

Organoids And Spheroids Market Size, Share & Trends Analysis Report By Type (Neurospheres, iPSCs Derived Cells, Hepatic Organoids), By Application, By End Use, By Region, And Segment Forecasts, 2020 - 2027

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Abstracts

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Organoids And Spheroids Market Growth & Trends

The global organoids and spheroids market size is expected to reach USD 2.1 billion by 2027, according to a new report by Grand View Research, Inc., expanding at a CAGR of 22.5% over the forecast period. A rise in the adoption of organoid cultures in drug discovery, and rising demand for cell therapy and tissue engineering across the globe is expected to drive the market.

3D spheroids are considered as an important aspect of tissue engineering and regenerative medicine research as they can be used as building blocks for the generation of complex tissues and organs. In addition, the potential of 3D cell cultures to be used as models for drug screening and analysis of human disorders are expected to provide ample growth opportunities to the market in the near future.

A rise in the adoption of organoid cultures for the assessment of the mechanism of human-specific disorders is expected to enhance the market growth. For instance, human organoids have helped in the analysis of a wide range of tissues including the small intestine, prostate, brain, and liver. The promise of the generation of 3D cell cultures that resemble human organs has brought an enormous potential for the use of organoids as cell therapies, and as prospective substitutes for whole-organ transplantation.

Organoids And Spheroids Market Report Highlights

The spheroids segment is anticipated to dominate the market throughout the analysis period

Higher adoption of 3D spheroids in the fields of drug discovery, disease modeling, and safety testing is a key factor driving the segment

The developmental biology application segment accounted for the largest revenue share in 2019 as the development of organoids from Induced Pluripotent Stem Cells (iPSCs) have paved way for dynamic observation of cell development and propelled the adoption of mechanistic studies for human development

Biotechnology and pharmaceutical industries dominated the end-use segment in the market in 2019. This is because of the high utilization rate of organoids and spheroids in pre-clinical drug discovery by pharma entities

In addition, these players are actively involved in the development of advanced products that enhance the efficiency of organoid and spheroid generation.

For instance, In December 2018, Sun Bioscience developed a robotic platform specially designed for the production of organoids for personalized medicine. The platform facilitates automated image-based screening of such cells

In North America, the market generated the highest revenue in 2019 due to higher adoption of technologically advanced cell culture platforms, and the presence of a large number of universities and academic institutions actively involved in cell and organ-based studies

In addition, a higher adoption rate of organoid and spheroid culture products and efficient healthcare infrastructure in North America is attributive to the largest revenue generation from the region

In Asia Pacific, the market is anticipated to witness lucrative growth over the forecast period.

Presence of key players and government organizations such as STEMCELL

Technologies, Australasian Society for Stem Cell Research (ASSCR), The Japanese Society for Regenerative Medicine, The Korean Society for Stem Cell Research (KSSCR), and others are expected to enhance the penetration of organoid and spheroid culture in Asia

The key players are constantly involved in research and development of new products so that they can enhance their market position.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Assumptions
- 1.2 Research Methodology
- 1.3 Information Procurement
- 1.4 Information or Data Analysis
- 1.5 Market Formulation & Validation
- 1.6 Market Model
 - 1.6.1 PARENT MARKET STUDY
 - 1.6.1.1 Comparison of 3D cell culture techniques
 - 1.6.2 QFD modeling for market share assessment, for organoids & spheroids
 - 1.6.3 Market study, by type
 - 1.6.4 Market study, by application
 - 1.6.5 Market study, by end-use
 - 1.6.6 Market study, by region
 - 1.6.7 Commodity flow analysis
- 1.7 Global Market: CAGR Calculation
- 1.8 Objectives
 - 1.8.1 Objective 1:
 - 1.8.2 Objective 2:

CHAPTER 2 MARKET DEFINITIONS

CHAPTER 3 EXECUTIVE SUMMARY

- 3.1 Market Outlook
- 3.2 Segment Outlook
- 3.3 Competitive Insights
- 3.4 Market Summary

CHAPTER 4 MARKET VARIABLES, TRENDS & SCOPE

- 4.1 Market Trends & Outlook
- 4.2 Market Segmentation & Scope
- 4.3 Market Lineage Outlook
 - 4.3.1 Parent market outlook
 - 4.3.1.1 3D cell culture market vs organoids & spheroids market

4.3.2 RELATED/ANCILLARY MARKET OUTLOOK

4.3.2.1 Regenerative medicine market

4.3.2.2 Stem cell market

4.4 Technology Overview

4.4.1 Technology timeline

4.5 Penetration and Growth Prospect Mapping for Application, 2019 (USD Million)

4.6 Regulatory Guidelines

4.6.1 Guidelines for future collection of tissues

4.6.2 Guidelines for communication and sharing

4.7 Case Studies

4.7.1 Rapid development and analysis of 3D spheroid microtissues from multiple cancer cell lines with CellCarrier Spheroid ULA microplates, high content imaging, and reagents from PerkinElmer

