

# Cell Expansion Global Market - Forecast to 2022

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## Abstracts

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.

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.

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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