



Cell Separation Technologies Market (Technology: Gradient Centrifugation, MACS and FACS; Application: Stem Cell Research, Immunology, Neuroscience and Cancer Research) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2013 - 2019

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Report Description

This report consists of the market analysis for the various technologies used in the cell separation market. Increasing cell therapy oriented research and development globally is driving the cell separation technologies market towards significant growth. The stakeholders for this report include providers and manufacturers of cell separation technology based instruments.

Cell separation technologies refer to isolation of target cells from a mixture of various cells. The cell separation technologies market is segmented on the basis of technologies that are available in the market and application areas of cell separation technologies. The various technology segments covered in this report are gradient centrifugation and separation based on surface markers. Separation based on surface markers technology include two different techniques namely, magnetic activated cell sorting (MACS) and fluorescence activated cell sorting (FACS). Except magnetic activated cell sorting, technologies such as fluorescence activated cell sorting and gradient centrifugation techniques, sieving, panning chromatography and lab-on-a-chip are currently under development. The application areas of cell separation technologies comprise stem cell research, immunology, neuroscience research and cancer research. Increasing prevalence of neurodegenerative diseases and chronic diseases worldwide is driving the demand for cell therapy to treat the root cause of these diseases.

Thus, research activities to develop cell therapies to treat diseases such as cancer, Alzheimer's disease, human immunodeficiency virus (HIV), autoimmune diseases are increasing gradually. Cell separation technologies are

widely used in stem cell research and therapeutics, cancer research, immunology and neuroscience. Considering the vast advancement in cell therapy research, several companies operating in the cell separation technology market are shifting focus from research laboratories to clinical research and translational laboratories to pitch their products such as reagents, instruments and other tools used in the cell separation process. Revenue forecast and market analysis for each segment has been given in this study for the period 2011 to 2019 in terms of USD million in addition to the compound annual growth rate (CAGR %) for each segment of technology and application. The CAGR is provided for forecast period of 2013 to 2019; 2012 have been considered as base in year for market size estimation.

Geographically, global cell separation technologies market has been segmented into four areas namely, North America, Europe, Asia-Pacific and Rest of the World (RoW). This report also provides the present and future market estimation in terms of USD million for the period 2011 to 2019, in addition to compound annual growth rate (CAGR %) for each geographic area. Further to market size estimation, this report provides recommendations and highlights of the market that should be useful for current and new market players to grow and sustain in the global cell separation technologies market.

Market trends and dynamics such as growth drivers, restraints and opportunities that have impact on present and future position of this market are demonstrated in the market overview chapter of this study. In addition, the market overview chapter also consists of Porter's five forces analysis and market attractiveness by geography to give detailed analysis of the entire competitive status of the global cell separation technologies market. Further, competitive landscape in the form of heat map analysis that demonstrates the presence of key market players across different segments of the global cell separation technologies market have been included in the market overview chapter of this study.

Key information about the top market players operating in the global cell separation technologies market is given

in the company profiles section of this report. Some of the prominent players profiled in this report include BD Bioscience, EMD Millipore, Mitenyi Biotec GmbH, and STEMCELL Technologies, Terumo BCT, pluriSelect GmbH, and Life Technologies (Thermo Fisher Scientific, Inc.).

The global cell separation technologies market is segmented as follows:

Cell Separation Technologies Market, by Technology

- Gradient centrifugation
- Separation based on surface markers
- Magnetic activated cell sorting (MACS)
- Fluorescence activated cell sorting (FACS)

Cell Separation Technologies Market, by Application

- Stem cell research
- Immunology
- Neuroscience research
- Cancer research

Cell Separation Technologies Market, by Geography

- North America
- Europe
- Asia-Pacific
- Rest of the World (RoW)

Table Of Content

Notes:

