

# Global Markets and Technologies for Cell and Tissue Analysis

<https://marketpublishers.com/r/G79A388DCF1EN.html>

Date: March 2023

Pages: 151

Price: US\$ 5,500.00 (Single User License)

ID: G79A388DCF1EN

## Abstracts

### 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.

## Contents

### CHAPTER 1 INTRODUCTION

- 1.1 Study Goals and Objectives
- 1.2 Scope of Report
- 1.3 Reason for Doing This Study
- 1.4 What's New in This Update?
- 1.5 Information Sources
- 1.6 Methodology
- 1.7 Geographic Breakdown
- 1.8 Analyst's Credentials
- 1.9 BCC Custom Research
- 1.10 Related BCC Research Reports

### CHAPTER 2 SUMMARY AND HIGHLIGHTS

### CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

- 3.1 Introduction
  - 3.1.1 History
  - 3.1.2 Cells
  - 3.1.3 Animal Tissue
- 3.2 Classification of Techniques Used in Cell and Tissue Analysis
- 3.3 Biospecimen Techniques
  - 3.3.1 Microarray
  - 3.3.2 Tissue Microarrays
  - 3.3.3 Cellular Microarray
  - 3.3.4 DNA Microarray or DNA Chip
  - 3.3.5 Protein Microarray or Peptide Chip
- 3.4 Cell-Separation Techniques
  - 3.4.1 Mechanical and Physical Dissociation
  - 3.4.2 Based on Adherence
  - 3.4.3 Based on Size and Density
  - 3.4.4 Based on Affinity
  - 3.4.5 Lab-on-Chip Techniques
- 3.5 Cell and Tissue Characterization
  - 3.5.1 Cell-Based Assays
  - 3.5.2 Histology and Immunohistochemistry

- 3.5.3 Flow Cytometry
- 3.5.4 Genotyping and Expression Analysis
- 3.5.5 Western Analysis
- 3.5.6 Components of Cell-Based Assays

## **CHAPTER 4 MARKET DYNAMICS**

- 4.1 Factors Affecting the Market
  - 4.1.1 Market Drivers
  - 4.1.2 Challenges for the Market for Cell and Tissue Analysis
  - 4.1.3 Impact of the COVID-19 Pandemic

## **CHAPTER 5 EMERGING TECHNOLOGIES**

## **CHAPTER 6 MARKET BREAKDOWN BY TECHNOLOGY**

- 6.1 Cell and Tissue Analysis Technologies
  - 6.1.1 Biospecimen Technology
  - 6.1.2 Cell Separation Technology
  - 6.1.3 Cell and Tissue Characterization

## **CHAPTER 7 MARKET BREAKDOWN BY END USER**

- 7.1 End Users
  - 7.1.1 Biopharmaceutical Companies
  - 7.1.2 Academic and Research Institutes
  - 7.1.3 Healthcare and Clinical

## **CHAPTER 8 MARKET BREAKDOWN BY REGION**

- 8.1 North America
- 8.2 Europe
- 8.3 Emerging Markets

## **CHAPTER 9 REGULATORY ASPECTS**

- 9.1 New Approvals of Cell and Tissue Analysis Products
- 9.2 Recalls and Safety Alerts

## **CHAPTER 10 PATENT ANALYSIS**

### 10.1 Patent Activity on Cell and Tissue Analysis

#### 10.1.1 Patent Review by Year

#### 10.1.2 Patent Review by Country

#### 10.1.3 Patent Review by Company, University and Institute

## **CHAPTER 11 COMPETITIVE LANDSCAPE**

### 11.1 Mergers and Acquisitions

### 11.2 Competitive Analysis

#### 11.2.1 Biospecimen Technology

#### 11.2.2 Cell Separation Technology

#### 11.2.3 Cell and Tissue Characterization Technology

## **CHAPTER 12 COMPANY PROFILES**

ABCAM PLC

ABNOVA CORP.

AGILENT TECHNOLOGIES INC.

ARRAYIT CORP.

BECTON, DICKINSON & CO.

BIO-RAD LABORATORIES INC.

BIO-TECHNE CORP.

CARL ZEISS

CELL SIGNALING TECHNOLOGY INC.

DANAHER CORP.

FUJIFILM CELLULAR DYNAMICS INC. (FCDI)

GE HEALTHCARE

F. HOFFMANN-LA ROCHE AG

ILLUMINA INC.

LUMINEX CORP.

MERCK KGAA

MILTENYI BIOTEC

PERKINELMER INC.

SARTORIUS AG

STEMCELL TECHNOLOGIES

SYSMEX CORP.

THERMO FISHER SCIENTIFIC INC.

WORTHINGTON BIOCHEMICAL CORP.

