

# **Cancer/Tumor Profiling Market by Biomarker Type (Genetic, Protein) Technology (NGS, PCR, ISH, IHC) Cancer Type (Breast, Lung, Colorectal, Prostate, Leukemia) Application (Clinical, Research) End User (Pharma, Academic, CRO) - Global Forecast to 2030**

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## **Abstracts**

Cancer/Tumor Profiling Market by Biomarker Type (Genetic, Protein) Technology (NGS, PCR, ISH, IHC) Cancer Type (Breast, Lung, Colorectal, Prostate, Leukemia) Application (Clinical, Research) End User (Pharma, Academic, CRO)—Global Forecast to 2030

The global cancer/tumor profiling market is projected to reach \$22.3 billion by 2030, at a CAGR of 20.9% from 2023 to 2030.

Succeeding extensive secondary and primary research and in-depth analysis of the market scenario, the report comprises the analysis of key industry drivers, restraints, challenges, and opportunities. The growth of the cancer/tumor profiling market is attributed to the increasing prevalence of cancer, the rising pharmaceutical R&D expenditures, the growing number of targeted therapies and the discovery of new actionable biomarkers, increasing investments in cancer research, the declining costs of NGS-based profiling, and advancements in multi-omics tumor profiling. However, the high capital investments required for NGS setups and long turnaround times restrain the growth of this market.

Additionally, the increasing focus on developing personalized medicines and the rising awareness and adoption of targeted therapies are expected to generate market growth opportunities. However, the lack of genetic experts for interpreting results, the non-availability of in-house tumor profiling technologies, and the high number of false biomarker discoveries are major challenges for the stakeholders in the cancer/tumor

profiling market.

Based on biomarker type, in 2023, the genetic biomarkers segment is expected to account for the largest share of the market. The large market share of this segment is attributed to the effectiveness of genetic biomarkers as targets for therapeutic treatments, their role in enhancing treatment delivery, and their utility in facilitating convenient disease diagnosis.

Based on technology, in 2023, the next-generation sequencing (NGS) segment is expected to account for the largest share of the market. The large market share of the segment is attributed to the growing adoption of NGS in cancer/tumor profiling, its ability to provide faster and more accurate genetic testing, the rapidly declining cost of sequencing per base, and the introduction of cost-effective benchtop laboratory sequencers.

Based on cancer type, the cancer/tumor profiling market is segmented into breast cancer, colorectal cancer, lung cancer, prostate cancer, lymphoma, leukemia, cervical cancer, and other cancer types. In 2023, the breast cancer segment is expected to account for the largest share of the cancer/tumor profiling market. The increase in breast cancer cases, government initiatives promoting breast cancer treatment, increasing healthcare expenditure, and reimbursement for certain profiling technologies such as NGS have propelled the demand for cancer/tumor profiling for breast cancer.

Based on application, the research applications segment is expected to account for the largest share of the market. The large market share of this segment is attributed to the rising incidence of cancer, the growing demand for precision medicine, the increased discovery of biomarkers, and the availability of cost-effective advanced profiling technologies like NGS and PCR for research applications.

Based on end user, in 2023, the pharmaceutical & biopharmaceutical companies segment is expected to account for the largest share of the market. The large market share of this segment is attributed to the declining costs of sequencing, the development of companion diagnostics and precision medicine, and the high demand for cancer/tumor profiling from pharmaceutical and biopharmaceutical companies, primarily for biomarker discovery purposes.

An in-depth analysis of the geographical scenario of the global cancer/tumor profiling market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and the Middle East

& Africa) along with the coverage of major countries in each region. In 2023, North America is expected to account for the largest share of the cancer/tumor profiling market, followed by Europe, Asia-Pacific, Latin America, and the Middle East & Africa. North America's significant market share can be attributed to factors such as the rising burden of cancer, the presence of key market players, well-established healthcare infrastructure, and government initiatives aimed at bolstering cancer research efforts.

The key players operating in the global cancer/tumor profiling market are Thermo Fisher Scientific Inc. (U.S.), Illumina, Inc. (U.S.), QIAGEN N.V. (Netherlands), F. Hoffmann-La Roche Ltd. (Switzerland), Agilent Technologies, Inc. (U.S.), NanoString Technologies, Inc. (U.S.), HTG Molecular Diagnostics, Inc. (U.S.), Agendia Inc. (U.S.), Personalis, Inc. (U.S.), Exact Sciences Corporation (U.S.), and Tempus Labs, Inc. (U.S.).

Scope of the Report:

#### Cancer/Tumor Profiling Market Assessment—by Biomarker Type

Protein Biomarkers

Genetic Biomarkers

#### Cancer/Tumor Profiling Market Assessment—by Technology

Next-Generation Sequencing (NGS)

Polymerase Chain Reaction (PCR)

In-situ hybridization (ISH)

Immunohistochemistry (IHC)

Other Technologies

Note: Other technologies include immunoassays, microarrays, mass spectrometers, Sanger sequencing, pyrosequencing, and fragment analysis

#### Cancer/Tumor Profiling Market Assessment—by Application

*Cancer/Tumor Profiling Market by Biomarker Type (Genetic, Protein) Technology (NGS, PCR, ISH, IHC) Cancer Type...*

Clinical Applications

Research Applications

### Cancer/Tumor Profiling Market Assessment—by Cancer Type

Breast Cancer

Colorectal Cancer

Lung Cancer

Prostate Cancer

Lymphoma

Leukemia

Cervical Cancer

Other Cancer Types

Note: Other cancer types include bladder cancer, melanoma, kidney cancer, stomach cancer, ovarian cancer, thyroid cancer, and head & neck cancers

### Cancer/Tumor Profiling Market Assessment—by End User

Pharmaceutical & Biopharmaceutical Companies

Hospitals & Diagnostic Laboratories

Academic & Research Institutes

Contract Research Organizations (CROs)

### Cancer/Tumor Profiling Market Assessment—by Geography

North America

U.S.