Chapter 1 Introduction

1.1 Report Description

1.2 Market Segmentation

1.3 Research Methodology

Chapter 2 Executive Summary

2.1 Market Snapshot: Global Cell Separation Technologies Market

2.2 Comparative Analysis: Global Cell Separation Technologies Market, by Geography, 2012 & 2019 (Value %)

Chapter 3 Global Cell Separation Technologies Market Overview

3.1 Overview – Current Market Scenario and Future Market Trends

3.1.1 Global Cell Separation Technologies Market Revenue, by Technology, 2011 – 2019 (USD Million)

3.2 Market Drivers

3.2.1 Growing incidences of chronic diseases worldwide escalating demand for cell therapy

3.2.2 Growth in government initiatives to improve domestic biotechnology industry

3.3 Restraints

3.3.1 Patent rights over MACS technique

3.4 Opportunities

3.4.1 Technological developments and growth in scope of cell separation technologies

3.4.2 Need for solutions with higher purity yield, lesser turnaround time and simplicity at cheaper rates.

3.5 Porter's Five Force Analysis for the Global Cell Separation Technologies Market

3.5.1 Bargaining Power of Suppliers

3.5.2 Bargaining Power of Buyers

3.5.3 Threat of New Entrants

3.5.4 Threat of Substitutes

3.5.5 Competitive Rivalry

3.6 Market Attractiveness Analysis: Global Cell Separation Technologies Market, by Geography, 2012

3.7 Competitive Landscape

3.7.1 Heat Map Analysis: Global Cell Separation Technologies Market, by Key Players

Chapter 4 Global Cell Separation Technologies Market, by Technology

4.1 Overview – Current Market Scenario and Future Market Trends

4.1.1 Global Cell Separation Technologies Market, by Technology 2011 – 2019 (USD Million)

4.1.2 Comparative Analysis: Global Cell Separation Technologies Market, By Technology, 2011 & 2018 (Value %)

4.2 Gradient Centrifugation

4.2.1 Global Gradient Centrifugation Market Revenue, 2011 – 2019, (USD Million)

4.3 Separation Based on Surface Markers

4.3.1 Global Separation Based on Surface Markers Market Revenue, by Type, 2011 – 2019 (USD Million)

4.3.2 Magnetic Activated CellSorting (MACS)

4.3.3 Global Magnetic Activated Cell Sorting (MACS) Market Revenue, 2011- 2019, (USD Million)

4.3.4 Fluorescence Activated Cell Sorting (FACS)

4.3.5 Global Fluorescence Activated Cell Sorting (FACS)Market Revenue, 2011 – 2019, (USD Million)

Chapter 5 Global Cell Separation Technologies Market, by Application

5.1 Overview – Current Market Scenario and Future Market Trends

5.1.1 Global Cell Separation Technologies Market Revenue, by Application, 2011 – 2019 (USD Million)

5.1.2 Comparative Analysis: Global Cell Separation Technologies Market, By Application, 2011 & 2018 (Value %)

5.2 Stem Cell Research

5.2.1 Global Cell Separation Technologies Market Revenue in Stem Cell Research Market, 2011 – 2019, (USD Million)

5.3 Immunology

5.3.1 Global Cell Separation Technologies Market Revenue in Immunology, 2011 – 2019, (USD Million)

5.4 Neuroscience Research

5.4.1 Global Cell Separation Technologies Market Revenue in Neuroscience Research, 2011-2019, (USD Million)

5.5 Cancer Research

5.5.1 Global Cell Separation Technologies Market Revenue in Cancer Research, 2011 – 2019, (USD Million)

Chapter 6 Global Cell Separation Technologies Market, by Geography

6.1 Overview – Current Market Scenario and Future Market Trends

6.1.1 Global Cell Separation Technologies Market Revenue, by Geography, 2011 - 2019 (USD Million)

6.2 North America

6.2.1 North America Cell Separation Technologies Market Revenue, 2011 - 2019 (USD Million)

6.3 Europe

6.3.1 Europe Cell Separation Technologies Market Revenue, 2011 – 2019 (USD Million)

6.4 Asia Pacific

6.4.1 Asia-Pacific Cell Separation Technologies Market Revenue, 2011 – 2019 (USD Million)

6.5 Rest of the World (RoW)

6.5.1 RoW Cell Separation Technologies Market Revenue, 2011 – 2019 (USD Million)

Chapter 7 Recommendations

Chapter 8 Company Profiles

8.1 BD Biosciences