4.7.1.1 Overview

4.7.1.2 Microplates & cell line used

4.7.1.3 Imaging & spheroid size analysis

4.7.1.4 ATPlite 3D assays for toxicity analysis

4.7.2 3D Live Cell Organoid HCS Assay Development & Validation

4.7.3 Impact of COvid-19 on Organoids & Spheroids Market

4.7.3.1 Organoids in virology

4.7.3.2 Organoids to reveal the effect of COVID-19 virus infects human intestinal cells

4.7.3.3 Mini-organs in organoid research

CHAPTER 5 INDUSTRY OUTLOOK

5.1 Market Dynamics

5.1.1 Market driver analysis

5.1.1.1 Technological advancements in the 3D spheroid technology

5.1.1.2 High adoption of organoids & spheroids in drug discovery

5.1.1.3 Rising demand for tissue engineering & organ transplantation

5.1.2 Market restraint analysis

5.1.2.1 Challenges associated with 3D cell culturing

5.1.2.2 Ethical issues associated with organoid & spheroid cultures

5.1.2.2.1 Extent of maturation

5.1.2.2.2 Chimera research

5.1.2.2.3 Use of gene-editing technologies

5.1.3 Market opportunity analysis

5.1.3.1 Potential of Organoids & Spheroids to be used as models for drug screening and analysis of human disorders

5.1.4 Market Challenge analysis

5.1.4.1 Technological challenges associated with the reproducibility of organoids & spheroids

5.2 Business Environment Analysis

5.2.1 SWOT Analysis; By factor (Political & Legal, Economic and Technological)

5.2.2 Porter's Five Forces Analysis

CHAPTER 6 COMPETITIVE ANALYSIS

6.1 Strategy Framework

6.2 Market Participant Categorization

6.3 Competitive Dashboard Analysis

6.4 Major Deals & Strategic Alliances Analysis

6.4.1 Mergers and acquisitions

6.4.2 Partnerships

6.4.3 Agreements

6.4.4 Synergies, Collaborations, and other initiatives

6.5 Market Entry Strategies

CHAPTER 7 TYPE BUSINESS ANALYSIS

7.1 Organoids & Spheroids Market: Type Movement Analysis

7.2 Organoids

7.2.1 Organoids market estimates and forecast, 2016 - 2027

7.2.2 Organoids by type

7.2.2.1 Neural Organoids

7.2.2.1.1 Neural organoids market estimates and forecast, 2016 - 2027

7.2.2.2 Hepatic Organoids

7.2.2.2.1 Hepatic organoids market estimates and forecast, 2016 - 2027

7.2.2.3 Intestinal Organoids

7.2.2.3.1 Intestinal organoids market estimates and forecast, 2016 - 2027

7.2.2.4 Other Organoids

7.2.2.4.1 Other organoids market estimates and forecast, 2016 - 2027

7.2.3 Organoids market, by the method

7.2.3.1 General Submerged Method for Organoid Culture

7.2.3.1.1 General Submerged Method for Organoid Culture market estimates and forecast, 2016 - 2027

7.2.3.2 Crypt Organoid Culture Techniques

7.2.3.2.1 Crypt Organoid Culture Techniques market estimates and forecast, 2016 -

2027

7.2.3.3 Air Liquid Interface (ALI) Method for Organoid Culture

7.2.3.3.1 ALI Method for Organoid Culture market estimates and forecast, 2016 -

2027

7.2.3.4 Clonal Organoids from Lgr5+ Cells

7.2.3.4.1 Clonal Organoids from Lgr5+ Cells market estimates and forecast, 2016 -

2027

7.2.3.5 Brain and Retina Organoid Formation Protocol

7.2.3.5.1 Brain and Retina Organoid Formation Protocol market estimates and
forecast, 2016 - 2027

7.2.4 Organoids market, by source

7.2.4.1 Primary tissues

7.2.4.1.1 Primary tissues market estimates and forecast, 2016 - 2027

7.2.4.2 Stem cells

7.2.4.2.1 Stem cells market estimates and forecast, 2016 - 2027

7.3 Spheroids

7.3.1 Spheroids market estimates and forecast, 2016 - 2027

7.3.2 Spheroids by type

7.3.2.1 Multicellular tumor spheroids (MCTS)

7.3.2.1.1 MCTS market estimates and forecast, 2016 - 2027

7.3.2.2 Neurospheres

7.3.2.2.1 Neurospheres market estimates and forecast, 2016 - 2027

7.3.2.3 Mammospheres

7.3.2.3.1 Mammospheres market estimates and forecast, 2016 - 2027

7.3.2.4 Hepatospheres

7.3.2.4.1 Hepatospheres market estimates and forecast, 2016 - 2027

7.3.2.5 Embryoid bodies

7.3.2.5.1 Embryoid bodies market estimates and forecast, 2016 - 2027

7.3.3 Organoids market, by the method

7.3.3.1 Micropatterned Plates

7.3.3.1.1 Micropatterned Plates market estimates and forecast, 2016 - 2027

7.3.3.2 Low Cell Attachment Plates

7.3.3.2.1 Low Cell Attachment Plates market estimates and forecast, 2016 - 2027

