



## 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)

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