

Global Cell Expansion Market Report and Forecast 2024-2032

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Report description:

Global Cell Expansion Market Report and Forecast 2024-2032

Global Cell Expansion Market Overview

The global cell expansion market was valued at USD 21 billion in 2023 and is expected to reach USD 81 billion by 2032, growing at a compound annual growth rate (CAGR) of 16.20% during the forecast period.

Cell expansion is the process of growing cells in vitro for various applications such as research, drug discovery, cell therapy, tissue engineering and bioproduction. Cell expansion involves the use of cell culture media, reagents, instruments and consumables to maintain optimal conditions for cell growth and differentiation.

The global cell expansion market is set to continue its growth trajectory from 2017 to 2032, driven by the rising demand for cell-based therapies, technological advancements, and increased investment in research and development. Despite facing challenges such as high costs and regulatory hurdles, the market is poised for significant expansion, offering substantial opportunities for companies engaged in the development and provision of cell expansion products and technologies.

Global Cell Expansion Market Drivers and Constraints

The major factors driving the growth of the cell expansion market are the increasing prevalence of chronic diseases, such as cancer, diabetes, cardiovascular diseases and autoimmune disorders, that require cell-based therapies and personalized medicine. The rising demand for stem cell research and regenerative medicine, the growing adoption of biopharmaceuticals and biosimilars, and the technological advancements in cell culture equipment and techniques are also contributing to the market growth. Moreover, the emergence of novel applications of cell expansion, such as organoids, organ-on-a-chip and 3D bioprinting, are creating new opportunities for the market players.

However, the cell expansion market faces some challenges, such as the high cost and complexity of cell culture procedures, the ethical and regulatory issues related to the use of animal and human cells, the risk of contamination and infection, and the lack of skilled professionals and standardization in the field. These factors may hamper the market growth and limit its potential.

Global Cell Expansion Market Trends and Developments

The cell expansion market is witnessing some key trends and developments, such as the increasing adoption of automation and artificial intelligence (AI) in cell culture processes, the development of novel cell culture media and reagents, the integration of microfluidics and nanotechnology in cell expansion devices, and the expansion of cell banking and biobanking services. These

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trends and developments are expected to enhance the efficiency, quality, scalability and reproducibility of cell expansion and offer new possibilities for the market players.

- Rising Prevalence of Chronic Diseases: The increasing incidence of chronic diseases such as cancer, diabetes, and cardiovascular disorders is driving the demand for cell-based therapies, which in turn fuels the growth of the cell expansion market.
- Advancements in Cell-Based Therapies: Breakthroughs in stem cell therapy, immunotherapy, and regenerative medicine are propelling the demand for cell expansion products and technologies. The development of induced pluripotent stem cells (iPSCs) and advancements in gene editing techniques like CRISPR are also contributing to market growth.
- Growing Investment in Research and Development: There is a significant increase in funding and investment in life sciences research, particularly in cell-based research, which is driving the demand for cell expansion products.
- Technological Innovations: The introduction of automated and high-throughput cell expansion systems, bioreactors, and advanced culture media is enhancing the efficiency and scalability of cell expansion processes, thereby supporting market growth.
- Expansion of Biopharmaceutical Industry: The growing biopharmaceutical industry, particularly the production of biologics and biosimilars, requires large-scale cell culture and expansion, further boosting the market.
- Regulatory Support: Favorable government regulations and support for cell-based research and therapies are encouraging investments in this field, thereby promoting market expansion.

Global Cell Expansion Market Segmentation

The cell expansion market can be segmented by product, cell type, application, end user and region.

Market Breakup by Product

- Consumables
 - o□Media
 - o□Reagent
 - o□SERA
 - o□Disposables
- Instruments
 - o□Cell Expansion Supporting Equipment
 - o□Bioreactors
 - o□Automated Cell Expansion Systems

Market Breakup by Cell Type

- Human Cell
- Animal Cell

Market Breakup by Application

- Regenerative Medicine and Stem Cell Research
- Cancer Research
- Drug Screening and Development
- Tissue Engineering
- Other Applications

Market Breakup by End User

- Biotechnology and Biopharmaceutical Companies
- Research Institutes
- Cell Banks
- Other End User

Market Breakup by Region

- North America

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- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Cell Expansion Market Competitive Landscape

The cell expansion market is highly competitive and fragmented, with the presence of several global and regional players. The key players in the market Thermo Fisher Scientific, Inc., GE Healthcare, Corning Incorporated, Miltenyi Biotec, Merck KGaA, Becton, Dickinson and Company, TERUMO BCT, INC., Takara Bio Inc., Getinge AB, Eppendorf AG and Promocell GmbH. These players are adopting various strategies, such as product launches and enhancements, mergers and acquisitions, partnerships and collaborations, and expansions and investments, to gain a competitive edge and increase their market share.

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*Additional insights provided are customisable as per client requirements.

* The coverage of the Market Landscape section depends on the data availability and may cover a minimum of 80% of the total market. The EMR team strives to make this section as comprehensive as possible.

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