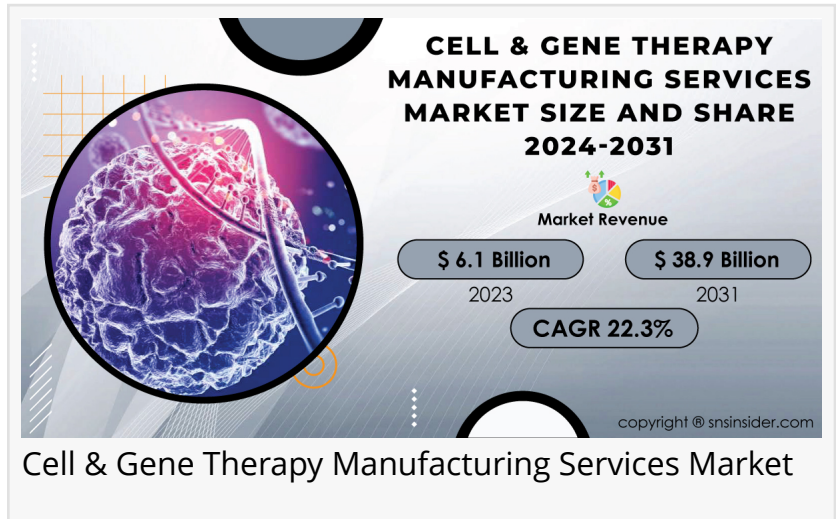


Cell & Gene Therapy Manufacturing Services Market to Reach USD 38.9 Billion by 2031, Growing at a CAGR of 22.3%

Cell & Gene Therapy Manufacturing Services Market Shows Exponential Growth due to Demand for Personalized Medicine and Regulatory Support

AUSTIN, TEXAS, UNITED STATES, March 21, 2024 /EINPresswire.com/ -- According to SNS Insider, the [Global Cell & Gene Therapy Manufacturing Services Market](#) was valued at \$6.1 billion in 2023 and is projected to reach \$38.9 billion by 2031, growing at a CAGR of 22.3% during the forecast period.



Market Report Scope & Overview

The field of cell & gene therapy manufacturing services market has emerged as a revolutionary frontier in the realm of biotechnology, promising groundbreaking treatments and cures for a myriad of diseases. This burgeoning sector encompasses a diverse range of activities aimed at the production, processing, and delivery of cellular and genetic therapies, with a primary focus on personalized medicine and precision healthcare. At its core, cell and gene therapy manufacturing services involve the manipulation and modification of living cells or genetic material to correct or replace faulty genes, stimulate immune responses, or regenerate damaged tissues.

The scope of the cell & gene therapy manufacturing services market spans the entire spectrum of therapeutic development, from initial research and development (R&D) through clinical trials to commercial-scale production and distribution. Key players in this dynamic ecosystem include biopharmaceutical companies, contract development and manufacturing organizations (CDMOs), academic institutions, regulatory agencies, and healthcare providers. With advancements in biotechnology, such as CRISPR-Cas9 gene editing, viral vector technologies, and induced pluripotent stem cells (iPSCs), the industry is witnessing rapid innovation and expansion.

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Major Key Players in the Market:

- Merck KGaA
- Thermo Fisher Scientific
- Catalent Inc.
- Lonza
- Takara Bio Inc.
- Wuxi Advanced Therapies
- F. Hoffmann-La Roche Ltd
- Samsung Biologics
- Bluebird Bio Inc.
- Novartis AG
- Boehringer Ingelheim
- Hitachi Chemical Co. Ltd.
- Miltenyi Biotec
- Cellular Therapeutics

Rapid Growth in Cell & Gene Therapy Manufacturing Services Market Fueled by Biotech Advancements and Rising Disease Prevalence

The cell & gene therapy manufacturing services market is experiencing robust growth, driven by several key factors. Firstly, advancements in biotechnology and molecular biology have paved the way for groundbreaking discoveries in cell and gene therapies, leading to a surge in demand for manufacturing services to meet the growing needs of biopharmaceutical companies. Additionally, the increasing prevalence of chronic diseases such as cancer, genetic disorders, and autoimmune diseases has propelled the development and adoption of cell and gene therapies as promising treatment options, thereby fueling the demand for manufacturing services. Moreover, favorable regulatory frameworks and government initiatives aimed at accelerating the development and commercialization of cell and gene therapies have further boosted market growth by providing incentives and streamlining the approval process.