7.3.3.3 Hanging Drop Method

7.3.3.3.1 Hanging Drop Method for spheroid Culture market estimates and forecast,
2016 - 2027

7.3.3.4 Other methods

7.3.3.4.1 Other methods for spheroid culture market estimates and forecast, 2016 -
2027

7.3.4 Spheroids market, by source

7.3.4.1 Cell line

7.3.4.1.1 Cell line market estimates and forecast, 2016 - 2027

7.3.4.2 Primary cell

7.3.4.2.1 Primary cell market estimates and forecast, 2016 - 2027

7.3.4.3 iPSCs Derived Cells

7.3.4.3.1 iPSCs Derived Cells market estimates and forecast, 2016 - 2027

CHAPTER 8 APPLICATION BUSINESS ANALYSIS

8.1 Organoids & Spheroids Market: Application Movement Analysis

8.2 Developmental Biology

8.2.1 Developmental BIOLOGY market estimates and forecast, 2016 - 2027

8.3 Personalized Medicine

8.3.1 Personalized medicine market estimates and forecast, 2016 - 2027

8.4 Regenerative Medicine

8.4.1 Regenerative medicine market estimates and forecast, 2016 - 2027

8.5 Disease Pathology Studies

8.5.1 Disease pathology studies market estimates and forecast, 2016 - 2027

8.6 Drug Toxicity & Efficacy Testing

8.6.1 Drug toxicity & efficacy testing market estimates and forecast, 2016 - 2027

CHAPTER 9 END-USE BUSINESS ANALYSIS

9.1 Organoids & Spheroids Market: End-use Movement Analysis

9.2 Biotechnology and Pharmaceutical Industries

9.2.1 Biotechnology and pharmaceutical industries market estimates and forecast, 2016 - 2027

9.3 Academic & Research Institutes

9.3.1 Academic & research institutes market estimates and forecast, 2016 - 2027

9.4 Hospitals and diagnostic centers

9.4.1 Hospitals and diagnostic centers market estimates and forecast, 2016 - 2027

CHAPTER 10 REGIONAL BUSINESS ANALYSIS

10.1 Organoids & Spheroids Market: Regional Movement Analysis

10.2 North America

10.2.1 North America market estimates and forecast, 2016 - 2027

10.2.2 The U.S.

- 10.2.2.1 The U.S. market estimates and forecast, 2016 - 2027
- 10.2.2.2 The U.S. market estimates and forecast, by type, 2016 - 2027
- 10.2.2.3 The U.S. market estimates and forecast, by application, 2016 - 2027
- 10.2.2.4 The U.S. market estimates and forecast, by end-use, 2016 - 2027
- 10.2.3 Canada
 - 10.2.3.1 Canada market estimates and forecast, 2016 - 2027
 - 10.2.3.2 Canada market estimates and forecast, by type, 2016 - 2027
 - 10.2.3.3 Canada market estimates and forecast, by application, 2016 - 2027
 - 10.2.3.4 Canada market estimates and forecast, by end-use, 2016 - 2027
- 10.3 Europe
 - 10.3.1 Europe market estimates and forecast, 2016 - 2027
 - 10.3.2 Germany
 - 10.3.2.1 Germany market estimates and forecast, 2016 - 2027
 - 10.3.2.2 Germany market estimates and forecast, by type, 2016 - 2027
 - 10.3.2.3 Germany market estimates and forecast, by application, 2016 - 2027
 - 10.3.2.4 Germany market estimates and forecast, by end-use, 2016 - 2027
 - 10.3.3 France
 - 10.3.3.1 France market estimates and forecast, 2016 - 2027
 - 10.3.3.2 France market estimates and forecast, by type, 2016 - 2027
 - 10.3.3.3 France market estimates and forecast, by Application, 2016 - 2027
 - 10.3.3.4 France market estimates and forecast, by end-use, 2016 - 2027
 - 10.3.4 The U.K.
 - 10.3.4.1 The U.K. market estimates and forecast, 2016 - 2027
 - 10.3.4.2 The U.K. market estimates and forecast, by type, 2016 - 2027
 - 10.3.4.3 The U.K. market estimates and forecast, by application, 2016 - 2027
 - 10.3.4.4 The U.K. market estimates and forecast, by end-use, 2016 - 2027
 - 10.3.5 Italy
 - 10.3.5.1 Italy market estimates and forecast, 2016 - 2027
 - 10.3.5.2 Italy market estimates and forecast, by type, 2016 - 2027
 - 10.3.5.3 Italy market estimates and forecast, by Application, 2016 - 2027
 - 10.3.5.4 Italy market estimates and forecast, by end-use, 2016 - 2027
 - 10.3.6 Spain
 - 10.3.6.1 Spain market estimates and forecast, 2016 - 2027
 - 10.3.6.2 Spain market estimates and forecast, by type, 2016 - 2027
 - 10.3.6.3 Spain market estimates and forecast, by application, 2016 - 2027
 - 10.3.6.4 Spain market estimates and forecast, by end-use, 2016 - 2027
- 10.4 Asia Pacific
 - 10.4.1 Asia Pacific market estimates and forecast, 2016 - 2027
 - 10.4.2 Japan