## List Of Tables

### LIST OF TABLES

Summary Table B: Global Market for Cell and Tissue Analysis, by Region, Through 2027

Summary Table A: Global Market for Cell and Tissue Analysis, Through 2027

Table 1: History of Cell and Tissue Analysis

Table 2: Plant and Animal Cell Differences

Table 3: Prokaryotic and Eukaryotic Cell Differences

Table 4: Cell and Tissue Analysis Techniques

Table 5: Total Number of New Cases and Deaths Due to Various Cancers, Globally, 2020

Table 6: NIH Funding Estimated for Various Research, Condition and Disease Categories, 2017-2023

Table 7: Global Market for Cell and Tissue Analysis, Through 2027

Table 8: Global Market for Cell and Tissue Analysis, by Technology, Through 2027

Table 9: Global Market for Biospecimen Technology, by Type, Through 2027

Table 10: Global Market for Biospecimen Technology, by Region, Through 2027

Table 11: Global Market for Biospecimen Technology, by End User, Through 2027

Table 12: Global Market for Cell Separation Technology, by Type, Through 2027

Table 13: Global Market for Cell Separation Technology, by Region, Through 2027

Table 14: Global Market for Cell Separation Technology, by End User, Through 2027

Table 15: Global Market for Cell and Tissue Characterization Technology, by Type, Through 2027

Table 16: Global Market for Cell and Tissue Characterization Technology, by Region, Through 2027

Table 17: Global Market for Cell and Tissue Characterization Technology, by End User, Through 2027

Table 18: Global Market for Cell and Tissue Analysis, by End User, Through 2027

Table 19: Global Market for Biopharmaceutical Company End Users of Biospecimen Technology, by Region, Through 2027

Table 20: Global Market for Biopharmaceutical Company End Users of Cell Separation Technology, by Region, Through 2027

Table 21: Global Market for Biopharmaceutical Company End Users of Cell and Tissue Characterization Technology, by Region, Through 2027

Table 22: Cancer Research Grants, by Cancer Type, January 2023

Table 23: Global Market for Research Institute and Academic End Users of Biospecimen Technology, by Region, Through 2027

- Table 24: Global Market for Research Institute and Academic End Users of Cell Separation Technology, by Region, Through 2027
- Table 25: Global Market for Research Institute and Academic End Users of Cell and Tissue Characterization Technology, by Region, Through 2027
- Table 26: Global Market for Healthcare and Clinical Laboratory End Users of Biospecimen Technology, by Region, Through 2027
- Table 27: Global Market for Healthcare and Clinical Laboratory End Users of Cell Separation Technology, by Region, Through 2027
- Table 28: Global Market for Healthcare and Clinical Laboratory End Users of Cell and Tissue Characterization Technology, by Region, Through 2027
- Table 29: Global Market for Cell and Tissue Analysis, by Region, Through 2027
- Table 30: New Approvals of Cell and Tissue Analysis Products, 2020-February 2023
- Table 31: Recalls and Safety Alerts, 2019-2021
- Table 32: Patents Issued for Cell and Tissue Analysis, by Year, 2020-2022
- Table 33: Patents Issued on Cell and Tissue Analysis, by Country, 2020-2022
- Table 34: Patents Issued on Cell and Tissue Analysis, by Organization, 2020-2022
- Table 35: Mergers, Acquisitions and Collaborations, 2019-2022
- Table 36: Key Companies in Biospecimen Technology
- Table 37: Biospecimen Technology Market Leaders, 2021
- Table 38: Key Companies in DNA Microarray Technology
- Table 39: Key Companies in Protein Microarray Technology
- Table 40: Key Players in Cell Separation Technology
- Table 41: Competitive Analysis: Cell Separation Technology Market Leaders, 2021
- Table 42: Key Companies in Magnetic Separation Technology
- Table 43: Key Companies in Flow Cytometry Technology
- Table 44: Key Companies in Cell and Tissue Characterization Technology
- Table 45: Cell and Tissue Characterization Technology Market Leaders, 2021
- Table 46: Key Companies in Cell-based Assays
- Table 47: Key Companies in High-Content Screening (HCS) Technology
- Table 48: Key Companies in Research Antibodies



## List Of Figures

### LIST OF FIGURES

- Summary Figure A: Global Market for Cell and Tissue Analysis, 2019-2027
- Summary Figure B: Global Market for Cell and Tissue Analysis, by Region, 2019-2027
- Figure 1: Personalized Medicines as a Share of FDA Approvals, 2015-2021
- Figure 2: Global Market for Cell and Tissue Analysis, by Technology, 2019-2027
- Figure 3: Global Market Shares of Cell and Tissue Analysis, by Technology, 2021
- Figure 4: Global Market for Biospecimen Technology, by Type, 2019-2027
- Figure 5: Global Market Shares of Biospecimen Technology, by Type, 2021
- Figure 6: Global Market for Biospecimen Technology, by Region, 2019-2027
- Figure 7: Global Market for Biospecimen Technology, by End User, 2019-2027
- Figure 8: Global Market for Cell Separation Technology, by Type, 2019-2027
- Figure 9: Global Market Shares of Cell Separation Technology, by Type, 2021
- Figure 10: Global Market for Cell Separation Technology, by Region, 2019-2027
- Figure 11: Global Market for Cell Separation Technology, by End User, 2019-2027
- Figure 12: Global Market for Cell and Tissue Characterization Technology, by Type, 2019-2027
- Figure 13: Global Market Shares of Cell and Tissue Characterization Technology, by Type, 2021
- Figure 14: Global Market for Cell and Tissue Characterization Technology, by Region, 2019-2027
- Figure 15: Global Market for Cell and Tissue Characterization Technology, by End User, 2019-2027
- Figure 16: Global Market for Cell and Tissue Analysis, by End User, 2019-2027
- Figure 17: Global Market Shares of Cell and Tissue Analysis, by End User, 2021
- Figure 18: Global Biopharmaceuticals R&D Spending, 2010-2024
- Figure 19: Global Market for Biopharmaceutical Company End Users of Biospecimen Technology, by Region, 2019-2027
- Figure 20: Global Market for Biopharmaceutical Company End Users of Cell Separation Technology, by Region, 2019-2027
- Figure 21: Global Market for Biopharmaceutical Company End Users of Cell and Tissue Characterization Technology, by Region, 2019-2027
- Figure 22: Global Market for Market for Research Institute and Academic End Users of Biospecimen Technology, by Region, 2019-2027
- Figure 23: Global Market for Research Institute and Academic End Users of Cell Separation Technology, by Region, 2019-2027
- Figure 24: Global Market for Research Institute and Academic End Users of Cell and

