women's health diagnostics.

Japan – Industry News

□ Sysmex partners with QIAGEN for exclusive distribution

On October 1, 2025, Sysmex and QIAGEN concluded an exclusive agreement to distribute QIAGEN's clinical diagnostic instruments and reagents in Japan.

□ A.D.A.M. Innovations and SOPHiA GENETICS partner for liquid biopsy

On October 16, 2025, A.D.A.M. Innovations and SOPHiA GENETICS announced a partnership to advance liquid biopsy testing and companion diagnostics in Japan.

□ Illumina's TruSight Oncology Comprehensive receives regulatory approval

On May 26, 2025, Illumina's TruSight™ Oncology Comprehensive test for cancer genomic profiling received regulatory approval in Japan.

South Korea – Industry News

□ Seegene launches STAgora platform

In July 2025, Seegene launched STAgora, a real-time infectious disease analytics platform integrating diagnostic data with AI and statistical modeling.

Europe – Industry News

□ Roche acquires 89bio for metabolic disease treatment

On October 23, 2025, Roche announced a merger agreement to acquire 89bio and its phase III FGF21 analogue for the treatment of metabolic dysfunction-associated steatohepatitis.

□ AstraZeneca to acquire EsoBiotec for up to \$1 billion

On March 17, 2025, AstraZeneca announced an agreement to acquire biotechnology company EsoBiotec for up to \$1 billion, aiming to bolster its cell therapy capabilities.

□ Broad Institute and Illumina launch AI-integrated precision medicine research platforms

In April 2025, the Broad Institute and Illumina launched AI-integrated precision medicine research platforms combining genomics, transcriptomics, and biomarker analytics.

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Market Segmentation

- By Product Type (Reagents, Instruments, and Software)
- By Technology (Polymerase Chain Reaction (PCR), Next-Generation Sequencing (NGS), In Situ Hybridization (ISH), and Others)
- By Application (Breast Cancer, Prostate Cancer, Colorectal Cancer, Cervical Cancer, Liver Cancer, Lung Cancer, Blood Cancer, and others)
- By End-User (Hospitals, Clinical Laboratories, and Others)

Regional Insights

- North America: Dominated the market in 2024 with a share of 44.69%, attributed to strong healthcare infrastructure, high cancer incidence, and robust adoption of molecular diagnostic

technologies.

- Asia-Pacific: Expected to witness the fastest growth during the forecast period, driven by increasing cancer awareness, improving healthcare access, and government initiatives in countries like China and India.
- Europe: Experiencing steady growth, supported by national screening programs and a shift towards personalized oncology care.

Key Market Segments

□ By Cancer Type:

- o Breast Cancer: Held the largest market share in 2024, driven by early detection programs and targeted therapies.
- o Liver Cancer: Anticipated to grow at a remarkable CAGR of 13.9% between 2025 and 2034.

□ By Technology:

- o PCR: Led the market with over 32% share in 2024.
- o NGS: Expected to expand at the fastest CAGR, offering comprehensive genomic profiling capabilities.

□ By Sample Type:

- o Tissue Biopsy: Retained a significant share in 2024.
- o Liquid Biopsy: Advancing rapidly with a CAGR of 14.32%, enabling non-invasive cancer detection.

□ By Product:

- o Reagents: Dominated the market with over 59% share in 2024

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Future Outlook

The oncology molecular diagnostics market is poised for significant growth, driven by:

- Technological Innovations: Advancements in AI-driven diagnostics and the development of more efficient molecular profiling tools.
- Integration into Clinical Practice: Increased incorporation of molecular diagnostics into routine clinical workflows for cancer detection and monitoring.
- Global Expansion: Efforts to improve healthcare access and infrastructure in emerging markets, facilitating broader adoption of molecular diagnostic technologies.

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