

Cell Expansion World Market Segmentation and Major Players Analysis and Forecast to 2022

Cell Expansion Market to Reach \$23,997 million Forecast to 2022

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Cell expansion technology has been emerging as a promising therapeutic solution for many diseases and is used for engineering, replacing, or regenerating human tissues, cells, and organs to restore normal function. Products of cell expansion market are segmented into instruments and consumables. The instruments are segmented into cell expansion supporting instruments, bioreactors and automatic cell expansion systems. Cell expansion supporting equipments include flow cytometer, centrifuge, cell counters and others. Bioreactors are segmented into stirred type bioreactors, microcarrier-based anchorage-dependent stirred type bioreactors, suspension-based anchorage independent stirred type bioreactors, hollow fibre/perfusion bioreactors, bubble column and airlift bioreactor, single/disposable use bioreactor and others. Consumables are segmented into reagents, media, sera and disposables. Disposables are further sub-segmented into culture vessels, bioreactor accessories and others.

By cell types, the cell expansion markets are divided into animal cells, human cells, bacterial cells and others. The human cell includes adult stem cells, induced pluripotent stem cells and embryonic stem cells. Adult stem cells are segmented into mesenchymal stem cells, hematopoietic stem cells and neural stem cells. Others include yeast cells and insect cells.

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By application, the cell expansion markets are divided into regenerative medicine and stem cell research, cancer studies and others. The end users of the cell expansion market are segmented into academics and research institutes, biotechnology and biopharmaceutical companies, hospital, biobanks and others.

Among the cell expansion products, the consumables dominated the market by occupying a



largest share and instruments market is estimated to be the fastest growing segment from 2015 to 2022. In cell types, human cell types is the largest segment as well as the fastest growing segment. In applications, the regenerative medicine and stem cell research is the largest segment and is the fastest growing segment with a highest CAGR of 18.1% from 2015-2022. By end- users, hospitals and bio banks are the largest segment with a share of 37.0% and also, the fastest segment from 2015 to 2022.

Geographically, North America is the largest market followed by Europe and Asia. The APAC region is the fastest growing region with a CAGR of 20.8% from 2015 to 2022 suggesting an array of opportunities for growth and likely to be getting into the eyes of new investors in the cell expansion market. Growth in the Asian market is attributed to rising prevalence of chronic diseases and increased government initiatives for stem cell research.

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The cell expansion market is expected to grow at a double digit CAGR to reach \$23,997 million by 2022. Rising prevalence of chronic diseases, increasing government funding for research, increased investments in cell based products, growing number of GMP-certified production facilities and 3D cell expansion technology are some of the drivers in the cell expansion global market. High cost of cell-based research, use of unregulated products, quality issues for end users, ethical concerns regarding research on cell biology and stringent regulation are some of the factors hampering the market.

The cell expansion global market is a highly competitive market and all the existing players in this market are involved in developing new and advanced products to maintain their market shares.

Some of the key players of the cell expansion market are Becton Dickinson and Company (U.S.), Corning, Inc. (U.S.), Danaher Corporation (U.S.), Eppendorf AG (Germany), GE Healthcare (U.K), Lonza Group Ltd. (Switzerland), Merck KGAA (Germany.), Miltenyi Biotec (Germany), STEMCELL Technologies (Canada), Terumo Corporation (Japan) and ThermoFisher Scientific Inc. (U.S.).

The report provides an in depth market analysis of the above mentioned segments across the following regions:

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

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Major Points Contained in Table of content

1 EXECUTIVE SUMMARY	20
2 INTRODUCTION	28
2.1 KEY TAKE AWAYS	28
2.2 REPORT DESCRIPTION	28
2.3 MARKETS COVERED	30
2.4 STAKEHOLDERS	32
2.5 RESEARCH METHODOLOGY	32
2.5.1 MARKET SIZE ESTIMATION	34
2.5.2 MARKET CRACKDOWN AND DATA TRIANGULATION	36
2.5.3 SECONDARY SOURCES	37
2.5.4 PRIMARY SOURCES	38
2.5.5 KEY DATA POINTS FROM SECONDARY SOURCES	38
2.5.6 KEY DATA POINTS FROM PRIMARY SOURCES	39
2.5.7 ASSUMPTIONS	39
3 MARKET ANALYSIS	41

3.1 INTRODUCTION	41
3.2 MARKET SEGMENTATION	42
3.3 FACTORS INFLUENCING MARKET	44
3.3.1 DRIVERS AND OPPORTUNITIES	44
3.3.1.1 Rising Prevalence of Chronic Diseases	44
3.3.1.2 Increasing Government Funding for Research	45
3.3.1.3 Increased Investments in Cell Based Research	47
3.3.1.4 Growing Number of GMP-Certified Production Facilities.	48
3.3.1.5 3D Cell Expansion Technology	49
3.3.1.6 Countries in Asia-Pacific Region to Present High-Growth Opportunities	51
3.3.2 RESTRAINTS AND THREATS	52
3.3.2.1 High Cost of Cell-Based Products	52
3.3.2.2 Use of Unregulated Products	52
3.3.2.3 Quality Issues for End Users	53
3.3.2.4 Ethical Concerns Regarding Research on Cell Biology	54
3.3.2.5 Stringent Regulation	55
3.4 PORTER'S FIVE FORCE ANALYSIS	55
3.4.1 THREAT OF NEW ENTRANTS	55
3.4.2 THREAT OF SUBSTITUTES	56
3.4.3 BARGAINING POWER OF SUPPLIERS	58
3.4.4 BARGAINING POWER OF BUYERS	59
3.4.5 COMPETITIVE RIVALRY	59
3.5 REGULATORY GUIDELINES	60
3.5.1 U.S.	60
3.5.2 EUROPE	61
3.5.3 INDIA	62
3.5.4 CHINA	63
3.5.5 JAPAN	64
3.6 UPCOMING TECHNOLOGIES	65
3.7 SUPPLY CHAIN ANALYSIS	68
3.8 MARKET SHARE ANALYSIS BY MAJOR PLAYERS	71
3.8.1 CELL EXPANSION GLOBAL MARKET SHARE ANALYSIS, BY KEY PLAYERS, 2015	71
3.8.2 SINGLE-USE BIOREACTOR MARKET REVENUE, BY MAJOR PLAYERS, 2015	74
3.9 PATENT TRENDS	76
4 CELL EXPANSION GLOBAL MARKET, BY PRODUCTS	79
4.1 INTRODUCTION	79
4.2 INSTRUMENTS	81
4.2.1 CELL EXPANSION SUPPORTING EQUIPMENTS	84
4.2.1.1 Flow Cytometers	87
4.2.1.2 Centrifuge	90
4.2.1.3 Cell Counters	92
4.2.1.4 Other Cell Expansion Supporting Equipments	94

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