

Cell Expansion Market by Product (Consumables (Media, Sera, Reagents, Vessels), Equipment (Cell Expansion Systems, Bioreactors, Incubators)), Cell Type (Human, Animal (CHO, mESCs)), Application (Vaccines, mAbs, CGT), End User - Global Forecast to 2029

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Abstracts

The cell expansion market is projected to reach USD 26.7 billion by 2029 from an estimated USD 14.3 billion in 2024, at a CAGR of 13.3% during the forecast period of 2024 to 2029. The growth of this market can be attributed to increasing prevalence of chronic diseases. The rising rate of chronic diseases such as cancer is propelling the need of cell based therapies such as cell & gene therapy, tissue engineering, and regenerative medicine. The rising demand for innovative cell based therapies and novel therapeutics is propelling the need of cell expansion. This trend is expected to drive the growth of the cell expansion market in the coming years.

“The biopharmaceutical production segment accounted for the largest share of by application segment in 2023.”

In 2023, the biopharmaceutical production segment accounted for the largest share of by application segment in the global cell expansion market. Biopharmaceutical production include monoclonal antibody production, vaccine production, and other therapeutic protein production. The growing investments and fundings for the development of novel drug products and rising demand for biological therapies such as monoclonal antibodies, vaccines, and therapeutic proteins are promoting the growth of biopharmaceutical production in cell expansion market.

“The US has continued to dominate the cell expansion market during the forecast period of 2024-2029.”

The US dominated the cell expansion market in North America in 2023. The US is the world's largest biopharmaceutical market and a leader in biopharmaceutical research/investments. Additionally, the US is home to some of the world's leading academic research institutes, including Harvard University, Stanford University, and the Massachusetts Institute of Technology (MIT). These institutes conduct cutting-edge research in life sciences, including drug discovery and biotechnology, which involve adoption of cell expansion techniques, resulting to propel the market growth. Additionally, increasing fundings in the field of tissue engineering and regenerative medicine are also driving the growth of cell expansion market.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 60% and Demand Side 40%

By Designation: Managers - 55%, CXO & Directors - 20%, and Executives - 25%

By Region: North America - 40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

List of Companies Profiled in the Report:

Thermo Fisher Scientific Inc. (US)

Danaher Corporation (US)

Merck KGaA (Germany)

Sartorius AG (Germany)

Corning Incorporated (US)

Lonza (Switzerland)

Terumo Corporation (Japan)

Eppendorf SE (Germany)

FUJIFILM Corporation (Japan)

Bio-Techne (US)

Repligen Corporation (US)

Gethinge AB (Sweden)

Miltenyi Biotec (Germany)

PerkinElmer Inc. (US)

STEMCELL Technologies (Canada)

PromoCell GmbH (Germany)

HiMedia Laboratories (India)

BD (US)

Takara Bio Inc. (Japan)

Shanghai Duoning Biotechnology Co., Ltd. (Japan)

REPROCELL Inc. (Japan)

PBS Biotech, Inc. (US)

ACROBiosystems (US)

Solida Biotech GmbH (Germany)

Beijing CytoNiche Biotechnology Co., Ltd. (China)

Neuromics (US)

Bionet (Spain)

Cellexus (UK)

Research Coverage:

This research report categorizes the cell expansion market by product (consumables and equipment), by cell type (human cells, animal cells, and other cell types), by application (biopharmaceutical production, tissue engineering & regenerative medicine, drug screening & development, and other applications), by end user (pharmaceutical & biotechnology companies, research & academic institutes, hospitals & diagnostic laboratories, and other end users), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the cell expansion market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, solutions, key strategies, collaborations, partnerships, and agreements. Also, it includes new product launches, collaborations and acquisitions, and recent developments associated with the cell expansion market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall cell expansion market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (increasing prevalence of chronic diseases, rising investments and fundings in cell based research, and growing strategic alliances for the development of biotechnology industry), restraints (high cost of cell based therapies and ethical concern regarding cell biology), opportunities (growing opportunities in emerging economies, advances in 3D cell expansion technology), and Challenges (concern regarding supply chain and logistics)

influencing the growth of the market.

Product Development/Innovation: Detailed insights on newly launched products of the cell expansion market

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the cell expansion market

Competitive Assessment: Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), Sartorius AG (Germany), Corning Incorporated (US), Lonza (Switzerland), Terumo Corporation (Japan), Eppendorf SE (Germany), FUJIFILM Corporation (Japan), Bio-Techne (US), Repligen Corporation (US), Getinge AB (Sweden), Miltenyi Biotec (Germany), PerkinElmer Inc. (US), STEMCELL Technologies (Canada), PromoCell GmbH (Germany), HiMedia Laboratories (India), BD (US), Takara Bio Inc. (Japan), Shanghai Duoning Biotechnology Co., Ltd. (Japan), REPROCELL Inc. (Japan), PBS Biotech, Inc. (US), ACROBiosystems (US), Solida Biotech GmbH (Germany), Beijing CytoNiche Biotechnology Co., Ltd. (China), Neuromics (US), Bionet (Spain), and Cellexus (UK), among others in the market

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS AND EXCLUSIONS OF STUDY
- 1.3 STUDY SCOPE
 - 1.3.1 MARKET SEGMENTATION
 - 1.3.2 REGIONS COVERED
- 1.4 YEARS CONSIDERED
- 1.5 CURRENCY
- 1.6 STAKEHOLDERS
- 1.7 LIMITATIONS
- 1.8 SUMMARY OF CHANGES
- 1.9 RECESSION IMPACT

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - FIGURE 2 BREAKDOWN OF PRIMARIES: CELL EXPANSION MARKET
- 2.2 MARKET ESTIMATION METHODOLOGY
 - FIGURE 3 CELL EXPANSION MARKET SIZE ESTIMATION (SUPPLY-SIDE ANALYSIS), 2023
 - 2.3 BOTTOM-UP APPROACH
 - FIGURE 4 MARKET SIZE ESTIMATION: APPROACH 1 (COMPANY REVENUE ANALYSIS-BASED ESTIMATION), 2023
 - FIGURE 5 REVENUE SHARE ANALYSIS: ILLUSTRATIVE EXAMPLE OF THERMO FISHER SCIENTIFIC INC. (2023)
 - 2.4 INSIGHTS FROM PRIMARY EXPERTS
 - FIGURE 6 MARKET SIZE VALIDATION FROM PRIMARY SOURCES
- 2.5 TOP-DOWN APPROACH
 - FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
- 2.6 GROWTH FORECAST
 - FIGURE 8 CELL EXPANSION MARKET: CAGR PROJECTIONS
- 2.7 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 9 DATA TRIANGULATION METHODOLOGY

2.8 RESEARCH ASSUMPTIONS

2.9 MARKET FORECAST

TABLE 1 FACTOR ANALYSIS

2.10 RISK ANALYSIS

2.11 RECESSION IMPACT ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 10 CELL EXPANSION MARKET, BY PRODUCT, 2024 VS. 2029 (USD MILLION)

FIGURE 11 CELL EXPANSION MARKET, BY CELL TYPE, 2024 VS. 2029 (USD MILLION)

FIGURE 12 CELL EXPANSION MARKET, BY APPLICATION, 2024 VS. 2029 (USD MILLION)

FIGURE 13 CELL EXPANSION MARKET, BY END USER, 2024 VS. 2029 (USD MILLION)

FIGURE 14 GEOGRAPHICAL SNAPSHOT OF CELL EXPANSION MARKET

4 PREMIUM INSIGHTS

4.1 CELL EXPANSION MARKET OVERVIEW

FIGURE 15 GROWING FOCUS ON PERSONALIZED MEDICINE TO DRIVE MARKET

4.2 ASIA PACIFIC: CELL EXPANSION MARKET, BY PRODUCT & COUNTRY (2023)

FIGURE 16 CONSUMABLES ACCOUNTED FOR LARGEST SHARE OF ASIA PACIFIC CELL EXPANSION MARKET IN 2023

4.3 CELL EXPANSION MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 17 CHINA TO REGISTER HIGHEST GROWTH RATE DURING FORECAST PERIOD

4.4 CELL EXPANSION MARKET SHARE, BY END USER, 2023

FIGURE 18 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES ACCOUNTED FOR LARGEST MARKET SHARE IN 2023

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 CELL EXPANSION MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

