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Circulating Tumor Cell Market By Product (Kits & Reagents, Blood Collection Tubes, Devices) , By Technology (CTC Detection & Enrichment Methods, CTC Direct Detection, CTC Analysis) By Application (Research, Clinical, Drug/Therapy Development) By Specimen (Blood, Bone Marrow, Other Body Fluids) By End User (Hospital and Clinics, Diagnostic Centers, Research and Academic Institutes) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The global circulating tumor cell market was valued at $1,122.0 million in 2021, and is projected to reach $5,882.72 million by 2031, registering a CAGR of 18.0%.

Circulating cancer cells are the cells formed due to the process of cell metastasis, which is the most lethal state of cancer. These cells are generally sloughed off from the primary tumor and get circulated into the blood circulation. These circulating tumor cells may undergo intravasation, survival, and extravasation from the bloodstream, and get attached to metastatic site to form colonies and lead to cancer metastasis. Though, CTCs originate from the primary tumor, they are different from primary tumor cells, having epithelial-mesenchymal transition properties, which break them free from the primary tumor. However, CTCs are very rare in nature and hence, are challenging to detect in massive blood cells. They can be further detected using molecular markers that are unique for particular form of cancer and are used for CTC detection. However, epithelial cell adhesion molecule is the most commonly employed molecular marker for

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the detection of CTCs.

Moreover, detection of CTC is a complex process, which involves the use of advanced technologies for the detection and enumeration of circulating tumor cells. As circulating tumor cells assists in the early detection and real-time monitoring of lung, breast, digestive tract, and prostate cancer, there is a rise in the demand for these techniques and technologies, which are used for CTC detection. In addition, rise in the use of CTC in preclinical cancer medication research and patient metastasis screening boosts the market growth.

Furthermore, increase in prevalence of cancer is one of the major factors contributing to the market growth. For instance, according to an article by National Cancer Institute (NCI) in 2020, an estimated 1,806,590 new cases of cancer were diagnosed in the U.S. and 606,520 people died from the cancer and related conditions. In addition, presence of circulating tumor cells in the patient proves to be an indication for cancer. Thus, it can be used for an early detection of cancer, thereby assisting the healthcare provider in deciding the treatment regime.

Furthermore, advancements in the field of diagnosis and treatments of cancer is driving the market growth. Several advancements have been done by researchers and manufacturers in the healthcare sector, which makes the diagnosis and treatment procedure more efficient and accurate. There are also huge advancements in the field of circulating tumor cells. For instance, the development of Parsortix method, Cell search system, Epic Sciences method, and Maintrac system has made the detection of circulating tumor cells easier and more efficient. Thus, such advances in the healthcare sector along with major developments in circulating tumor cell detection, augments the growth of the circulating tumor cell market.

The circulating tumor cell market is segmented on the basis of technology, application, end user, and region. By technology, the market is categorized into CTC detection and enrichment methods, CTC direct detection methods, and CTC analysis. The CTC detection and enrichment methods segment is further segmented into immunocapture, size-based separation, density-based separation, combined methods, and others. On the other hand, the CTC direct detection methods segment is further divided into surface-enhanced Raman scattering (SERS), microscopy, and others.

On the basis of application, the market is segmented into clinical and research. On the basis end user, it is segmented into hospitals and clinics, diagnostic centers, and others. The others segment includes, research centers and academic research

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institutes. Region-wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA. Some of the major companies that operate in the global circulating tumor cell market are Biocept, Inc., Greiner AG (Greiner Bio One International GmbH), Menarini Group (Menarini Silicon Biosystems), Miltenyi Biotec, Precision Medicine Group (Precision for medicine), Qiagen N.V., SRI International, Stemcell Technologies Inc., Sysmex Corporation, and Thermo Fisher Scientific.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the circulating tumor cell market analysis from 2021 to 2031 to identify the prevailing circulating tumor cell market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the circulating tumor cell market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global circulating tumor cell market trends, key players, market segments, application areas, and market growth strategies.

Additional benefits you will get with this purchase are:

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Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Expanded list for Company Profiles

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- Historic market data

Key Market Segments

By Product

- Kits Reagents
- Blood Collection Tubes
- Devices

By Technology

- CTC Detection Enrichment Methods
- CTC Direct Detection
- CTC Analysis

By Application

- Research, Clinical
- Drug/Therapy Development

By Specimen

- Blood
- Bone Marrow
- Other Body Fluids

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By End User

- Hospital and Clinics
- Diagnostic Centers
- Research and Academic Institutes

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
- Japan
- China

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Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Qiagen NV.

Bio-Techne Corporation

Precision for Medicine, Inc.

AVIVA Biosciences

BioCEP Ltd

Fluxion Biosciences, Inc

Greiner Bio-One International GmbH

Ikonisys, Inc

Miltenyi Biotec GmbH.

IVDiagnostics, Inc

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