

**Organoids and Spheroids Market Size, Trends, Analysis, and Outlook Organoids By Type (Neural Organoids, Hepatic Organoids, Intestinal Organoids, Others), Organoids By Method (General Submerged Method for Organoid Culture, Crypt Organoid Culture Techniques, Air Liquid Interface (ALI) Method for Organoid Culture, Clonal Organoids from Lgr5+ Cells, Brain and Retina Organoid Formation Protocol, Organoids By Source (Primary Tissues, Stem Cells), Spheroids By Type (Multicellular tumor spheroids (MCTS), Neurospheres, Mammospheres, Hepatospheres, Embryoid bodies), Spheroids By Method (Micropatterned Plates, Low Cell Attachment Plates, Hanging Drop Method, Others), Spheroids By Source (Cell Line, Primary Cell, iPSCs Derived Cells), By Application (Developmental Biology, Personalized Medicine, Regenerative Medicine, Disease Pathology Studies, Drug Toxicity & Efficacy Testing), By End-user (Biotechnology and pharmaceutical industries, Academic & Research Institutes, Hospitals and diagnostic centers), by Region, Country, Segment, and Companies, 2024-2030**

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## Abstracts

The global Organoids and Spheroids market size is poised to register 21.05% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Organoids and Spheroids market across Organoids By Type (Neural Organoids, Hepatic Organoids, Intestinal Organoids, Others), Organoids By Method (General Submerged Method for Organoid Culture, Crypt Organoid Culture Techniques, Air Liquid Interface (ALI) Method for Organoid Culture, Clonal Organoids from Lgr5+ Cells, Brain and Retina Organoid Formation Protocol, Organoids By Source (Primary Tissues, Stem Cells), Spheroids By Type (Multicellular tumor spheroids (MCTS), Neurospheres, Mammospheres, Hepatospheres, Embryoid bodies), Spheroids By Method (Micropatterned Plates, Low Cell Attachment Plates, Hanging Drop Method, Others), Spheroids By Source (Cell Line, Primary Cell, iPSCs Derived Cells), By Application (Developmental Biology, Personalized Medicine, Regenerative Medicine, Disease Pathology Studies, Drug Toxicity & Efficacy Testing), By End-user (Biotechnology and pharmaceutical industries, Academic & Research Institutes, Hospitals and diagnostic centers).

The Organoids and Spheroids Market is experiencing growth driven by the increasing adoption of three-dimensional (3D) cell culture models and organotypic cultures in drug discovery, toxicology testing, and regenerative medicine research, and the advancements in tissue engineering, stem cell technology, and biomaterials for the development of complex multicellular structures resembling native tissues and organs. Organoids and spheroids are self-assembled 3D cell aggregates derived from stem cells, primary cells, or cell lines that recapitulate the structural and functional properties of specific tissues or organs in vitro, allowing researchers to study organ development, disease pathogenesis, and drug response in physiologically relevant models. Key trends shaping its future include the development of organoid and spheroid culture protocols for various tissue types and disease models, the customization of organoid and spheroid platforms with microfluidic devices and bioreactors for perfusion culture and long-term maintenance, and the integration of organoid and spheroid models with high-content imaging and omics technologies for multi-dimensional analysis of cellular phenotypes and molecular signatures. Moreover, factors such as the increasing demand for predictive preclinical models and personalized medicine approaches, the advancements in genome editing and gene editing technologies for disease modeling and drug target validation, and the regulatory initiatives to promote the use of alternative methods and 3D cell culture models in drug safety and efficacy assessment are expected to drive market growth in 2024 and beyond.

## Organoids and Spheroids Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Organoids and Spheroids market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Organoids and Spheroids survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Organoids and Spheroids industry.

## Key market trends defining the global Organoids and Spheroids demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Organoids and Spheroids Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Organoids and Spheroids industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Organoids and Spheroids companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Organoids and Spheroids industry

Leading Organoids and Spheroids companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Organoids and Spheroids companies.

## Organoids and Spheroids Market Study- Strategic Analysis Review

The Organoids and Spheroids market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Organoids and Spheroids Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Organoids and Spheroids industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Organoids and Spheroids Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Organoids and Spheroids Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user

industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Organoids and Spheroids market segments. Similarly, Strong end-user demand is encouraging Canadian Organoids and Spheroids companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Organoids and Spheroids market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Organoids and Spheroids Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Organoids and Spheroids industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Organoids and Spheroids market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Organoids and Spheroids Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Organoids and Spheroids in Asia Pacific. In particular, China, India, and South East Asian Organoids and Spheroids markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Organoids and Spheroids Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Organoids and Spheroids Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Organoids and Spheroids market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Organoids and Spheroids.

Organoids and Spheroids Market Company Profiles

The global Organoids and Spheroids market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are 3D Biomatrix, 3D Biotek LLC, AMS Biotechnology Ltd, ATCC, Cellesce Ltd, Corning Inc, Greiner Bio-One, HubrechtOrganoid Technology, InSphero/Perkin Elmer, Kuraray, Lonza, Merck KGaA, Prellis Biologics, STEMCELL Technologies Inc, Thermo Fisher Scientific Inc

Recent Organoids and Spheroids Market Developments

The global Organoids and Spheroids market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Organoids and Spheroids Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

Organoids By Type

Neural Organoids

Hepatic Organoids

Intestinal Organoids

Others

Organoids By Method

General Submerged Method for Organoid Culture

Crypt Organoid Culture Techniques

Air Liquid Interface (ALI) Method for Organoid Culture

Clonal Organoids from Lgr5+ Cells

Brain and Retina Organoid Formation Protocol

Organoids By Source

Primary Tissues

Stem Cells

Spheroids By Type

Multicellular tumor spheroids (MCTS)

Neurospheres

Mammospheres

Hepatospheres

Embryoid bodies

Spheroids By Method

Micropatterned Plates

Low Cell Attachment Plates

Hanging Drop Method

Others

Spheroids By Source

Cell Line

Primary Cell

iPSCs Derived Cells



## By Application

Developmental Biology

Personalized Medicine

Regenerative Medicine

Disease Pathology Studies

Drug Toxicity & Efficacy Testing

## By End-user

Biotechnology and pharmaceutical industries

Academic & Research Institutes

Hospitals and diagnostic centers

## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

3D Biomatrix

3D Biotek LLC

AMS Biotechnology Ltd

ATCC

Cellesce Ltd

Corning Inc

Greiner Bio-One

HubrechtOrganoid Technology

InSphero/Perkin Elmer

Kuraray

Lonza

Merck KGaA

Prellis Biologics

STEMCELL Technologies Inc

Thermo Fisher Scientific Inc

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## **3D BIOMATRIX**

### **3D BIOTEK LLC**

AMS Biotechnology Ltd  
ATCC  
Cellesce Ltd  
Corning Inc  
Greiner Bio-One  
HubrechtOrganoid Technology  
InSphero/Perkin Elmer  
Kuraray  
Lonza  
Merck KGaA  
Prellis Biologics  
STEMCELL Technologies Inc  
Thermo Fisher Scientific Inc

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