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# Global Pan-cancer Genetic Testing Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Pan-cancer Genetic Testing market size is predicted to grow from US$ 6143 million in 2025 to US$ 15230 million in 2032; it is expected to grow at a CAGR of 13.9% from 2026 to 2032.

Pan-cancer Genetic Testing refers to clinical diagnostic and precision oncology solutions that use targeted next-generation sequencing, whole-exome sequencing, whole-transcriptome sequencing, or multimodal molecular analysis to profile cancer-related genomic alterations and biomarkers across multiple solid tumors or hematologic malignancies. Major targets include single nucleotide variants, insertions and deletions, copy number alterations, gene fusions and rearrangements, as well as genomic signatures such as tumor mutational burden, microsatellite instability, and homologous recombination deficiency. Commercial offerings include centralized laboratory testing services, tissue and liquid biopsy assay kits, integrated testing systems, and associated bioinformatics solutions. These tests are mainly used for targeted therapy selection, immunotherapy assessment, clinical trial matching, molecular classification, and resistance analysis. Key upstream inputs include specimen collection components, nucleic acid extraction and library preparation reagents, capture probes, sequencing flow cells, quality controls, sequencing platforms, bioinformatics algorithms, and genomic databases. Major downstream customers include hospitals, cancer centers, independent clinical laboratories, pathology laboratories, pharmaceutical and biotechnology companies, and clinical research organizations. The estimated industry gross margin is generally approximately 50%–70%.

The global Pan-cancer Genetic Testing market is shifting from sequential single-gene and tumor-specific testing toward comprehensive genomic profiling. As the number of actionable alterations, immunotherapy biomarkers, and tumor-agnostic treatment

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indications increases, sequential testing has become less efficient because of tissue consumption, longer turnaround times, and cumulative cost. Large genomic panels can evaluate multiple variant classes and genomic signatures in a single test and are therefore gaining adoption among patients with advanced solid tumors or limited standard treatment options. North America is primarily characterized by centralized reference laboratory services, while Europe and Japan rely more heavily on combinations of approved products and designated hospital networks. China has developed a mixed structure that includes centralized testing services, hospital-based laboratories, and locally manufactured standardized assay kits.

Tissue-based testing remains the foundation of comprehensive genomic profiling, but liquid biopsy is becoming an important complementary option for patients with insufficient tissue, high biopsy risk, or a need for faster results. Testing scope is expanding from targeted panels containing several hundred genes toward integrated DNA and RNA analysis, matched tumor-normal sequencing, whole-exome sequencing, and whole-transcriptome sequencing. RNA analysis can improve the detection of gene fusions and abnormal splicing events, while matched-normal analysis can distinguish somatic alterations from germline variants and clonal hematopoiesis signals. Future differentiation will depend increasingly on analytical performance in low-tumor-content samples, fusion detection, turnaround time, the strength of clinical evidence, and the actionability of report interpretation rather than on gene count alone.

Market growth is supported by the expansion of precision oncology, increasing numbers of tumor-agnostic targeted and immunotherapy indications, stronger guideline recommendations, and broader availability of hospital NGS infrastructure. Drug development programs increasingly stratify patients according to shared molecular alterations across different tumor types rather than according to the organ of origin alone. Pharmaceutical demand for companion diagnostic development, clinical trial recruitment, biomarker strategy, and real-world evidence also provides testing companies with revenue opportunities beyond routine patient testing. As sequencing costs decline, workflows become more automated, and reimbursement coverage improves, pan-cancer testing is expected to extend from late-stage and rare cases toward earlier treatment stages and a broader patient population.

The industry nevertheless faces constraints related to specimen quality, testing cost, reimbursement, and the clinical conversion of genomic findings. Differences in gene coverage, sequencing depth, variant thresholds, and reporting rules may lead to inconsistent results across laboratories. Some patients have potentially actionable alterations but cannot access the matched treatment because of regulatory indications,

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drug availability, or the location of relevant clinical trials. Competition between hospital-developed assays and centralized laboratory services may place pressure on pricing and lead to duplicated infrastructure investment. Future competitive advantage will depend on regulatory approvals, companion diagnostic partnerships, liquid biopsy performance, interpretation capabilities, reimbursement access, and evidence of clinical utility, while companies must also address incidental germline findings, informed consent, and the security of genomic data.

LPI (LP Information)' newest research report, the “Pan-cancer Genetic Testing Industry Forecast” looks at past sales and reviews total world Pan-cancer Genetic Testing sales in 2025, providing a comprehensive analysis by region and market sector of projected Pan-cancer Genetic Testing sales for 2026 through 2032. With Pan-cancer Genetic Testing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Pan-cancer Genetic Testing industry.

This Insight Report provides a comprehensive analysis of the global Pan-cancer Genetic Testing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Pan-cancer Genetic Testing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Pan-cancer Genetic Testing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pan-cancer Genetic Testing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pan-cancer Genetic Testing.

This report presents a comprehensive overview, market shares, and growth opportunities of Pan-cancer Genetic Testing market by product type, application, key players and key regions and countries.

## Segmentation by Type:

Tissue-based Testing

Liquid Biopsy Testing

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Other

## Segmentation by Testing Scope:

Medium Panels (50–199 Genes)

Large Panels (200–599 Genes)

Extended Panels (600–999 Genes)

Other

## Segmentation by Technology:

Targeted NGS

Whole-exome Sequencing

Whole-transcriptome Sequencing

Other

## Segmentation by Application:

Hospitals and Cancer Centers

Independent Clinical Laboratories

Other

## This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Roche

Guardant Health

Caris Life Sciences

Tempus AI

Labcorp

NeoGenomics

Exact Sciences

Personalis

Illumina

Thermo Fisher Scientific

QIAGEN

Agilent Technologies

SOPHiA GENETICS

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Sysmex

Burning Rock Biotech

Genetron Health

Geneseeq

BGI Genomics

Amoy Diagnostics

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