- 10.4.2.1 Japan market estimates and forecast, 2016 - 2027
- 10.4.2.2 Japan market estimates and forecast, by type, 2016 - 2027
- 10.4.2.3 Japan market estimates and forecast, by application, 2016 - 2027
- 10.4.2.4 Japan market estimates and forecast, by end-use, 2016 - 2027
- 10.4.3 China
 - 10.4.3.1 China market estimates and forecast, 2016 - 2027
 - 10.4.3.2 China market estimates and forecast, by type, 2016 - 2027
 - 10.4.3.3 China market estimates and forecast, by application, 2016 - 2027
 - 10.4.3.4 China market estimates and forecast, by end-use, 2016 - 2027
- 10.4.4 India
 - 10.4.4.1 India market estimates and forecast, 2016 - 2027
 - 10.4.4.2 India market estimates and forecast, by type, 2016 - 2027
 - 10.4.4.3 India market estimates and forecast, by application, 2016 - 2027
 - 10.4.4.4 India market estimates and forecast, by end-use, 2016 - 2027
- 10.5 Latin America
 - 10.5.1 Latin America market estimates and forecast, 2016 - 2027
 - 10.5.2 Brazil
 - 10.5.2.1 Brazil market estimates and forecast, 2016 - 2027
 - 10.5.2.2 Brazil market estimates and forecast, by type, 2016 - 2027
 - 10.5.2.3 Brazil market estimates and forecast, by application, 2016 - 2027
 - 10.5.2.4 Brazil market estimates and forecast, by end-use, 2016 - 2027
 - 10.5.3 Mexico
 - 10.5.3.1 Mexico market estimates and forecast, 2016 - 2027
 - 10.5.3.2 Mexico market estimates and forecast, by type, 2016 - 2027
 - 10.5.3.3 Mexico market estimates and forecast, by application, 2016 - 2027
 - 10.5.3.4 Mexico market estimates and forecast, by end-use, 2016 - 2027
- 10.6 MEA
 - 10.6.1 MEA market estimates and forecast, 2016 - 2027
 - 10.6.2 South Africa
 - 10.6.2.1 South Africa market estimates and forecast, 2016 - 2027
 - 10.6.2.2 South Africa market estimates and forecast, by type, 2016 - 2027
 - 10.6.2.3 South Africa market estimates and forecast, by application, 2016 - 2027
 - 10.6.2.4 South Africa market estimates and forecast, by end-use, 2016 - 2027
 - 10.6.3 Saudi Arabia
 - 10.6.3.1 Saudi Arabia market estimates and forecast, 2016 - 2027
 - 10.6.3.2 Saudi Arabia market estimates and forecast, by type, 2016 - 2027
 - 10.6.3.3 Saudi Arabia market estimates and forecast, by application, 2016 - 2027
 - 10.6.3.4 Saudi Arabia market estimates and forecast, by end-use, 2016 - 2027

CHAPTER 11 COMPETITIVE LANDSCAPE

11.1 Company Profiles

11.1.1 Thermo Fisher Scientific, Inc.

- 11.1.1.1 Company overview
- 11.1.1.2 Financial Performance
- 11.1.1.3 Product benchmarking
- 11.1.1.4 Strategic initiatives

11.1.2 Merck KGaA

- 11.1.2.1 Company overview
- 11.1.2.2 Financial Performance
- 11.1.2.3 Product benchmarking
- 11.1.2.4 Strategic initiatives

11.1.3 Lonza

- 11.1.3.1 Company overview
- 11.1.3.2 Financial Performance
- 11.1.3.3 Product benchmarking
- 11.1.3.4 Strategic initiatives

11.1.4 3D Biomatrix

- 11.1.4.1 Company overview
- 11.1.4.2 Financial Performance
- 11.1.4.3 Product benchmarking
- 11.1.4.4 Strategic initiatives

11.1.5 3D Biotek LLC

- 11.1.5.1 Company overview
- 11.1.5.2 Financial Performance
- 11.1.5.3 Product benchmarking
- 11.1.5.4 Strategic initiatives

11.1.6 AMS Biotechnology (Europe) Limited

- 11.1.6.1 Company overview
- 11.1.6.2 Financial Performance
- 11.1.6.3 Product benchmarking
- 11.1.6.4 Strategic initiatives

11.1.7 Cellesce Ltd

- 11.1.7.1 Company overview
- 11.1.7.2 Financial Performance
- 11.1.7.3 Product benchmarking
- 11.1.7.4 Strategic initiatives