TABLE 2 CELL EXPANSION MARKET: IMPACT ANALYSIS**5.2.1 DRIVERS**

5.2.1.1 Increasing incidence of chronic diseases

FIGURE 20 CANCER INCIDENCE, BY REGION, 2022

FIGURE 21 US: PERCENTAGE OF DEATHS CAUSED BY HEART DISEASE, 2021

5.2.1.2 Rising government investments in cell-based research and therapies

5.2.1.3 Growing focus on personalized medicine

FIGURE 22 PERCENTAGE OF PERSONALIZED MEDICINES IN FDA'S NEW DRUG APPROVALS, 2015 2022

5.2.1.4 Increasing GMP certifications for cell therapy production facilities

5.2.1.5 Growing strategic alliances for development of cell-based therapeutics

TABLE 3 STRATEGIC ALLIANCES IN CELL-BASED THERAPEUTICS**5.2.2 RESTRAINTS**

5.2.2.1 Ethical concerns regarding research in cell biology

5.2.2.2 High cost of cell-based therapies

5.2.3 OPPORTUNITIES

5.2.3.1 High growth opportunities in emerging markets

5.2.3.2 Growing utility of 3D cell expansion technology

5.2.3.3 Growing automation in cell therapy manufacturing

5.2.4 CHALLENGES

5.2.4.1 Concerns regarding supply chain logistics

5.2.4.2 Challenges related to scale-up of cell and gene therapies

5.3 TECHNOLOGY ANALYSIS**5.3.1 KEY TECHNOLOGIES**

5.3.1.1 Single-use technology

TABLE 4 ADVANTAGES OF SINGLE-USE BIOREACTORS AND CONVENTIONAL BIOREACTORS

5.3.1.2 Automated cell expansion

5.3.2 COMPLEMENTARY TECHNOLOGIES

5.3.2.1 High-throughput screening

5.3.2.2 Single-cell analysis

5.3.3 ADJACENT TECHNOLOGIES

5.3.3.1 Microfluidics and organ-on-a-chip

5.3.3.2 3D bioprinting

5.4 TRADE DATA

TABLE 5 IMPORT VALUE FOR CELL CULTURE MEDIA, 2018 2022 (USD THOUSAND)

TABLE 6 EXPORT VALUE FOR CELL CULTURE MEDIA, 2018 2022 (USD THOUSAND)

TABLE 7 IMPORT VOLUME FOR CELL CULTURE MEDIA, 2018 2022 (TONS)

TABLE 8 EXPORT VOLUME FOR CELL CULTURE MEDIA, 2018 2022 (TONS)

5.5 SUPPLY CHAIN ANALYSIS

FIGURE 23 CELL EXPANSION MARKET: SUPPLY CHAIN ANALYSIS

5.6 VALUE CHAIN ANALYSIS

FIGURE 24 CELL EXPANSION MARKET: VALUE CHAIN ANALYSIS

5.7 PRICING ANALYSIS

TABLE 9 AVERAGE SELLING PRICE OF CELL EXPANSION PRODUCTS

TABLE 10 AVERAGE SELLING PRICE OF CELL EXPANSION PRODUCTS, BY
REGION

5.8 ECOSYSTEM ANALYSIS

FIGURE 25 CELL EXPANSION MARKET: ECOSYSTEM ANALYSIS

5.8.1 RAW MATERIAL VENDORS IN CELL EXPANSION MARKET

TABLE 11 CELL CULTURE MARKET: ROLE OF RAW MATERIAL VENDORS

5.8.2 PRODUCT VENDORS IN CELL EXPANSION MARKET

TABLE 12 CELL EXPANSION MARKET: ROLE OF PRODUCT VENDORS

5.8.3 END USERS IN CELL EXPANSION MARKET

TABLE 13 CELL EXPANSION MARKET: ROLE OF END USERS

5.8.4 REGULATORY BODIES GOVERNING CELL EXPANSION MARKET

TABLE 14 CELL EXPANSION MARKET: ROLE OF REGULATORY BODIES

5.9 TRENDS/DISRUPTIONS IMPACTING CUSTOMER S BUSINESS

FIGURE 26 TRENDS/DISRUPTIONS IMPACTING CUSTOMER S BUSINESS

5.10 PATENT ANALYSIS

5.10.1 METHODOLOGY

5.10.2 PATENTS FILED, BY DOCUMENT TYPE, 2014 2024

TABLE 15 PATENTS FILED, 2014 2024

5.10.3 INNOVATION AND PATENT APPLICATIONS

FIGURE 27 TOTAL NUMBER OF PATENTS GRANTED, 2014 2024

5.10.4 TOP APPLICANTS

FIGURE 28 TOP TEN PLAYERS WITH HIGHEST NUMBER OF PATENT
APPLICATIONS, 2014 2024

TABLE 16 TOP 20 PATENT OWNERS IN CELL EXPANSION MARKET, 2014 2024

TABLE 17 PATENTS IN CELL EXPANSION MARKET, 2024

5.11 KEY CONFERENCES AND EVENTS

TABLE 18 CELL EXPANSION MARKET: KEY CONFERENCES AND EVENTS, 2024
2025

5.12 REGULATORY LANDSCAPE

5.12.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER
ORGANIZATIONS

TABLE 19 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 22 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.12.2 REGULATORY SCENARIO

TABLE 23 CELL EXPANSION MARKET: REGULATORY GUIDELINES

5.13 PORTER S FIVE FORCES ANALYSIS

TABLE 24 CELL EXPANSION MARKET: PORTER S FIVE FORCES ANALYSIS

5.13.1 THREAT OF NEW ENTRANTS

5.13.2 THREAT OF SUBSTITUTES

5.13.3 BARGAINING POWER OF SUPPLIERS

5.13.4 BARGAINING POWER OF BUYERS

5.13.5 INTENSITY OF COMPETITIVE RIVALRY

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF CELL EXPANSION PRODUCTS

5.14.2 ROLE OF STAKEHOLDERS IN BUYING PROCESS

5.14.3 BUYING CRITERIA FOR CELL EXPANSION MARKET

FIGURE 30 KEY BUYING CRITERIA FOR END USERS

TABLE 25 BUYING CRITERIA FOR CELL EXPANSION PRODUCTS, BY END USER

5.15 INVESTMENT/FUNDING ACTIVITIES

6 CELL EXPANSION MARKET, BY PRODUCT

6.1 INTRODUCTION

TABLE 26 CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

6.2 CONSUMABLES

TABLE 27 CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 28 CONSUMABLES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 29 NORTH AMERICA: CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 30 EUROPE: CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 31 ASIA PACIFIC: CONSUMABLES MARKET, BY COUNTRY, 2022 2029

(USD MILLION)

TABLE 32 LATIN AMERICA: CONSUMABLES MARKET, BY COUNTRY, 2022 2029

(USD MILLION)

TABLE 33 MIDDLE EAST: CONSUMABLES MARKET, BY COUNTRY, 2022 2029

(USD MILLION)

TABLE 34 GCC COUNTRIES: CONSUMABLES MARKET, BY COUNTRY, 2022 2029

(USD MILLION)

6.2.1 MEDIA

TABLE 35 MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 36 MEDIA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 37 NORTH AMERICA: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 38 EUROPE: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 39 ASIA PACIFIC: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 40 LATIN AMERICA: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 41 MIDDLE EAST: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 42 GCC COUNTRIES: MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.1 Serum-free media

6.2.1.1.1 Increasing utilization of serum-free components in cell research to promote market growth

TABLE 43 SERUM-FREE MEDIA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 44 NORTH AMERICA: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 45 EUROPE: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 46 ASIA PACIFIC: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 47 LATIN AMERICA: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 48 MIDDLE EAST: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 49 GCC COUNTRIES: SERUM-FREE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.2 Classical media & salts

6.2.1.2.1 Used in cell expansion to provide supportive environment for growth and

proliferation of cultured cells

TABLE 50 CLASSICAL MEDIA & SALTS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 51 NORTH AMERICA: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 52 EUROPE: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 53 ASIA PACIFIC: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 54 LATIN AMERICA: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 55 MIDDLE EAST: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 56 GCC COUNTRIES: CLASSICAL MEDIA & SALTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.3 Stem cell culture media

6.2.1.3.1 Rising investments and funding in stem cell research to support market growth

TABLE 57 STEM CELL CULTURE MEDIA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 58 NORTH AMERICA: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 59 EUROPE: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 60 ASIA PACIFIC: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 61 LATIN AMERICA: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 62 MIDDLE EAST: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 63 GCC COUNTRIES: STEM CELL CULTURE MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.4 Chemically defined media

6.2.1.4.1 Increasing number of cell-based research practices to drive market

TABLE 64 CHEMICALLY DEFINED MEDIA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 65 NORTH AMERICA: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 66 EUROPE: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022

2029 (USD MILLION)

TABLE 67 ASIA PACIFIC: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 68 LATIN AMERICA: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 69 MIDDLE EAST: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 70 GCC COUNTRIES: CHEMICALLY DEFINED MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.5 Specialty media

6.2.1.5.1 Growing focus on advancement of regenerative medicine to drive growth

TABLE 71 EXAMPLES OF SPECIALTY MEDIA OFFERED BY KEY PLAYERS

TABLE 72 SPECIALTY MEDIA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 73 NORTH AMERICA: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 74 EUROPE: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 75 ASIA PACIFIC: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 76 LATIN AMERICA: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 77 MIDDLE EAST: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 78 GCC COUNTRIES: SPECIALTY MEDIA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.1.6 Other media types