Tissue Characterization Technology, by Region, 2019-2027

Figure 25: Global Market for Healthcare and Clinical Laboratory End Users of Biospecimen Technology, by Region, 2019-2027

Figure 26: Global Market for Healthcare and Clinical Laboratory End Users of Cell Separation Technology, by Region, 2019-2027

Figure 27: Global Market for Healthcare and Clinical Laboratory End Users of Cell and Tissue Characterization Technology, by Region, 2019-2027

Figure 28: Global Market for Cell and Tissue Analysis, by Region, 2019-2027

Figure 29: Global Market Shares of Cell and Tissue Analysis, by Region, 2021

Figure 30: Share of Patents Issued on Cell and Tissue Analysis, by Year, 2020-2022

Figure 31: Global Key Manufacturer/Supplier Market Shares of Cell and Tissue Analysis, 2021

Figure 32: Agilent Technologies: Annual Revenue, 2019-2021

Figure 33: Agilent Technologies' Life Sciences and Applied Markets Segment: Annual Revenue, 2019-2021

Figure 34: Agilent Technologies' Life Sciences and Applied Markets Segment: Revenue Share, by Region, 2021

Figure 35: Becton, Dickinson: Annual Revenue, 2019-2021

Figure 36: Becton, Dickinson's Biosciences Segment: Annual Revenue, 2019-2021

Figure 37: Becton, Dickinson: Revenue Share, by Region, 2021

Figure 38: Bio-Rad Laboratories Inc.: Annual Revenue, 2019-2021

Figure 39: Bio-Rad Laboratories Inc.: Market Share, by Business Segment, 2021

Figure 40: Bio-Rad Laboratories Inc.: Revenue Share, by Geography, 2021

Figure 41: Bio-Techne Corp.: Annual Revenue, 2019-2021

Figure 42: Bio-Techne Corp.: Market Share, by Business Segment, 2021

Figure 43: Bio-Techne Corp.: Revenue Share, by Region, 2021

Figure 44: Danaher Corp.: Annual Revenue, 2019-2021

Figure 45: Danaher Corp.: Market Share, by Region, 2021

Figure 46: Danaher Corp.: Market Share, by Business Segment, 2021

Figure 47: General Electric Healthcare: Annual Revenue, 2019-2021

Figure 48: General Electric Healthcare: Revenue Share, by Region, 2021

Figure 49: General Electric Healthcare: Revenue Share, by Business Segment, 2021

Figure 50: Roche Diagnostics Corp.: Annual Revenue, 2019-2021

Figure 51: Roche Diagnostics Corp.: Market Share, by Region, 2021

Figure 52: Roche Diagnostics Corp.: Market Share, by Business Segment, 2021

Figure 53: Illumina Inc.: Annual Revenue, 2019-2021

Figure 54: Illumina Inc.: Market Share, by Region, 2021

Figure 55: Illumina Inc.: Market Share, by Business Segment, 2021

Figure 56: Merck KGaA: Annual Revenue, 2019-2021

Figure 57: Merck KGaA: Revenue Share, by Region, 2021

Figure 58: Merck KGaA: Revenue Share, by Business Segment, 2021

Figure 59: PerkinElmer: Annual Revenue, 2019-2021

Figure 60: PerkinElmer: Revenue Share, by Region, 2021

Figure 61: PerkinElmer: Revenue Share, by Business Unit, 2021

Figure 62: Sartorius: Annual Revenue, 2019-2021

Figure 63: Sartorius: Market Share, by Region, 2021

Figure 64: Sartorius: Market Share, by Business Segment, 2021

Figure 65: Thermo Fisher Scientific Inc.: Annual Revenue, 2019-2021

Figure 66: Thermo Fisher Scientific Inc.: Market Share, by Region, 2021

Figure 67: Thermo Fisher Scientific Inc.: Market Share, by Business Segment, 2021

## I would like to order

Product name: Global Markets and Technologies for Cell and Tissue Analysis

Product link: <https://marketpublishers.com/r/G79A388DCF1EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G79A388DCF1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970