11.1.8 Corning Incorporated

- 11.1.8.1 Company overview
- 11.1.8.2 Financial Performance
- 11.1.8.3 Product benchmarking
- 11.1.8.4 Strategic initiatives
- 11.1.9 Greiner Bio-One
 - 11.1.9.1 Company overview
 - 11.1.9.2 Financial Performance
 - 11.1.9.3 Product benchmarking
 - 11.1.9.4 Strategic initiatives
- 11.1.10 Hubrecht Organoid Technology (HUB)
 - 11.1.10.1 Company overview
 - 11.1.10.2 Financial Performance
 - 11.1.10.3 Product benchmarking
 - 11.1.10.4 Strategic initiatives
- 11.1.11 InSphero/Perkin Elmer
 - 11.1.11.1 Company overview
 - 11.1.11.2 Financial Performance
 - 11.1.11.3 Product benchmarking
 - 11.1.11.4 Strategic initiatives
- 11.1.12 Prellis Biologics
 - 11.1.12.1 Company overview
 - 11.1.12.2 Financial Performance
 - 11.1.12.3 Product benchmarking
 - 11.1.12.4 Strategic initiatives
- 11.1.13 STEMCELL Technologies Inc.
 - 11.1.13.1 Company overview
 - 11.1.13.2 Financial Performance
 - 11.1.13.3 Product benchmarking
 - 11.1.13.4 Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 Microplates used

Table 2 Cell lines used

Table 3 Kit specifications

Table 4 Summary of reports of drug screening with organoid methods

Table 5 Biochemical and growth factors used for the development of various organoid types

Table 6 North America organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 7 North America organoids market, by type, 2016 - 2027 (USD Million)

Table 8 North America organoids market, by method, 2016 - 2027 (USD Million)

Table 9 North America organoids market, by source, 2016 - 2027 (USD Million)

Table 10 North America spheroids market, by type, 2016 - 2027 (USD Million)

Table 11 North America spheroids market, by method, 2016 - 2027 (USD Million)

Table 12 North America spheroids market, by source, 2016 - 2027 (USD Million)

Table 13 North America organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 14 North America organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 15 The U.S. organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 16 The U.S. organoids market, by type, 2016 - 2027 (USD Million)

Table 17 The U.S. organoids market, by method, 2016 - 2027 (USD Million)

Table 18 The U.S. organoids market, by source, 2016 - 2027 (USD Million)

Table 19 The U.S. spheroids market, by type, 2016 - 2027 (USD Million)

Table 20 The U.S. spheroids market, by method, 2016 - 2027 (USD Million)

Table 21 The U.S. spheroids market, by source, 2016 - 2027 (USD Million)

Table 22 The U.S. organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 23 The U.S. organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 24 Canada organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 25 Canada organoids market, by type, 2016 - 2027 (USD Million)

Table 26 Canada organoids market, by method, 2016 - 2027 (USD Million)

Table 27 Canada organoids market, by source, 2016 - 2027 (USD Million)

Table 28 Canada spheroids market, by type, 2016 - 2027 (USD Million)

Table 29 Canada spheroids market, by method, 2016 - 2027 (USD Million)

Table 30 Canada spheroids market, by source, 2016 - 2027 (USD Million)

Table 31 Canada organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 32 Canada organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 33 Europe organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 34 Europe organoids market, by type, 2016 - 2027 (USD Million)

Table 35 Europe organoids market, by method, 2016 - 2027 (USD Million)

Table 36 Europe organoids market, by source, 2016 - 2027 (USD Million)

Table 37 Europe spheroids market, by type, 2016 - 2027 (USD Million)

Table 38 Europe spheroids market, by method, 2016 - 2027 (USD Million)

Table 39 Europe spheroids market, by source, 2016 - 2027 (USD Million)

Table 40 Europe organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 41 Europe organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 42 Germany organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 43 Germany organoids market, by type, 2016 - 2027 (USD Million)

Table 44 Germany organoids market, by method, 2016 - 2027 (USD Million)

Table 45 Germany organoids market, by source, 2016 - 2027 (USD Million)

Table 46 Germany spheroids market, by type, 2016 - 2027 (USD Million)

Table 47 Germany spheroids market, by method, 2016 - 2027 (USD Million)

Table 48 Germany spheroids market, by source, 2016 - 2027 (USD Million)

Table 49 Germany organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 50 Germany organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 51 France organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 52 France organoids market, by type, 2016 - 2027 (USD Million)

Table 53 France organoids market, by method, 2016 - 2027 (USD Million)

Table 54 France organoids market, by source, 2016 - 2027 (USD Million)

Table 55 France spheroids market, by type, 2016 - 2027 (USD Million)

Table 56 France spheroids market, by method, 2016 - 2027 (USD Million)

Table 57 France spheroids market, by source, 2016 - 2027 (USD Million)

Table 58 France organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 59 France organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 60 The U.K. organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 61 The U.K. organoids market, by type, 2016 - 2027 (USD Million)

Table 62 The U.K. organoids market, by method, 2016 - 2027 (USD Million)

Table 63 The U.K. organoids market, by source, 2016 - 2027 (USD Million)