TABLE 79 OTHER MEDIA TYPES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 80 NORTH AMERICA: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 81 EUROPE: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 82 ASIA PACIFIC: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 83 LATIN AMERICA: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 84 MIDDLE EAST: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 85 GCC COUNTRIES: OTHER MEDIA TYPES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.2 REAGENTS

6.2.2.1 Rising need for unique signaling molecules for cell proliferation to boost growth

TABLE 86 REAGENTS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 87 NORTH AMERICA: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 88 EUROPE: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 89 ASIA PACIFIC: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 90 LATIN AMERICA: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 91 MIDDLE EAST: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 92 GCC COUNTRIES: REAGENTS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.3 SERA

6.2.3.1 Growing R&D activities to drive demand for sera

TABLE 93 SERA MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 94 NORTH AMERICA: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 95 EUROPE: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 96 ASIA PACIFIC: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 97 LATIN AMERICA: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 98 MIDDLE EAST: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 99 GCC COUNTRIES: SERA MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4 VESSELS

TABLE 100 VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 101 VESSELS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 102 NORTH AMERICA: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 103 EUROPE: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 104 ASIA PACIFIC: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 105 LATIN AMERICA: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 106 MIDDLE EAST: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD

MILLION)

TABLE 107 GCC COUNTRIES: VESSELS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.1 Roller/roux bottles

6.2.4.1.1 Offer economic mean for large-scale cell expansion

TABLE 108 ROLLER/ROUX BOTTLES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 109 NORTH AMERICA: ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 110 EUROPE: ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 111 ASIA PACIFIC ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 112 LATIN AMERICA: ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 113 MIDDLE EAST: ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 114 GCC COUNTRIES: ROLLER/ROUX BOTTLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.2 Cell factory systems/cell stacks

6.2.4.2.1 Provide high-throughput and scalable solutions for large-scale cell expansion

TABLE 115 CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 116 NORTH AMERICA: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 117 EUROPE: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 118 ASIA PACIFIC: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 119 LATIN AMERICA: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 120 MIDDLE EAST: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 121 GCC COUNTRIES: CELL FACTORY SYSTEMS/CELL STACKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.3 Flasks

6.2.4.3.1 Commonly used to offer large surface area for cell expansion

TABLE 122 FLASKS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 123 NORTH AMERICA: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 124 EUROPE: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 125 ASIA PACIFIC: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 126 LATIN AMERICA: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 127 MIDDLE EAST: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 128 GCC COUNTRIES: FLASKS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.4 Multiwell plates

6.2.4.4.1 Single platform for multiple processes to obtain high-volume culture

TABLE 129 MULTIWELL PLATES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 130 NORTH AMERICA: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 131 EUROPE: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 132 ASIA PACIFIC: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 133 LATIN AMERICA: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 134 MIDDLE EAST: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 135 GCC COUNTRIES: MULTIWELL PLATES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.5 Cell expansion bags

6.2.4.5.1 Reduce risk of cross-contamination and ensure consistent culture conditions

TABLE 136 CELL EXPANSION BAGS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 137 NORTH AMERICA: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 138 EUROPE: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 139 ASIA PACIFIC: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 140 LATIN AMERICA: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 141 MIDDLE EAST: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 142 GCC COUNTRIES: CELL EXPANSION BAGS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.4.6 Petri dishes

6.2.4.6.1 Ease of use to support market growth

TABLE 143 PETRI DISHES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 144 NORTH AMERICA: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 145 EUROPE: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 146 ASIA PACIFIC: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 147 LATIN AMERICA: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 148 MIDDLE EAST: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 149 GCC COUNTRIES: PETRI DISHES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.2.5 OTHER CONSUMABLES

TABLE 150 OTHER CONSUMABLES MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 151 NORTH AMERICA: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 152 EUROPE: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 153 ASIA PACIFIC: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 154 LATIN AMERICA: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 155 MIDDLE EAST: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 156 GCC COUNTRIES: OTHER CONSUMABLES MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3 EQUIPMENT

TABLE 157 EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 158 EQUIPMENT MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 159 NORTH AMERICA: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 160 EUROPE: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 161 ASIA PACIFIC: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 162 LATIN AMERICA: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 163 MIDDLE EAST: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 164 GCC COUNTRIES: EQUIPMENT MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1 BIOREACTORS

TABLE 165 BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 166 BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 167 BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 168 NORTH AMERICA: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 169 EUROPE: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 170 ASIA PACIFIC: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 171 LATIN AMERICA: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 172 MIDDLE EAST: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 173 GCC COUNTRIES: BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.1 Bioreactors, by Usage

6.3.1.1.1 Conventional Bioreactors

6.3.1.1.1.1 Widely used for large-scale manufacturing

TABLE 174 CONVENTIONAL BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 175 NORTH AMERICA: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 176 EUROPE: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 177 ASIA PACIFIC: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 178 LATIN AMERICA: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 179 MIDDLE EAST: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 180 GCC COUNTRIES: CONVENTIONAL BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.1.2 Single-use bioreactors

6.3.1.1.2.1 Increasing adoption of single-use equipment to boost segment growth

TABLE 181 SINGLE-USE BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 182 NORTH AMERICA: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 183 EUROPE: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 184 ASIA PACIFIC: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 185 LATIN AMERICA: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 186 MIDDLE EAST: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 187 GCC COUNTRIES: SINGLE-USE BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.2 Bioreactors, by Type

6.3.1.2.1 Microcarrier bioreactors

6.3.1.2.1.1 Offers high density of cells within small volume of media

TABLE 188 MICROCARRIER BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 189 NORTH AMERICA: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 190 EUROPE: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 191 ASIA PACIFIC: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 192 LATIN AMERICA: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 193 MIDDLE EAST: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 194 GCC COUNTRIES: MICROCARRIER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.2.2 Suspension-based independent bioreactors

6.3.1.2.2.1 Offer controlled environment for cell growth key factor driving market

growth

TABLE 195 SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 196 NORTH AMERICA: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 197 EUROPE: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 198 ASIA PACIFIC: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 199 LATIN AMERICA: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 200 MIDDLE EAST: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 201 GCC COUNTRIES: SUSPENSION-BASED INDEPENDENT BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.2.3 Hollow fiber bioreactors

6.3.1.2.3.1 Growing demand for perfusion-based cell expansion to drive growth

TABLE 202 HOLLOW FIBER BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 203 NORTH AMERICA: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 204 EUROPE: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 205 ASIA PACIFIC: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 206 LATIN AMERICA: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 207 MIDDLE EAST: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 208 GCC COUNTRIES: HOLLOW FIBER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.1.2.4 Other bioreactors

TABLE 209 OTHER BIOREACTORS MARKET, BY REGION, 2022 2029 (USD MILLION)

TABLE 210 NORTH AMERICA: OTHER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 211 EUROPE: OTHER BIOREACTORS MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 212 ASIA PACIFIC: OTHER BIOREACTORS MARKET, BY COUNTRY, 2022

2029 (USD MILLION)

TABLE 213 LATIN AMERICA: OTHER BIOREACTORS MARKET, BY COUNTRY,
2022 2029 (USD MILLION)

TABLE 214 MIDDLE EAST: OTHER BIOREACTORS MARKET, BY COUNTRY, 2022
2029 (USD MILLION)

TABLE 215 GCC COUNTRIES: OTHER BIOREACTORS MARKET, BY COUNTRY,
2022 2029 (USD MILLION)

6.3.2 AUTOMATED CELL EXPANSION SYSTEMS

6.3.2.1 Increasing automation in cell & gene therapy manufacturing to boost demand
TABLE 216 AUTOMATED CELL EXPANSION SYSTEMS MARKET, BY REGION, 2022
2029 (USD MILLION)

TABLE 217 NORTH AMERICA: AUTOMATED CELL EXPANSION SYSTEMS
MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 218 EUROPE: AUTOMATED CELL EXPANSION SYSTEMS MARKET, BY
COUNTRY, 2022 2029 (USD MILLION)

TABLE 219 ASIA PACIFIC: AUTOMATED CELL EXPANSION SYSTEMS MARKET,
BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 220 LATIN AMERICA: AUTOMATED CELL EXPANSION SYSTEMS MARKET,
BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 221 MIDDLE EAST: AUTOMATED CELL EXPANSION SYSTEMS MARKET,
BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 222 GCC COUNTRIES: AUTOMATED CELL EXPANSION SYSTEMS
MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

6.3.3 OTHER CELL EXPANSION EQUIPMENT

TABLE 223 OTHER CELL EXPANSION EQUIPMENT MARKET, BY REGION, 2022
2029 (USD MILLION)