Canada

Europe

Germany

France

Italy

U.K.

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Rest of Asia-Pacific

Latin America

Middle East & Africa

## Contents

### 1. INTRODUCTION

- 1.1. Market Definition and Scope
- 1.2. Market Ecosystem
- 1.3. Currency and Limitation
- 1.4. Key Stakeholders

### 2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Process of Data Collection and Validation
  - 2.2.1. Secondary Research
  - 2.2.2. Primary Research/Interviews with Key Opinion Leaders of the Industry
- 2.3. Market Sizing and Forecast
  - 2.3.1. Market Size Estimation Approach
  - 2.3.2. Growth Forecast Approach
  - 2.3.3. Market Share Analysis
- 2.4. Assumptions for the Study

### 3. EXECUTIVE SUMMARY

### 4. MARKET INSIGHTS

- 4.1. Overview
- 4.2. Factors Affecting Market Growth
  - 4.2.1. Impact Analysis of Market Dynamics
  - 4.2.2. Factor Analysis
- 4.3. Regulatory Analysis
  - 4.3.1. North America
    - 4.3.1.1. U.S.
    - 4.3.1.2. Japan
    - 4.3.1.3. India
    - 4.3.1.4. Canada
  - 4.3.2. Europe
  - 4.3.3. Asia-Pacific
    - 4.3.3.1. China

- 4.3.3.2. Japan
- 4.3.3.3. India
- 4.3.4. Latin America
- 4.3.5. Middle East
- 4.4. Porter's Five Forces Analysis
  - 4.4.1. Bargaining Power of Buyers
  - 4.4.2. Bargaining Power of Suppliers
  - 4.4.3. Threat of Substitutes
  - 4.4.4. Threat of New Entrants
  - 4.4.5. Degree of Competition

## **5. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY BIOMARKER TYPE**

- 5.1. Overview
- 5.2. Genetic Biomarkers
- 5.3. Protein Biomarkers

## **6. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY CANCER TYPE**

- 6.1. Overview
- 6.2. Breast Cancer
- 6.3. Colorectal Cancer
- 6.4. Lung Cancer
- 6.5. Prostate Cancer
- 6.6. Lymphoma
- 6.7. Leukemia
- 6.8. Cervical Cancer
- 6.9. Other Cancer Types

## **7. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY TECHNOLOGY**

- 7.1. Overview
- 7.2. Next-Generation Sequencing (NGS)
- 7.3. Polymerase Chain Reaction (PCR)
- 7.4. In Situ Hybridization (ISH)
- 7.5. Immunohistochemistry (IHC)
- 7.6. Other Technologies

## **8. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY APPLICATION**

- 8.1. Overview
- 8.2. Research Applications
- 8.3. Clinical Applications

## **9. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY END USER**

- 9.1. Overview
- 9.2. Pharmaceutical & Biopharmaceutical Companies
- 9.3. Hospitals & Diagnostic Laboratories
- 9.4. Academic & Research Institutes
- 9.5. Contract Research Organizations (CROs)

## **10. CANCER/TUMOR PROFILING MARKET ASSESSMENT—BY GEOGRAPHY**

- 10.1. Overview
- 10.2. North America
  - 10.2.1. U.S.
  - 10.2.2. Canada
- 10.3. Europe
  - 10.3.1. Germany
  - 10.3.2. France
  - 10.3.3. U.K.
  - 10.3.4. Italy
  - 10.3.5. Spain
  - 10.3.6. Rest of Europe
- 10.4. Asia-Pacific
  - 10.4.1. China
  - 10.4.2. Japan
  - 10.4.3. India
  - 10.4.4. Rest of Asia-Pacific
- 10.5. Latin America
- 10.6. Middle East & Africa

## **11. COMPETITION ANALYSIS**

- 11.1. Overview
- 11.2. Key Growth Strategies
- 11.3. Competitive Benchmarking



- 11.4. Market Share Analysis (2022)
  - 11.4.1. Thermo Fisher Scientific Inc. (U.S.)
  - 11.4.2. Illumina, Inc. (U.S.)
  - 11.4.3. F. Hoffmann-La Roche Ltd (Switzerland)
  - 11.4.4. Exact Sciences Corporation (U.S.)
  - 11.4.5. Qiagen N.V. (Netherlands)
- 11.5. Competitive Dashboard
  - 11.5.1. Industry Leaders
  - 11.5.2. Market Differentiators
  - 11.5.3. Vanguard
  - 11.5.4. Emerging Companies

## **12. COMPANY PROFILES**

- 12.1. Thermo Fisher Scientific, Inc.
- 12.2. Illumina, Inc.
- 12.3. Qiagen N.V.
- 12.4. F. Hoffmann-La Roche Ltd
- 12.5. Exact Sciences Corporation
- 12.6. Agilent Technologies, Inc.
- 12.7. NanoString Technologies, Inc.
- 12.8. HTG Molecular Diagnostics, Inc.
- 12.9. Agendia Inc.
- 12.10. Personalis, Inc.
- 12.11. Tempus Labs, Inc.

## **13. APPENDIX**

- 13.1. Available Customization
- 13.2. Related Reports

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