- Table 64 The U.K. spheroids market, by type, 2016 - 2027 (USD Million)
- Table 65 The U.K. spheroids market, by method, 2016 - 2027 (USD Million)
- Table 66 The U.K. spheroids market, by source, 2016 - 2027 (USD Million)
- Table 67 The U.K. organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 68 The U.K. organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 69 Italy organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 70 Italy organoids market, by type, 2016 - 2027 (USD Million)
- Table 71 Italy organoids market, by method, 2016 - 2027 (USD Million)
- Table 72 Italy organoids market, by source, 2016 - 2027 (USD Million)
- Table 73 Italy spheroids market, by type, 2016 - 2027 (USD Million)
- Table 74 Italy spheroids market, by method, 2016 - 2027 (USD Million)
- Table 75 Italy spheroids market, by source, 2016 - 2027 (USD Million)
- Table 76 Italy organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 77 Italy organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 78 Spain organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 79 Spain organoids market, by type, 2016 - 2027 (USD Million)
- Table 80 Spain organoids market, by method, 2016 - 2027 (USD Million)
- Table 81 Spain organoids market, by source, 2016 - 2027 (USD Million)
- Table 82 Spain spheroids market, by type, 2016 - 2027 (USD Million)
- Table 83 Spain spheroids market, by method, 2016 - 2027 (USD Million)
- Table 84 Spain spheroids market, by source, 2016 - 2027 (USD Million)
- Table 85 Spain organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 86 Spain organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 87 Asia Pacific organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 88 Asia Pacific organoids market, by type, 2016 - 2027 (USD Million)
- Table 89 Asia Pacific organoids market, by method, 2016 - 2027 (USD Million)
- Table 90 Asia Pacific organoids market, by source, 2016 - 2027 (USD Million)
- Table 91 Asia Pacific spheroids market, by type, 2016 - 2027 (USD Million)
- Table 92 Asia Pacific spheroids market, by method, 2016 - 2027 (USD Million)
- Table 93 Asia Pacific spheroids market, by source, 2016 - 2027 (USD Million)
- Table 94 Asia Pacific organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 95 Asia Pacific organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 96 Japan organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 97 Japan organoids market, by type, 2016 - 2027 (USD Million)

- Table 98 Japan organoids market, by method, 2016 - 2027 (USD Million)
- Table 99 Japan organoids market, by source, 2016 - 2027 (USD Million)
- Table 100 Japan spheroids market, by type, 2016 - 2027 (USD Million)
- Table 101 Japan spheroids market, by method, 2016 - 2027 (USD Million)
- Table 102 Japan spheroids market, by source, 2016 - 2027 (USD Million)
- Table 103 Japan organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 104 Japan organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 105 China organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 106 China organoids market, by type, 2016 - 2027 (USD Million)
- Table 107 China organoids market, by method, 2016 - 2027 (USD Million)
- Table 108 China organoids market, by source, 2016 - 2027 (USD Million)
- Table 109 China spheroids market, by type, 2016 - 2027 (USD Million)
- Table 110 China spheroids market, by method, 2016 - 2027 (USD Million)
- Table 111 China spheroids market, by source, 2016 - 2027 (USD Million)
- Table 112 China organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 113 China organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 114 India organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 115 India organoids market, by type, 2016 - 2027 (USD Million)
- Table 116 India organoids market, by method, 2016 - 2027 (USD Million)
- Table 117 India organoids market, by source, 2016 - 2027 (USD Million)
- Table 118 India spheroids market, by type, 2016 - 2027 (USD Million)
- Table 119 India spheroids market, by method, 2016 - 2027 (USD Million)
- Table 120 India spheroids market, by source, 2016 - 2027 (USD Million)
- Table 121 India organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 122 India organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)
- Table 123 Latin America organoids & spheroids market, by type, 2016 - 2027 (USD Million)
- Table 124 Latin America organoids market, by type, 2016 - 2027 (USD Million)
- Table 125 Latin America organoids market, by method, 2016 - 2027 (USD Million)
- Table 126 Latin America organoids market, by source, 2016 - 2027 (USD Million)
- Table 127 Latin America spheroids market, by type, 2016 - 2027 (USD Million)
- Table 128 Latin America spheroids market, by method, 2016 - 2027 (USD Million)
- Table 129 Latin America spheroids market, by source, 2016 - 2027 (USD Million)
- Table 130 Latin America organoids & spheroids market, by application, 2016 - 2027 (USD Million)
- Table 131 Latin America organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Million)

Table 132 Brazil organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 133 Brazil organoids market, by type, 2016 - 2027 (USD Million)

Table 134 Brazil organoids market, by method, 2016 - 2027 (USD Million)

Table 135 Brazil organoids market, by source, 2016 - 2027 (USD Million)

Table 136 Brazil spheroids market, by type, 2016 - 2027 (USD Million)

Table 137 Brazil spheroids market, by method, 2016 - 2027 (USD Million)