TABLE 224 NORTH AMERICA: OTHER CELL EXPANSION EQUIPMENT MARKET,
BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 225 EUROPE: OTHER CELL EXPANSION EQUIPMENT MARKET, BY
COUNTRY, 2022 2029 (USD MILLION)

TABLE 226 ASIA PACIFIC: OTHER CELL EXPANSION EQUIPMENT MARKET, BY
COUNTRY, 2022 2029 (USD MILLION)

TABLE 227 LATIN AMERICA: OTHER CELL EXPANSION EQUIPMENT MARKET, BY
COUNTRY, 2022 2029 (USD MILLION)

TABLE 228 MIDDLE EAST: OTHER CELL EXPANSION EQUIPMENT MARKET, BY
COUNTRY, 2022 2029 (USD MILLION)

TABLE 229 GCC COUNTRIES: OTHER CELL EXPANSION EQUIPMENT MARKET,
BY COUNTRY, 2022 2029 (USD MILLION)

7 CELL EXPANSION MARKET, BY CELL TYPE

7.1 INTRODUCTION

TABLE 230 CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

7.2 HUMAN CELLS

TABLE 231 CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 232 CELL EXPANSION MARKET FOR HUMAN CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 233 NORTH AMERICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 234 EUROPE: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 235 ASIA PACIFIC: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 236 LATIN AMERICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 237 MIDDLE EAST: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 238 GCC COUNTRIES: CELL EXPANSION MARKET FOR HUMAN CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.2.1 STEM CELLS

TABLE 239 CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 240 CELL EXPANSION MARKET FOR STEM CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 241 NORTH AMERICA: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 242 EUROPE: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 243 ASIA PACIFIC: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 244 LATIN AMERICA: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 245 MIDDLE EAST: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 246 GCC COUNTRIES: CELL EXPANSION MARKET FOR STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.2.1.1 Adult stem cells

7.2.1.1.1 Rising funding for advancement of stem cell-based therapies to drive market

TABLE 247 CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 248 NORTH AMERICA: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 249 EUROPE: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 250 ASIA PACIFIC: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 251 LATIN AMERICA: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 252 MIDDLE EAST: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 253 GCC COUNTRIES: CELL EXPANSION MARKET FOR ADULT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.2.1.2 Embryonic stem cells

7.2.1.2.1 Rising prevalence of chronic diseases to support market growth

TABLE 254 CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 255 NORTH AMERICA: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 256 EUROPE: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 257 ASIA PACIFIC: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 258 LATIN AMERICA: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 259 MIDDLE EAST: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 260 GCC COUNTRIES: CELL EXPANSION MARKET FOR EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.2.1.3 Induced pluripotent stem cells

7.2.1.3.1 Growing number of collaborations for advancement of iPSC-based therapies to drive market

TABLE 261 CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 262 NORTH AMERICA: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 263 EUROPE: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 264 ASIA PACIFIC: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 265 LATIN AMERICA: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 266 MIDDLE EAST: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 267 GCC COUNTRIES: CELL EXPANSION MARKET FOR INDUCED PLURIPOTENT STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.2.2 DIFFERENTIATED CELLS

7.2.2.1 Increasing research activities to drive growth

TABLE 268 CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 269 NORTH AMERICA: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 270 EUROPE: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 271 ASIA PACIFIC: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 272 LATIN AMERICA: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 273 MIDDLE EAST: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 274 GCC COUNTRIES: CELL EXPANSION MARKET FOR DIFFERENTIATED CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.3 ANIMAL CELLS

TABLE 275 CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 276 CELL EXPANSION MARKET FOR ANIMAL CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 277 NORTH AMERICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 278 EUROPE: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 279 ASIA PACIFIC: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 280 LATIN AMERICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 281 MIDDLE EAST: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 282 GCC COUNTRIES: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.3.1 CHINESE HAMSTER OVARY CELLS

7.3.1.1 Growing strategic alliances for development of novel biopharmaceuticals to drive growth

TABLE 283 CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 284 NORTH AMERICA: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 285 EUROPE: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 286 ASIA PACIFIC: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 287 LATIN AMERICA: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 288 MIDDLE EAST: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 289 GCC COUNTRIES: CELL EXPANSION MARKET FOR CHINESE HAMSTER OVARY CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.3.2 MOUSE EMBRYONIC STEM CELLS

7.3.2.1 Growing research activities to develop innovative therapies to support market growth

TABLE 290 CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 291 NORTH AMERICA: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 292 EUROPE: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 293 ASIA PACIFIC: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 294 LATIN AMERICA: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 295 MIDDLE EAST: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 296 GCC COUNTRIES: CELL EXPANSION MARKET FOR MOUSE EMBRYONIC STEM CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.3.3 OTHER ANIMAL CELLS

TABLE 297 CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY REGION, 2022 2029 (USD MILLION)

TABLE 298 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 299 EUROPE: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 300 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 301 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 302 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 303 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER ANIMAL CELLS, BY COUNTRY, 2022 2029 (USD MILLION)

7.4 OTHER CELL TYPES

TABLE 304 CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY REGION, 2022 2029 (USD MILLION)

TABLE 305 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 306 EUROPE: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 307 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 308 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 309 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 310 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER CELL TYPES, BY COUNTRY, 2022 2029 (USD MILLION)

8 CELL EXPANSION MARKET, BY APPLICATION

8.1 INTRODUCTION

TABLE 311 CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

8.2 BIOPHARMACEUTICAL PRODUCTION

TABLE 312 CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 313 CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL

PRODUCTION, BY REGION, 2022 2029 (USD MILLION)

TABLE 314 NORTH AMERICA: CELL EXPANSION MARKET FOR

BIOPHARMACEUTICAL PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 315 EUROPE: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL
PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 316 ASIA PACIFIC: CELL EXPANSION MARKET FOR
BIOPHARMACEUTICAL PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 317 LATIN AMERICA: CELL EXPANSION MARKET FOR
BIOPHARMACEUTICAL PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 318 MIDDLE EAST: CELL EXPANSION MARKET FOR
BIOPHARMACEUTICAL PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 319 GCC COUNTRIES: CELL EXPANSION MARKET FOR
BIOPHARMACEUTICAL PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

8.2.1 MONOCLONAL ANTIBODY PRODUCTION

8.2.1.1 Increasing regulatory approvals for mAb treatments to drive growth

TABLE 320 CELL EXPANSION MARKET FOR MONOCLONAL ANTIBODY
PRODUCTION, BY REGION, 2022 2029 (USD MILLION)

TABLE 321 NORTH AMERICA: CELL EXPANSION MARKET FOR MONOCLONAL
ANTIBODY PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 322 EUROPE: CELL EXPANSION MARKET FOR MONOCLONAL ANTIBODY
PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 323 ASIA PACIFIC: CELL EXPANSION MARKET FOR MONOCLONAL
ANTIBODY PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 324 LATIN AMERICA: CELL EXPANSION MARKET FOR MONOCLONAL
ANTIBODY PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 325 MIDDLE EAST: CELL EXPANSION MARKET FOR MONOCLONAL
ANTIBODY PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 326 GCC COUNTRIES: CELL EXPANSION MARKET FOR MONOCLONAL
ANTIBODY PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

8.2.2 VACCINE PRODUCTION

8.2.2.1 Rising incidence of infectious diseases to drive growth

TABLE 327 CELL EXPANSION MARKET FOR VACCINE PRODUCTION, BY REGION,
2022 2029 (USD MILLION)

TABLE 328 NORTH AMERICA: CELL EXPANSION MARKET FOR VACCINE
PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 329 EUROPE: CELL EXPANSION MARKET FOR VACCINE PRODUCTION,
BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 330 ASIA PACIFIC: CELL EXPANSION MARKET FOR VACCINE
PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 331 LATIN AMERICA: CELL EXPANSION MARKET FOR VACCINE PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 332 MIDDLE EAST: CELL EXPANSION MARKET FOR VACCINE PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 333 GCC COUNTRIES: CELL EXPANSION MARKET FOR VACCINE PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

8.2.3 OTHER THERAPEUTIC PROTEIN PRODUCTION

TABLE 334 CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY REGION, 2022 2029 (USD MILLION)

TABLE 335 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 336 EUROPE: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 337 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 338 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 339 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 340 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER THERAPEUTIC PROTEIN PRODUCTION, BY COUNTRY, 2022 2029 (USD MILLION)

8.3 TISSUE ENGINEERING & REGENERATIVE MEDICINE

TABLE 341 CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 342 CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY REGION, 2022 2029 (USD MILLION)

TABLE 343 NORTH AMERICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 344 EUROPE: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 345 ASIA PACIFIC: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 346 LATIN AMERICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 347 MIDDLE EAST: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

MILLION)

