# Global Markets and Technologies for Cell and Tissue Analysis

Market Research Report | 2023-03-24 | 151 pages | BCC Research

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**Report description:**

Description

Report Scope:

This report focuses on the global market of cell and tissue analysis (CTA) products and provides an updated review, including basic design and applications in various arenas of biomedical and life science research. The report deals with CTA products covering the total market, which includes three main areas of applications. These are biospecimen preparation techniques, cell separation products, and cell and tissue characterization products. These categories are further subdivided into various types. The report also covers the market for cell and tissue analysis products by end user. The end users of cell and tissue analysis products are categorized as research and academics, biopharmaceuticals, and healthcare and clinical. Excluded from this report are immunoassays.

BCC Research analyzed each market and its application, regulatory environment, new products and advancements, patent analysis, market projections, and market shares. The current report provides a detailed analysis of the market's drivers, challenges, opportunities, and impact of COVID-19. The report also covers market projections to 2027 and market share for key market players. The report includes the company profiles of the key players with detailed information about their business segments, financials, product portfolios, and recent developments.

Report Includes:

- 30 data tables and 20 additional tables
- A detailed overview and an up-to-date analysis of the global market for cell and tissue analysis (CTA) products and technologies
- Analyses of the global market trends, with market revenue data from 2019 to 2021, estimates for 2022, and projections of compound annual growth rates (CAGRs) through 2027

- Discussion of the industry growth driving factors and restraints that will shape the market for CTA products as the basis for projecting demand over the next few years (2022-2027)
- Estimation of the actual market size and revenue forecast for global cell and tissue analysis products market in USD millions, and corresponding market share analysis by type, application, end-user, and region
- Review of the commercialized products used in the isolation, purification, and analysis of cells, as well as novel products and technologies that may be commercially viable in the next few years
- Identification of large and established producers in cell and tissue analysis product market segments, as well as numerous smaller specialized market players
- Insight into the recent industry structure, government regulations and policies, development issues, and the vendor landscape
- Information about patents and patent applications for cell and tissue analysis products and technologies by each major category
- Market share analysis of the key market participants, along with their research priorities, product portfolios, and competitive landscape
- Detailed company profiles of the leading industry players, including Agilent Technologies Inc., Bio-Rad Laboratories Inc., General Electric Healthcare, Merck KGaA, PerkinElmer and Thermo Fisher Scientific Inc.

Executive Summary

Summary:

Cell and tissue analysis products are playing pivotal roles in biomedical research. In the expanding field of biomedical research and development researchers and scientists employ a variety of cell and tissue analysis products. These products play important roles in the diagnosis of various forms of cancer and other diseases and also assume crucial roles when it comes to understanding diverse cellular activities. With the rise of chronic and infectious diseases, there is an urgent need for efficient diagnostics and better healthcare conditions to treat diseases. Along with the recent intensification of research in academia and the biomedical industry, demand is increasing significantly for advanced technology for drug development and screening.

Personalized drug treatment is becoming a reality. In response to the rise in the incidence of a number of diseases and an aging population, the drug discovery industry is developing newand more efficacious drugs based on specific biomarker signatures and hence cell and tissue analysis technologies will also help in personalized drug development.

Apart fromthis the increasing demand for single cell analysis and the extensive research ongoing in this area will further contribute to the market. Other drivers contributing to the market include advances in technologies and product launches, increasing prevalence of chronic diseases, an aging population, and rising investments and funding. However, the market is facing some challenges such as the high cost of instruments, lack of skilled labor and stringent regulations.

The global market for cell and tissue analysis was estimated to be REDACTED in 2021 and is expected to increase to REDACTED in 2027, growing at a CAGR of REDACTED during the forecast period. In this report the cell and tissue analysis market is segmented based on technology type, end user and region. Major players in the market are Thermo Fisher Scientific, Danaher, Becton, Dickinson & Co., Illumina, and Agilent Technologies. Technology types covered are biospecimen technology, cell separation, and cell and tissue characterization. Based on type, the cell and tissue characterization segment has the highest share. Each type is further categorized into subtypes.

North America has the highest share of the market by region, followed by Europe. Extensive R&D activities take place in the region, there are major players present, there is plentiful funding, and there is an increasing prevalence of chronic diseases. All these factors will contribute to growth in the market.

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