Despite the promising growth prospects, the market faces several restraints that could hinder its expansion. One of the primary challenges is the complexity and high cost associated with manufacturing these therapies, which often involve intricate processes and specialized technologies. Furthermore, concerns regarding the long-term safety and efficacy of these therapies, as well as the potential for adverse events, pose regulatory and public perception challenges that could impede market growth. Despite these obstacles, the cell & gene therapy manufacturing services market presents significant opportunities for growth, driven by technological advancements, increasing investment in R&D, and the continuous expansion of the

biopharmaceutical industry.

Key Segments Covered in Report:

By Type

□ Cell Therapy

□ Allogeneic

- Mesenchymal Stem Cells
- T-cells
- Induced Pluripotent Stem Cells
- Natural Killer Cells
- Hematopoietic Stem Cells
- Other Allogeneic Cells

□ Autologous

- T-cells
- Hematopoietic Stem Cells
- Mesenchymal Stem Cells
- Natural Killer Cells
- Other Autologous Cells

□ Viral Vector

- Retroviral Vectors
- Adeno-associated Virus Vectors
- Other Viral Vectors

□ Gene Therapy

□ Viral Vector

- Retroviral Vectors
- Adeno-associated Virus Vectors
- Other Viral Vectors

□ Non-viral Vector

- Oligonucleotides
- Other Non-viral Vectors

By Indication

- Oncology Diseases
- Cardiovascular Diseases
- Orthopedic Diseases
- Ophthalmology Diseases
- Central Nervous System Disorders
- Infectious Diseases

- Other Indications

By Application

- Clinical Manufacturing
- Commercial Manufacturing

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Impact of Recession

The ongoing recession has had a multifaceted impact on the cell & gene therapy manufacturing services market, presenting both challenges and opportunities. On the negative side, economic downturns often lead to reduced investment in research and development, which could slow down innovation and the development of new therapies. Additionally, companies may face financial constraints, affecting their ability to invest in expensive manufacturing infrastructure and technology. However, there are also positive aspects to consider. Recessionary periods often drive healthcare systems to seek more cost-effective solutions, which could increase demand for cell and gene therapies known for their potential to provide long-term benefits and reduce overall healthcare costs.

Impact of Russia-Ukraine War

The Russia-Ukraine war has introduced significant uncertainties and disruptions, impacting various sectors, including the cell & gene therapy manufacturing services market. While the conflict has the potential to disrupt global supply chains and create geopolitical tensions that could hamper international collaborations, there are also potential positive outcomes. Heightened awareness of vulnerabilities in the global supply chain may drive countries and companies to invest in domestic manufacturing capabilities, potentially boosting the development and production of cell and gene therapies within affected regions. Moreover, increased geopolitical instability may spur greater investment in healthcare innovation and resilience, leading to long-term growth opportunities in the cell and gene therapy manufacturing sector as governments seek to bolster their healthcare infrastructure.

Regional Analysis

In regional analysis of the cell & gene therapy manufacturing services market, various factors come into play, shaping the landscape differently across different geographies. North America remains a dominant player in the market, driven by a strong presence of biotechnology and pharmaceutical companies, favorable regulatory environment, and robust investment in research and development. Europe follows closely, with significant investments in advanced therapies and supportive regulatory frameworks. Meanwhile, the Asia-Pacific region is witnessing rapid growth, fueled by increasing healthcare expenditure, a large patient pool, and emerging markets such as China and India investing heavily in biotechnology and healthcare.

infrastructure.

Conclusion

In its report on the cell & gene therapy manufacturing services market, SNS Insider covers a wide array of topics crucial for understanding the industry landscape. The report delves into market trends, including technological advancements, regulatory updates, and key players' strategies. It provides insights into market dynamics, such as drivers, restraints, challenges, and opportunities, offering readers a comprehensive understanding of the factors shaping the market's growth trajectory.

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