TABLE 348 GCC COUNTRIES: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY COUNTRY, 2022 2029 (USD MILLION)

8.3.1 CELL & GENE THERAPY

8.3.1.1 Increasing investments in cell-based therapies to drive market

TABLE 349 CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY REGION, 2022 2029 (USD MILLION)

TABLE 350 NORTH AMERICA: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 351 EUROPE: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 352 ASIA PACIFIC: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 353 LATIN AMERICA: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 354 MIDDLE EAST: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 355 GCC COUNTRIES: CELL EXPANSION MARKET FOR CELL & GENE THERAPY, BY COUNTRY, 2022 2029 (USD MILLION)

8.3.2 OTHER TISSUE ENGINEERING & REGENERATIVE MEDICINE APPLICATIONS

TABLE 356 CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY REGION, 2022 2029 (USD MILLION)

TABLE 357 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 358 EUROPE: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 359 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 360 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 361 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 362 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER TISSUE ENGINEERING & REGENERATIVE APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

8.4 DRUG SCREENING & DEVELOPMENT

8.4.1 INCREASING DEMAND FOR NOVEL THERAPEUTICS TO SUPPORT MARKET GROWTH

TABLE 363 CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY REGION, 2022 2029 (USD MILLION)

TABLE 364 NORTH AMERICA: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 365 EUROPE: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 366 ASIA PACIFIC: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 367 LATIN AMERICA: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 368 MIDDLE EAST: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 369 GCC COUNTRIES: CELL EXPANSION MARKET FOR DRUG SCREENING & DEVELOPMENT, BY COUNTRY, 2022 2029 (USD MILLION)

8.5 OTHER APPLICATIONS

TABLE 370 CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY REGION, 2022 2029 (USD MILLION)

TABLE 371 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 372 EUROPE: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 373 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 374 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 375 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 376 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022 2029 (USD MILLION)

9 CELL EXPANSION MARKET, BY END USER

9.1 INTRODUCTION

TABLE 377 CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)**9.2 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES****9.2.1 GROWING STRATEGIC ALLIANCES BY KEY MARKET PLAYERS TO DRIVE GROWTH****TABLE 378 CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2022 2029 (USD MILLION)****TABLE 379 NORTH AMERICA: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 380 EUROPE: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 381 ASIA PACIFIC: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 382 LATIN AMERICA: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 383 MIDDLE EAST: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 384 GCC COUNTRIES: CELL EXPANSION MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022 2029 (USD MILLION)****9.3 RESEARCH & ACADEMIC INSTITUTES****9.3.1 INCREASING GOVERNMENT FUNDING FOR CELL-BASED RESEARCH TO DRIVE MARKET****TABLE 385 CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY REGION, 2022 2029 (USD MILLION)****TABLE 386 NORTH AMERICA: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 387 EUROPE: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 388 ASIA PACIFIC: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 389 LATIN AMERICA: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 390 MIDDLE EAST: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****TABLE 391 GCC COUNTRIES: CELL EXPANSION MARKET FOR RESEARCH & ACADEMIC INSTITUTES, BY COUNTRY, 2022 2029 (USD MILLION)****9.4 HOSPITALS & DIAGNOSTIC LABORATORIES****9.4.1 GROWING DEMAND FOR CELL-BASED THERAPIES TO PROPEL MARKET**

TABLE 392 CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY REGION, 2022 2029 (USD MILLION)

TABLE 393 NORTH AMERICA: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 394 EUROPE: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 395 ASIA PACIFIC: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 396 LATIN AMERICA: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 397 MIDDLE EAST: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 398 GCC COUNTRIES: CELL EXPANSION MARKET FOR HOSPITALS & DIAGNOSTIC LABORATORIES, BY COUNTRY, 2022 2029 (USD MILLION)

9.5 OTHER END USERS

TABLE 399 CELL EXPANSION MARKET FOR OTHER END USERS, BY REGION, 2022 2029 (USD MILLION)

TABLE 400 NORTH AMERICA: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 401 EUROPE: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 402 ASIA PACIFIC: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 403 LATIN AMERICA: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 404 MIDDLE EAST: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 405 GCC COUNTRIES: CELL EXPANSION MARKET FOR OTHER END USERS, BY COUNTRY, 2022 2029 (USD MILLION)

10 CELL EXPANSION MARKET, BY REGION

10.1 INTRODUCTION

TABLE 406 CELL EXPANSION MARKET, BY REGION, 2022 2029 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 31 NORTH AMERICA: CELL EXPANSION MARKET SNAPSHOT

TABLE 407 NORTH AMERICA: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 408 NORTH AMERICA: CELL EXPANSION MARKET, BY PRODUCT, 2022

2029 (USD MILLION)

TABLE 409 NORTH AMERICA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 410 NORTH AMERICA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 411 NORTH AMERICA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 412 NORTH AMERICA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 413 NORTH AMERICA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 414 NORTH AMERICA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 415 NORTH AMERICA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 416 NORTH AMERICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 417 NORTH AMERICA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 418 NORTH AMERICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 419 NORTH AMERICA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 420 NORTH AMERICA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 421 NORTH AMERICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 422 NORTH AMERICA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.2.1 US

10.2.1.1 Rising investments in cell-based research to drive market

TABLE 423 US: CELL & GENE THERAPY APPROVALS, 2022

TABLE 424 US: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 425 US: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 426 US: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 427 US: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 428 US: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 429 US: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 430 US: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 431 US: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 432 US: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 433 US: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 434 US: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 435 US: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 436 US: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 437 US: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 438 US: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.2.2 CANADA

10.2.2.1 Growing funding for advancement of regenerative medicine to support market growth

TABLE 439 CANADA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 440 CANADA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 441 CANADA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 442 CANADA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 443 CANADA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 444 CANADA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 445 CANADA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 446 CANADA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 447 CANADA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 448 CANADA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 449 CANADA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 450 CANADA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 451 CANADA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 452 CANADA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 453 CANADA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.2.3 NORTH AMERICA: RECESSION IMPACT

10.3 EUROPE

TABLE 454 EUROPE: NEW CELL THERAPY APPROVALS, 2022

TABLE 455 EUROPE: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 456 EUROPE: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 457 EUROPE: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 458 EUROPE: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 459 EUROPE: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 460 EUROPE: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 461 EUROPE: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 462 EUROPE: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 463 EUROPE: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 464 EUROPE: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 465 EUROPE: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 466 EUROPE: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 467 EUROPE: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 468 EUROPE: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 469 EUROPE: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 470 EUROPE: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD

MILLION)

10.3.1 GERMANY

10.3.1.1 Increasing number of strategic alliances for development of cell-based therapies to drive market

TABLE 471 GERMANY: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 472 GERMANY: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 473 GERMANY: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 474 GERMANY: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 475 GERMANY: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 476 GERMANY: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 477 GERMANY: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 478 GERMANY: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 479 GERMANY: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 480 GERMANY: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 481 GERMANY: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 482 GERMANY: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 483 GERMANY: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 484 GERMANY: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 485 GERMANY: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.2 UK

10.3.2.1 Increasing focus on advancement of regenerative medicine to propel market

TABLE 486 UK: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 487 UK: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 488 UK: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 489 UK: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 490 UK: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 491 UK: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 492 UK: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 493 UK: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 494 UK: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 495 UK: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 496 UK: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 497 UK: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 498 UK: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 499 UK: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 500 UK: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.3 FRANCE

10.3.3.1 Growing strategic alliances for development of advanced cell and gene therapies to support market growth

TABLE 501 FRANCE: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 502 FRANCE: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 503 FRANCE: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 504 FRANCE: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 505 FRANCE: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 506 FRANCE: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 507 FRANCE: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 508 FRANCE: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 509 FRANCE: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 510 FRANCE: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 511 FRANCE: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE,

2022 2029 (USD MILLION)

TABLE 512 FRANCE: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 513 FRANCE: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 514 FRANCE: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 515 FRANCE: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.4 ITALY

10.3.4.1 Increased focus on life sciences R&D activities and growing biotech industry to drive market

TABLE 516 ITALY: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 517 ITALY: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 518 ITALY: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 519 ITALY: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 520 ITALY: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 521 ITALY: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 522 ITALY: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 523 ITALY: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 524 ITALY: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 525 ITALY: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 526 ITALY: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 527 ITALY: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 528 ITALY: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 529 ITALY: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 530 ITALY: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.5 SPAIN

10.3.5.1 Expansion of biotech companies to support market growth

TABLE 531 SPAIN: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD

MILLION)

TABLE 532 SPAIN: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 533 SPAIN: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 534 SPAIN: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 535 SPAIN: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 536 SPAIN: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 537 SPAIN: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 538 SPAIN: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 539 SPAIN: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 540 SPAIN: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 541 SPAIN: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 542 SPAIN: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 543 SPAIN: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 544 SPAIN: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 545 SPAIN: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.6 REST OF EUROPE