Table 138 Brazil spheroids market, by source, 2016 - 2027 (USD Million)

Table 139 Brazil organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 140 Brazil organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 141 Mexico organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 142 Mexico organoids market, by type, 2016 - 2027 (USD Million)

Table 143 Mexico organoids market, by method, 2016 - 2027 (USD Million)

Table 144 Mexico organoids market, by source, 2016 - 2027 (USD Million)

Table 145 Mexico spheroids market, by type, 2016 - 2027 (USD Million)

Table 146 Mexico spheroids market, by method, 2016 - 2027 (USD Million)

Table 147 Mexico spheroids market, by source, 2016 - 2027 (USD Million)

Table 148 Mexico organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 149 Mexico organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 150 MEA organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 151 MEA organoids market, by type, 2016 - 2027 (USD Million)

Table 152 MEA organoids market, by method, 2016 - 2027 (USD Million)

Table 153 MEA organoids market, by source, 2016 - 2027 (USD Million)

Table 154 MEA spheroids market, by type, 2016 - 2027 (USD Million)

Table 155 MEA spheroids market, by method, 2016 - 2027 (USD Million)

Table 156 MEA spheroids market, by source, 2016 - 2027 (USD Million)

Table 157 MEA organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 158 MEA organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 159 South Africa organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 160 South Africa organoids market, by type, 2016 - 2027 (USD Million)

Table 161 South Africa organoids market, by method, 2016 - 2027 (USD Million)

Table 162 South Africa organoids market, by source, 2016 - 2027 (USD Million)

Table 163 South Africa spheroids market, by type, 2016 - 2027 (USD Million)

Table 164 South Africa spheroids market, by method, 2016 - 2027 (USD Million)

Table 165 South Africa spheroids market, by source, 2016 - 2027 (USD Million)

Table 166 South Africa organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 167 South Africa organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

Table 168 Saudi Arabia organoids & spheroids market, by type, 2016 - 2027 (USD Million)

Table 169 Saudi Arabia organoids market, by type, 2016 - 2027 (USD Million)

Table 170 Saudi Arabia organoids market, by method, 2016 - 2027 (USD Million)

Table 171 Saudi Arabia organoids market, by source, 2016 - 2027 (USD Million)

Table 172 Saudi Arabia spheroids market, by type, 2016 - 2027 (USD Million)

Table 173 Saudi Arabia spheroids market, by method, 2016 - 2027 (USD Million)

Table 174 Saudi Arabia spheroids market, by source, 2016 - 2027 (USD Million)

Table 175 Saudi Arabia organoids & spheroids market, by application, 2016 - 2027 (USD Million)

Table 176 Saudi Arabia organoids & spheroids market, by end-use, 2016 - 2027 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Information procurement
- Fig. 3 Industry pyramid analysis
- Fig. 4 Industry pyramid analysis
- Fig. 5 Market research approaches
- Fig. 6 Value-chain-based sizing & forecasting
- Fig. 7 Industry pyramid analysis
- Fig. 8 Industry pyramid analysis
- Fig. 9 Market formulation & validation
- Fig. 10 Comparison of 3D cell culture techniques
- Fig. 11 QFD modeling for market share assessment, for organoids & spheroids
- Fig. 12 Analysis of the adoption and usage of types
- Fig. 13 Analysis for the adoption and usage of organoids by type
- Fig. 14 Major acceleration areas for the realization of organoid medicine
- Fig. 15 Comparison of state-of-the-art organoid centers
- Fig. 16 Commodity flow analysis
- Fig. 17 Organoids & spheroids market snapshot
- Fig. 18 Market trends & outlook
- Fig. 19 Organoids & spheroids segmentation
- Fig. 20 3D cell culture market vs organoids & spheroids market
- Fig. 21 Timeline for the development of patient-derived tumor organoids (PDTO)
- Fig. 22 Penetration and growth prospect mapping
- Fig. 23 Organoids & spheroids market driver impact
- Fig. 24 Integration of organoid & spheroid culturing into drug discovery
- Fig. 25 Organoids & spheroids market restraint impact
- Fig. 26 Organoids & spheroids market opportunity impact
- Fig. 27 Organoids & spheroids market challenge impact
- Fig. 28 SWOT Analysis, By Factor (Political & legal Economic and technological)
- Fig. 29 Porter's Five Forces Analysis
- Fig. 30 Strategy framework
- Fig. 31 Market participant categorization
- Fig. 32 Competitive dashboard analysis
- Fig. 33 Strategy mapping
- Fig. 34 Organoids & spheroids market: Type outlook and key takeaways
- Fig. 35 Organoids & Spheroids market: Type Movement Analysis