8.1.1 Company Overview

8.1.2 Financial Overview

8.1.3 Product Portfolio

8.1.4 Business Strategies

8.1.5 Recent Developments

8.2 Life Technologies Corporation

8.2.1 Company Overview

8.2.2 Financial Overview

8.2.3 Product Portfolio

8.2.4 Business Strategies

8.2.5 Recent Developments

8.3 Merck Millipore

8.3.1 Company Overview

8.3.2 Financial Overview

8.3.3 Product Portfolio

8.3.4 Business Strategies

8.3.5 Recent Developments

8.4 Miltenyi Biotec GmbH

8.4.1 Company Overview

8.4.2 Financial Overview

8.4.3 Product Portfolio

8.4.4 Business Strategies

8.4.5 Recent Developments

8.5 pluriSelect GmbH

8.5.1 Company Overview

8.5.2 Financial Overview

8.5.3 Product Portfolio

8.5.4 Business Strategies

8.5.5 Recent Developments

8.6 STEMCELL Technologies, Inc.

8.6.1 Company Overview

8.6.2 Financial Overview

8.6.3 Product Portfolio

8.6.4 Business Strategies

8.6.5 Recent Developments

8.7 Terumo BCT, Inc.

8.7.1 Company Overview

8.7.2 Financial Overview

8.7.3 Product Portfolio

8.7.4 Business Strategies

8.7.5 Recent Developments

TABLE 1 Market Snapshot: Global Cell Separation TechnologiesMarket

TABLE 2 Global Cell Separation Technologies Market Revenue, by Technology, 2011 - 2019 (USD Million)

TABLE 3 Global Cell Separation Technologies Market Revenue, by Technology, 2011 – 2019 (USD Million)

TABLE 4 Global Separation Based on Surface Markers Market Revenue, by Type, 2011 – 2019 (USD Million)

TABLE 5 Global Cell Separation Technologies Market Revenue, by Application, 2011 – 2019 (USD Million)

TABLE 6 Global Cell Separation Technologies Market Revenue, by Geography, 2011 – 2019 (USD Million)

FIG. 1 Market Segmentation: Global Cell Separation Technologies Market

FIG. 2 Global Cell Separation Technologies Market Revenue, by Technology, 2012 (USD Million)

FIG. 3 Global Cell Separation Technologies Market Revenue, by Application, 2012 (USD Million)

FIG. 4 Comparative Analysis: Global Cell Separation Technologies Market, by Geography, 2012 & 2019 (Value %)

FIG. 5 Porter's Five Force Analysis: Global Cell Separation Technologies Market

FIG. 6 Market Attractiveness Analysis: Global Cell Separation Technologies Market, by Geography

FIG. 7 Heat Map Analysis: Global Cell Separation Technologies Market, by Key Players

FIG. 8 Comparative Analysis: Global Cell Separation Technologies Market, By Technology, 2012 & 2019 (Value

%)

FIG. 9 Global Gradient Centrifugation Market Revenue, 2011 - 2019(USD Million)

FIG. 10 Global Magnetic Activated Cell Sorting (MACS) Market Revenue, 2011 – 2019 (USD Million)

FIG. 11 Global Fluorescence Activated Cell Sorting (FACS) Market Revenue, 2011 – 2019 (USD Million)

FIG. 12 Comparative Analysis: Global Cell Separation Technologies Market, By Application, 2012 & 2019 (Value %)

FIG. 13 Global Cell Separation Technologies Market Revenue in Stem Cell Research Market, 2011 - 2019(USD Million)

FIG. 14 Global Cell Separation Technologies Market Revenue in Immunology, 2011 – 2019 (USD Million)

FIG. 15 Global Cell Separation Technologies Market Revenue in Neuroscience Research, 2011 – 2019 (USD Million)

FIG. 16 Global Cell Separation Technologies Market Revenue in Cancer Research, 2011 – 2019 (USD Million)

FIG. 17 North America Cell Separation Technologies Market Revenue, 2011 - 2019 (USD Million)

FIG. 18 Europe Cell Separation Technologies Market Revenue, 2011 - 2019 (USD Million)

FIG. 19 Asia-Pacific Cell Separation Technologies Market Revenue, 2011 – 2019 (USD Million)

FIG. 20 RoW Cell Separation Technologies Market Revenue, 2011 - 2019 (USD Million)

FIG. 21 BD Biosciences: Annual Revenue, 2010 – 2012 (USD Million)

FIG. 22 Life Technologies Corporation: Annual Revenue, 2010 – 2012 (USD Million)

FIG. 23 Merck Millipore: Annual Revenue, 2010 – 2012 (USD Million)

FIG. 24 Terumo Corporation: Annual Revenue, 2010 – 2012 (USD Million)

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