TABLE 546 REST OF EUROPE: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 547 REST OF EUROPE: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 548 REST OF EUROPE: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 549 REST OF EUROPE: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 550 REST OF EUROPE: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 551 REST OF EUROPE: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 552 REST OF EUROPE: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 553 REST OF EUROPE: CELL EXPANSION MARKET, BY CELL TYPE, 2022

2029 (USD MILLION)

TABLE 554 REST OF EUROPE: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 555 REST OF EUROPE: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 556 REST OF EUROPE: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 557 REST OF EUROPE: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 558 REST OF EUROPE: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 559 REST OF EUROPE: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 560 REST OF EUROPE: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.3.7 EUROPE: RECESSION IMPACT

10.4 ASIA PACIFIC

FIGURE 32 ASIA PACIFIC: CELL EXPANSION MARKET SNAPSHOT

TABLE 561 ASIA PACIFIC: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 562 ASIA PACIFIC: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 563 ASIA PACIFIC: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 564 ASIA PACIFIC: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 565 ASIA PACIFIC: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 566 ASIA PACIFIC: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 567 ASIA PACIFIC: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 568 ASIA PACIFIC: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 569 ASIA PACIFIC: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 570 ASIA PACIFIC: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 571 ASIA PACIFIC: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 572 ASIA PACIFIC: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY

TYPE, 2022 2029 (USD MILLION)

TABLE 573 ASIA PACIFIC: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 574 ASIA PACIFIC: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 575 ASIA PACIFIC: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 576 ASIA PACIFIC: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.1 CHINA

10.4.1.1 Increasing R&D expenditure and rising number of clinical trials for novel therapeutics to propel market

TABLE 577 CHINA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 578 CHINA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 579 CHINA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 580 CHINA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 581 CHINA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 582 CHINA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 583 CHINA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 584 CHINA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 585 CHINA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 586 CHINA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 587 CHINA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 588 CHINA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 589 CHINA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 590 CHINA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 591 CHINA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.2 JAPAN

10.4.2.1 Rising investments for advancement of biotechnology sector to boost market

growth

TABLE 592 JAPAN: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 593 JAPAN: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 594 JAPAN: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 595 JAPAN: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 596 JAPAN: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 597 JAPAN: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 598 JAPAN: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 599 JAPAN: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 600 JAPAN: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 601 JAPAN: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 602 JAPAN: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 603 JAPAN: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 604 JAPAN: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 605 JAPAN: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 606 JAPAN: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.3 INDIA

10.4.3.1 Rising funding to boost biopharmaceutical sector and growing focus on development of cell-based therapies to propel market

TABLE 607 INDIA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 608 INDIA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 609 INDIA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 610 INDIA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 611 INDIA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 612 INDIA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 613 INDIA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 614 INDIA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 615 INDIA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 616 INDIA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 617 INDIA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 618 INDIA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 619 INDIA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 620 INDIA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 621 INDIA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.4 SOUTH KOREA

10.4.4.1 Growing strategic alliances and investments in research to drive market

TABLE 622 SOUTH KOREA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 623 SOUTH KOREA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 624 SOUTH KOREA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 625 SOUTH KOREA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 626 SOUTH KOREA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 627 SOUTH KOREA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 628 SOUTH KOREA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 629 SOUTH KOREA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 630 SOUTH KOREA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 631 SOUTH KOREA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 632 SOUTH KOREA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 633 SOUTH KOREA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 634 SOUTH KOREA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 635 SOUTH KOREA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 636 SOUTH KOREA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.5 AUSTRALIA

10.4.5.1 Growing life science sector to drive market

TABLE 637 AUSTRALIA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 638 AUSTRALIA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 639 AUSTRALIA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 640 AUSTRALIA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 641 AUSTRALIA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 642 AUSTRALIA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 643 AUSTRALIA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 644 AUSTRALIA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 645 AUSTRALIA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 646 AUSTRALIA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 647 AUSTRALIA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 648 AUSTRALIA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 649 AUSTRALIA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 650 AUSTRALIA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 651 AUSTRALIA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.6 REST OF ASIA PACIFIC

TABLE 652 REST OF ASIA PACIFIC: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 653 REST OF ASIA PACIFIC: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 654 REST OF ASIA PACIFIC: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 655 REST OF ASIA PACIFIC: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 656 REST OF ASIA PACIFIC: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 657 REST OF ASIA PACIFIC: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 658 REST OF ASIA PACIFIC: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 659 REST OF ASIA PACIFIC: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 660 REST OF ASIA PACIFIC: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 661 REST OF ASIA PACIFIC: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 662 REST OF ASIA PACIFIC: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 663 REST OF ASIA PACIFIC: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 664 REST OF ASIA PACIFIC: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 665 REST OF ASIA PACIFIC: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 666 REST OF ASIA PACIFIC: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.4.7 ASIA PACIFIC: RECESSION IMPACT

10.5 LATIN AMERICA

TABLE 667 LATIN AMERICA: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 668 LATIN AMERICA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 669 LATIN AMERICA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 670 LATIN AMERICA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 671 LATIN AMERICA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 672 LATIN AMERICA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 673 LATIN AMERICA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 674 LATIN AMERICA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 675 LATIN AMERICA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 676 LATIN AMERICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 677 LATIN AMERICA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 678 LATIN AMERICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 679 LATIN AMERICA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 680 LATIN AMERICA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 681 LATIN AMERICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 682 LATIN AMERICA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.5.1 BRAZIL

10.5.1.1 Increasing demand for biopharmaceuticals to drive market

TABLE 683 BRAZIL: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 684 BRAZIL: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 685 BRAZIL: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 686 BRAZIL: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 687 BRAZIL: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 688 BRAZIL: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 689 BRAZIL: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 690 BRAZIL: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 691 BRAZIL: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 692 BRAZIL: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 693 BRAZIL: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 694 BRAZIL: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 695 BRAZIL: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 696 BRAZIL: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 697 BRAZIL: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.5.2 MEXICO

10.5.2.1 Increasing government support for biopharmaceutical production to support market growth

TABLE 698 MEXICO: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 699 MEXICO: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 700 MEXICO: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 701 MEXICO: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 702 MEXICO: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 703 MEXICO: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 704 MEXICO: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 705 MEXICO: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 706 MEXICO: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 707 MEXICO: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 708 MEXICO: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 709 MEXICO: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 710 MEXICO: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 711 MEXICO: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 712 MEXICO: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

MILLION)

10.5.3 REST OF LATIN AMERICA

TABLE 713 REST OF LATIN AMERICA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 714 REST OF LATIN AMERICA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 715 REST OF LATIN AMERICA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 716 REST OF LATIN AMERICA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 717 REST OF LATIN AMERICA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 718 REST OF LATIN AMERICA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 719 REST OF LATIN AMERICA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 720 REST OF LATIN AMERICA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 721 REST OF LATIN AMERICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 722 REST OF LATIN AMERICA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 723 REST OF LATIN AMERICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 724 REST OF LATIN AMERICA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 725 REST OF LATIN AMERICA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 726 REST OF LATIN AMERICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 727 REST OF LATIN AMERICA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.5.4 LATIN AMERICA: RECESSION IMPACT

10.6 MIDDLE EAST

TABLE 728 MIDDLE EAST: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 729 MIDDLE EAST: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 730 MIDDLE EAST: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD

MILLION)

TABLE 731 MIDDLE EAST: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 732 MIDDLE EAST: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 733 MIDDLE EAST: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 734 MIDDLE EAST: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 735 MIDDLE EAST: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 736 MIDDLE EAST: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 737 MIDDLE EAST: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 738 MIDDLE EAST: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 739 MIDDLE EAST: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 740 MIDDLE EAST: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 741 MIDDLE EAST: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 742 MIDDLE EAST: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 743 MIDDLE EAST: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.6.1 GCC COUNTRIES

TABLE 744 GCC COUNTRIES: CELL EXPANSION MARKET, BY COUNTRY, 2022 2029 (USD MILLION)

TABLE 745 GCC COUNTRIES: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 746 GCC COUNTRIES: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 747 GCC COUNTRIES: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 748 GCC COUNTRIES: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 749 GCC COUNTRIES: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 750 GCC COUNTRIES: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 751 GCC COUNTRIES: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 752 GCC COUNTRIES: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 753 GCC COUNTRIES: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 754 GCC COUNTRIES: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 755 GCC COUNTRIES: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 756 GCC COUNTRIES: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 757 GCC COUNTRIES: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 758 GCC COUNTRIES: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 759 GCC COUNTRIES: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.6.1.1 Saudi Arabia