- Fig. 36 Organoids market estimates and forecast, 2016 - 2027
- Fig. 37 Neural organoids market estimates and forecast, 2016 - 2027
- Fig. 38 Hepatic organoids market estimates and forecast, 2016 - 2027
- Fig. 39 Intestinal organoids market estimates and forecast, 2016 - 2027
- Fig. 40 Other organoids market estimates and forecast, 2016 - 2027
- Fig. 41 General submerged method for organoid culture market estimates and forecast, 2016 - 2027
- Fig. 42 Crypt organoid culture techniques market estimates and forecast, 2016 - 2027
- Fig. 43 ALI method for organoid culture market estimates and forecast, 2016 - 2027
- Fig. 44 Clonal Organoids from Lgr5+ Cells market estimates and forecast, 2016 - 2027
- Fig. 45 Brain and Retina Organoid Formation Protocol market estimates and forecast, 2016 - 2027
- Fig. 46 Primary tissues market estimates and forecast, 2016 - 2027
- Fig. 47 Stem cells market estimates and forecast, 2016 - 2027
- Fig. 48 Spheroids market estimates and forecast, 2016 - 2027
- Fig. 49 MCTS market estimates and forecast, 2016 - 2027
- Fig. 50 Neurospheres market estimates and forecast, 2016 - 2027
- Fig. 51 Mammospheres market estimates and forecast, 2016 - 2027
- Fig. 52 Hepatospheres market estimates and forecast, 2016 - 2027
- Fig. 53 Embryoid bodies market estimates and forecast, 2016 - 2027
- Fig. 54 Micropatterned plates market estimates and forecast, 2016 - 2027
- Fig. 55 Low cell attachment plates market estimates and forecast, 2016 - 2027
- Fig. 56 Hanging drop method for spheroid culture market estimates and forecast, 2016 - 2027
- Fig. 57 Other methods for spheroid culture market estimates and forecast, 2016 - 2027
- Fig. 58 Cell line market estimates and forecast, 2016 - 2027
- Fig. 59 Primary cell market estimates and forecast, 2016 - 2027
- Fig. 60 iPSCs derived cells market estimates and forecast, 2016 - 2027
- Fig. 61 Organoids & spheroids market: Application outlook and key takeaways
- Fig. 62 Organoids & spheroids market: Application movement analysis
- Fig. 63 Applications of organoids in developmental biology
- Fig. 64 Organoid models: Key milestones achieved in the field of developmental biology
- Fig. 65 Developmental biology market estimates and forecast, 2016 - 2027
- Fig. 66 Personalized medicine market estimates and forecast, 2016 - 2027
- Fig. 67 Regenerative medicine market estimates and forecast, 2016 - 2027
- Fig. 68 Disease pathology studies market estimates and forecast, 2016 - 2027
- Fig. 69 Drug toxicity & efficacy testing market estimates and forecast, 2016 - 2027
- Fig. 70 Organoids & spheroids market: End-use outlook and key takeaways
- Fig. 71 Organoids & spheroids market: End-use movement analysis

Fig. 72 Biotechnology and pharmaceutical industries market estimates and forecast, 2016 - 2027

Fig. 73 Academic & research institutes market estimates and forecast, 2016 - 2027

Fig. 74 Hospitals and diagnostic centers market estimates and forecast, 2016 - 2027

Fig. 75 Organoids & spheroids market: Regional outlook and key takeaways

Fig. 77 Organoids & spheroids market: Regional movement analysis

Fig. 78 North America

Fig. 79 North America. market estimates and forecast, 2016 - 2027

Fig. 80 The U.S.

Fig. 81 The U.S. market estimates and forecast, 2016 - 2027

Fig. 82 Canada

Fig. 83 Canada market estimates and forecast, 2016 - 2027

Fig. 84 Europe

Fig. 85 Europe market estimates and forecast, 2016 - 2027

Fig. 86 Germany

Fig. 87 Germany market estimates and forecast, 2016 - 2027

Fig. 88 France

Fig. 89 France market estimates and forecast, 2016 - 2027

Fig. 90 The U.K.

Fig. 91 The U.K. market estimates and forecast, 2016 - 2027

Fig. 92 Italy

Fig. 93 Italy market estimates and forecast, 2016 - 2027

Fig. 94 Spain

Fig. 95 Spain market estimates and forecast, 2016 - 2027

Fig. 96 Asia Pacific

Fig. 97 Asia Pacific. market estimates and forecast, 2016 - 2027

Fig. 98 Japan

Fig. 99 Japan market estimates and forecast, 2016 - 2027

Fig. 100 China

Fig. 101 China market estimates and forecast, 2016 - 2027

Fig. 102 India

Fig. 103 India market estimates and forecast, 2016 - 2027

Fig. 104 Latin America

Fig. 105 Latin America market estimates and forecast, 2016 - 2027

Fig. 106 Brazil

Fig. 107 Brazil market estimates and forecast, 2016 - 2027

Fig. 108 Mexico

Fig. 109 Mexico market estimates and forecast, 2016 - 2027

Fig. 110 MEA

Fig. 111 MEA market estimates and forecast, 2016 - 2027

Fig. 112 South Africa

Fig. 113 South Africa market estimates and forecast, 2016 - 2027

Fig. 114 Saudi Arabia

Fig. 115 Saudi Arabia market estimates and forecast, 2016 - 2027

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