10.6.1.1.1 Increasing focus of key players on expansion strategies to drive market

TABLE 760 SAUDI ARABIA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 761 SAUDI ARABIA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 762 SAUDI ARABIA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 763 SAUDI ARABIA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 764 SAUDI ARABIA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 765 SAUDI ARABIA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 766 SAUDI ARABIA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 767 SAUDI ARABIA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 768 SAUDI ARABIA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 769 SAUDI ARABIA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 770 SAUDI ARABIA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 771 SAUDI ARABIA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 772 SAUDI ARABIA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 773 SAUDI ARABIA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 774 SAUDI ARABIA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.6.1.2 United Arab Emirates

10.6.1.2.1 Governmental initiatives to support market growth

TABLE 775 UNITED ARAB EMIRATES: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 776 UNITED ARAB EMIRATES: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 777 UNITED ARAB EMIRATES: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 778 UNITED ARAB EMIRATES: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 779 UNITED ARAB EMIRATES: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 780 UNITED ARAB EMIRATES: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 781 UNITED ARAB EMIRATES: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 782 UNITED ARAB EMIRATES: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 783 UNITED ARAB EMIRATES: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 784 UNITED ARAB EMIRATES: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 785 UNITED ARAB EMIRATES: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 786 UNITED ARAB EMIRATES: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 787 UNITED ARAB EMIRATES: CELL EXPANSION MARKET FOR

BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 788 UNITED ARAB EMIRATES: CELL EXPANSION MARKET FOR TISSUE

ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 789 UNITED ARAB EMIRATES: CELL EXPANSION MARKET, BY END USER,
2022 2029 (USD MILLION)

10.6.1.3 Rest of GCC countries

TABLE 790 REST OF GCC COUNTRIES: CELL EXPANSION MARKET, BY
PRODUCT, 2022 2029 (USD MILLION)

TABLE 791 REST OF GCC COUNTRIES: CONSUMABLES MARKET, BY TYPE, 2022
2029 (USD MILLION)

TABLE 792 REST OF GCC COUNTRIES: MEDIA MARKET, BY TYPE, 2022 2029
(USD MILLION)

TABLE 793 REST OF GCC COUNTRIES: VESSELS MARKET, BY TYPE, 2022 2029
(USD MILLION)

TABLE 794 REST OF GCC COUNTRIES: EQUIPMENT MARKET, BY TYPE, 2022
2029 (USD MILLION)

TABLE 795 REST OF GCC COUNTRIES: BIOREACTORS MARKET, BY USAGE,
2022 2029 (USD MILLION)

TABLE 796 REST OF GCC COUNTRIES: BIOREACTORS MARKET, BY TYPE, 2022
2029 (USD MILLION)

TABLE 797 REST OF GCC COUNTRIES: CELL EXPANSION MARKET, BY CELL
TYPE, 2022 2029 (USD MILLION)

TABLE 798 REST OF GCC COUNTRIES: CELL EXPANSION MARKET FOR HUMAN
CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 799 REST OF GCC COUNTRIES: CELL EXPANSION MARKET FOR STEM
CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 800 REST OF GCC COUNTRIES: CELL EXPANSION MARKET FOR ANIMAL
CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 801 REST OF GCC COUNTRIES: CELL EXPANSION MARKET, BY
APPLICATION, 2022 2029 (USD MILLION)

TABLE 802 REST OF GCC COUNTRIES: CELL EXPANSION MARKET FOR
BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 803 REST OF GCC COUNTRIES: CELL EXPANSION MARKET FOR TISSUE
ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 804 REST OF GCC COUNTRIES: CELL EXPANSION MARKET, BY END
USER, 2022 2029 (USD MILLION)

10.6.2 REST OF THE MIDDLE EAST

TABLE 805 REST OF MIDDLE EAST: CELL EXPANSION MARKET, BY PRODUCT,
2022 2029 (USD MILLION)

TABLE 806 REST OF MIDDLE EAST: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 807 REST OF MIDDLE EAST: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 808 REST OF MIDDLE EAST: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 809 REST OF MIDDLE EAST: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 810 REST OF MIDDLE EAST: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 811 REST OF MIDDLE EAST: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 812 REST OF MIDDLE EAST: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 813 REST OF MIDDLE EAST: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 814 REST OF MIDDLE EAST: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 815 REST OF MIDDLE EAST: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 816 REST OF MIDDLE EAST: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 817 REST OF MIDDLE EAST: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 818 REST OF MIDDLE EAST: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 819 REST OF MIDDLE EAST: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

10.6.3 MIDDLE EAST: RECESSION IMPACT

10.7 AFRICA

10.7.1 RISING FUNDING ACTIVITIES FOR BIOPHARMA AND CELL & GENE THERAPY TO FUEL MARKET GROWTH

10.7.2 AFRICA: RECESSION IMPACT

TABLE 820 AFRICA: CELL EXPANSION MARKET, BY PRODUCT, 2022 2029 (USD MILLION)

TABLE 821 AFRICA: CONSUMABLES MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 822 AFRICA: MEDIA MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 823 AFRICA: VESSELS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 824 AFRICA: EQUIPMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 825 AFRICA: BIOREACTORS MARKET, BY USAGE, 2022 2029 (USD MILLION)

TABLE 826 AFRICA: BIOREACTORS MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 827 AFRICA: CELL EXPANSION MARKET, BY CELL TYPE, 2022 2029 (USD MILLION)

TABLE 828 AFRICA: CELL EXPANSION MARKET FOR HUMAN CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 829 AFRICA: CELL EXPANSION MARKET FOR STEM CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 830 AFRICA: CELL EXPANSION MARKET FOR ANIMAL CELLS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 831 AFRICA: CELL EXPANSION MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

TABLE 832 AFRICA: CELL EXPANSION MARKET FOR BIOPHARMACEUTICAL PRODUCTION, BY TYPE, 2022 2029 (USD MILLION)

TABLE 833 AFRICA: CELL EXPANSION MARKET FOR TISSUE ENGINEERING & REGENERATIVE MEDICINE, BY TYPE, 2022 2029 (USD MILLION)

TABLE 834 AFRICA: CELL EXPANSION MARKET, BY END USER, 2022 2029 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 STRATEGIES ADOPTED BY KEY PLAYERS/RIGHT TO WIN

TABLE 835 STRATEGIES ADOPTED BY KEY PLAYERS IN CELL EXPANSION MARKET, 2021 2024

11.3 REVENUE SHARE ANALYSIS

FIGURE 33 REVENUE SHARE ANALYSIS OF KEY PLAYERS IN CELL EXPANSION MARKET, 2019 2023 (USD MILLION)

11.4 MARKET SHARE ANALYSIS

FIGURE 34 CELL EXPANSION MARKET SHARE ANALYSIS, BY KEY PLAYER (2023)

TABLE 836 CELL EXPANSION MARKET: DEGREE OF COMPETITION

11.5 BRAND/PRODUCT COMPARATIVE ANALYSIS

FIGURE 35 BRAND/PRODUCT COMPARATIVE ANALYSIS

11.6 COMPANY EVALUATION MATRIX: KEY PLAYERS

11.6.1 STARS

11.6.2 EMERGING LEADERS

11.6.3 PERVASIVE PLAYERS

11.6.4 PARTICIPANTS

FIGURE 36 CELL EXPANSION MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

11.7 COMPANY FOOTPRINT: KEY PLAYERS

11.7.1 COMPANY FOOTPRINT

FIGURE 37 CELL EXPANSION MARKET: COMPANY FOOTPRINT

11.7.2 REGIONAL FOOTPRINT

TABLE 837 CELL EXPANSION MARKET: REGIONAL FOOTPRINT

11.7.3 PRODUCT FOOTPRINT

TABLE 838 CELL EXPANSION MARKET: PRODUCT FOOTPRINT

11.7.4 APPLICATION FOOTPRINT

TABLE 839 CELL EXPANSION MARKET: APPLICATION FOOTPRINT

11.7.5 END-USER FOOTPRINT

TABLE 840 CELL EXPANSION MARKET: END-USER FOOTPRINT

11.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES

11.8.1 PROGRESSIVE COMPANIES

11.8.2 STARTING BLOCKS

11.8.3 RESPONSIVE COMPANIES

11.8.4 DYNAMIC COMPANIES

FIGURE 38 CELL EXPANSION MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2023

11.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES

TABLE 841 CELL EXPANSION MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 842 CELL EXPANSION MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/ SMES, 2023

11.9 VALUATION AND FINANCIAL METRICS OF CELL EXPANSION VENDORS

FIGURE 39 EV/EBITDA OF KEY VENDORS

FIGURE 40 YEAR-TO-DATE (YTD) PRICE TOTAL RETURN AND 5-YEAR STOCK BETA OF KEY VENDORS

11.10 COMPETITIVE SCENARIO

11.10.1 PRODUCT LAUNCHES

TABLE 843 CELL EXPANSION MARKET: PRODUCT LAUNCHES, JANUARY 2021 JANUARY 2024

11.10.2 DEALS

TABLE 844 CELL EXPANSION MARKET: DEALS, JANUARY 2021 JANUARY 2024

11.10.3 EXPANSIONS

TABLE 845 CELL EXPANSION MARKET: EXPANSIONS, JANUARY 2021 JANUARY 2024

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

12.1 INTRODUCTION

12.2 KEY PLAYERS

12.2.1 THERMO FISHER SCIENTIFIC INC.

TABLE 846 THERMO FISHER SCIENTIFIC INC.: COMPANY OVERVIEW

FIGURE 41 THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT (2023)

TABLE 847 THERMO FISHER SCIENTIFIC INC.: PRODUCTS OFFERED

TABLE 848 THERMO FISHER SCIENTIFIC INC.: PRODUCT LAUNCHES

TABLE 849 THERMO FISHER SCIENTIFIC INC.: DEALS

TABLE 850 THERMO FISHER SCIENTIFIC INC.: EXPANSIONS

12.2.2 DANAHER CORPORATION

TABLE 851 DANAHER CORPORATION: COMPANY OVERVIEW

FIGURE 42 DANAHER CORPORATION: COMPANY SNAPSHOT (2023)

TABLE 852 DANAHER CORPORATION: PRODUCTS OFFERED

TABLE 853 DANAHER CORPORATION: PRODUCT LAUNCHES

TABLE 854 DANAHER CORPORATION: DEALS

TABLE 855 DANAHER CORPORATION: EXPANSIONS

TABLE 856 DANAHER CORPORATION: OTHER DEVELOPMENTS

12.2.3 MERCK KGAA

TABLE 857 MERCK KGAA: COMPANY OVERVIEW

FIGURE 43 MERCK KGAA: COMPANY SNAPSHOT (2023)

TABLE 858 MERCK KGAA: PRODUCTS OFFERED

TABLE 859 MERCK KGAA: DEALS

TABLE 860 MERCK KGAA: EXPANSIONS

12.2.4 SARTORIUS AG

TABLE 861 SARTORIUS AG: COMPANY OVERVIEW

FIGURE 44 SARTORIUS AG: COMPANY SNAPSHOT (2023)

TABLE 862 SARTORIUS AG: PRODUCTS OFFERED

TABLE 863 SARTORIUS AG: DEALS

TABLE 864 SARTORIUS AG: EXPANSIONS

12.2.5 CORNING INCORPORATED

TABLE 865 CORNING INCORPORATED: COMPANY OVERVIEW

FIGURE 45 CORNING INCORPORATED: COMPANY SNAPSHOT (2023)

TABLE 866 CORNING INCORPORATED: PRODUCTS OFFERED

TABLE 867 CORNING INCORPORATED: PRODUCT LAUNCHES

TABLE 868 CORNING INCORPORATED: DEALS

12.2.6 LONZA

TABLE 869 LONZA: COMPANY OVERVIEW

FIGURE 46 LONZA: COMPANY SNAPSHOT (2023)

TABLE 870 LONZA: PRODUCTS OFFERED

TABLE 871 LONZA: PRODUCT LAUNCHES

TABLE 872 LONZA: DEALS

TABLE 873 LONZA: EXPANSIONS

12.2.7 TERUMO CORPORATION

TABLE 874 TERUMO CORPORATION: COMPANY OVERVIEW

FIGURE 47 TERUMO CORPORATION: COMPANY SNAPSHOT (2022)

TABLE 875 TERUMO CORPORATION: PRODUCTS OFFERED

TABLE 876 TERUMO CORPORATION: PRODUCT LAUNCHES

TABLE 877 TERUMO CORPORATION: DEALS

12.2.8 EPPENDORF SE

TABLE 878 EPPENDORF SE: COMPANY OVERVIEW

FIGURE 48 EPPENDORF SE: COMPANY SNAPSHOT (2022)

TABLE 879 EPPENDORF SE: PRODUCTS OFFERED

TABLE 880 EPPENDORF SE: PRODUCT LAUNCHES

TABLE 881 EPPENDORF SE: EXPANSIONS

12.2.9 FUJIFILM CORPORATION

TABLE 882 FUJIFILM CORPORATION: COMPANY OVERVIEW

FIGURE 49 FUJIFILM CORPORATION: COMPANY SNAPSHOT (2022)

TABLE 883 FUJIFILM CORPORATION: PRODUCTS OFFERED

TABLE 884 FUJIFILM CORPORATION: PRODUCT LAUNCHES

TABLE 885 FUJIFILM CORPORATION: DEALS

TABLE 886 FUJIFILM CORPORATION: EXPANSIONS

12.2.10 BIO-TECHNE

TABLE 887 BIO-TECHNE: COMPANY OVERVIEW

FIGURE 50 BIO-TECHNE: COMPANY SNAPSHOT (2023)

TABLE 888 BIO-TECHNE: PRODUCTS OFFERED

TABLE 889 BIO-TECHNE: PRODUCT LAUNCHES

TABLE 890 BIO-TECHNE: DEALS

12.2.11 REPLIGEN CORPORATION

TABLE 891 REPLIGEN CORPORATION: COMPANY OVERVIEW

FIGURE 51 REPLIGEN CORPORATION: COMPANY SNAPSHOT (2023)

TABLE 892 REPLIGEN CORPORATION: PRODUCTS OFFERED

TABLE 893 REPLIGEN CORPORATION: DEALS

12.2.12 GETINGE AB

TABLE 894 GETINGE AB: COMPANY OVERVIEW

FIGURE 52 GETINGE AB: COMPANY SNAPSHOT (2022)

TABLE 895 GETINGE AB: PRODUCTS OFFERED

TABLE 896 GETINGE AB: PRODUCT LAUNCHES

TABLE 897 GETINGE AB: DEALS

12.2.13 BD

TABLE 898 BD: BUSINESS OVERVIEW

FIGURE 53 BD: COMPANY SNAPSHOT (2023)

TABLE 899 BD: PRODUCTS OFFERED

12.2.14 MILTENYI BIOTEC

TABLE 900 MILTENYI BIOTEC: COMPANY OVERVIEW

TABLE 901 MILTENYI BIOTEC: PRODUCTS OFFERED

TABLE 902 MILTENYI BIOTEC: EXPANSIONS

12.2.15 PERKINELMER INC.

TABLE 903 PERKINELMER INC.: COMPANY OVERVIEW

FIGURE 54 PERKINELMER INC.: COMPANY SNAPSHOT (2022)

TABLE 904 PERKINELMER INC.: PRODUCTS OFFERED

TABLE 905 PERKINELMER INC.: DEALS

12.2.16 STEMCELL TECHNOLOGIES

TABLE 906 STEMCELL TECHNOLOGIES: COMPANY OVERVIEW

TABLE 907 STEMCELL TECHNOLOGIES: PRODUCTS OFFERED

TABLE 908 STEMCELL TECHNOLOGIES: DEALS

12.2.17 PROMOCCELL GMBH

TABLE 909 PROMOCCELL GMBH: COMPANY OVERVIEW

TABLE 910 PROMOCCELL GMBH: PRODUCTS OFFERED

TABLE 911 PROMOCCELL GMBH: PRODUCT LAUNCHES

12.2.18 HIMEDIA LABORATORIES

TABLE 912 HIMEDIA LABORATORIES: COMPANY OVERVIEW

TABLE 913 HIMEDIA LABORATORIES: PRODUCTS OFFERED

12.3 OTHER PLAYERS

12.3.1 TAKARA BIO INC.

TABLE 914 TAKARA BIO INC.: BUSINESS OVERVIEW

12.3.2 SHANGHAI DUONING BIOTECHNOLOGY CO., LTD.

TABLE 915 SHANGHAI DUONING BIOTECHNOLOGY CO., LTD.: BUSINESS OVERVIEW

12.3.3 REPROCELL INC.

TABLE 916 REPROCELL INC.: BUSINESS OVERVIEW

TABLE 917 PBS BIOTECH, INC.: BUSINESS OVERVIEW

12.3.4 ACROBIOSYSTEMS

TABLE 918 ACROBIOSYSTEMS: COMPANY OVERVIEW

12.3.5 SOLIDA BIOTECH GMBH

TABLE 919 SOLIDA BIOTECH GMBH: BUSINESS OVERVIEW

12.3.6 BEIJING CYTONICHE BIOTECHNOLOGY CO., LTD.

TABLE 920 BEIJING CYTONICHE BIOTECHNOLOGY CO., LTD.: BUSINESS OVERVIEW

12.3.7 NEUROMICS

TABLE 921 NEUROMICS: BUSINESS OVERVIEW

12.3.8 BIONET

TABLE 922 BIONET: BUSINESS OVERVIEW

12.3.9 CELLEXUS

TABLE 923 CELLEXUS: BUSINESS OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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