

South America Organoids Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Stomach, Intestine, Liver, Pancreas, Lung, Brain, Kidney, and Others), Application (Developmental Biology, Disease Pathology of Infectious Disease, Regenerative Medicine, Drug Toxicity & Efficacy Testing, Drug Discovery & Personalized Medicine, and Others), and Source (Pluripotent Stem Cells and Organ-specific Adult Stem Cells)

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Abstracts

The South America organoids market is expected to grow from US\$ 160.44 million in 2023 to US\$ 433.69 million by 2028. It is estimated to record a CAGR of 22.0% from 2023 to 2028.

Growing Adoption of Personalized Drugs Fuels South America Organoids Market

Personalized medicine, also known as precision medicine, is a medical model that practices procedures or drugs tailored to the individual patient based on the projected response or risk of disease. The implementation of organoids to create personalized drug therapies provides exciting opportunities for improving patient care. In addition, pharmacists play an essential role in increasing the demand for personalized medicines as they proactively educate and create awareness about precision medicine. This demand has persuaded pharmaceutical research to develop more tailored treatments to make medicines safer and more effective.

Personalized cancer medicine is an approach to tailoring effective therapeutic strategies

for each patient according to a tumor's genomic characterization. There is an increasing demand for research in personalized tumor modeling to confirm the functional aspects of genomic drug response predictions in the preclinical setting. Numerous studies have highlighted the application of tumor organoids in personalized cancer medicine in terms of gene-drug association treatment, identification of new therapies, and prediction of patient outcomes.

Personalized cancer therapy applies specific treatments to each patient. Using personalized tumor models with similar characteristics to the original tumors may result in accurate predictions of drug responses in patients. Tumor organoid models have several advantages, such as conserving the molecular and cellular composition of the original tumor over pre-existing models. These advantages highlight the tremendous potential of tumor organoids in personalized cancer therapy, particularly in preclinical drug screening and predicting patient responses to selected treatment regimens.

South America Organoids Market Overview

The South America organoids market is segmented into Brazil, Argentina, and the Rest of South America. The market in the region is expected to grow due to the increasing number of cancer cases, growing government initiatives, and rising research and development for organoids.

South America Organoids Market Revenue and Forecast to 2028 (US\$ Million)

South America Organoids Market Segmentation

The South America organoids market is segmented on the basis of type, application, source, and country.

Based on type, the market is segmented into stomach, intestine, liver, pancreas, lung, brain, kidney, and others. The liver segment registered the largest market share in 2023.

Based on application, the South America organoids market is segmented into developmental biology disease, pathology of infectious disease, regenerative medicine, drug toxicity and efficacy testing, drug discovery and personalized medicine, and others. The developmental biology disease segment held the largest market share in 2023.

Based on source, the South America organoids market is bifurcated into pluripotent

stem cells and organ-specific adult stem cells. The pluripotent stem cells segment held a larger market share in 2023.

Based on country, the South America organoids market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the market share in 2023.

Merck kGaA; PeproTech, Inc.; STEMCELL Technologies Inc; and Thermo Fisher Scientific Inc are the leading companies operating in the organoids market in South America.

Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 South America Organoids Market – by Type
 - 1.3.2 South America Organoids Market – by Application
 - 1.3.3 South America Organoids Market – by Source
 - 1.3.4 South America Organoids Market – by Country

2. ORGANOIDS MARKET – KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. SOUTH AMERICA ORGANOIDS MARKET – MARKET LANDSCAPE

- 4.1 Overview
- 4.2 South America PEST Analysis
- 4.3 Expert's Opinion

5. SOUTH AMERICA ORGANOIDS MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Demand for Tumor Modeling and Biobanking
 - 5.1.2 Growing Adoption of Personalized Drugs
 - 5.1.3 Rising Focus on Developing Alternatives for Animal Testing Models
- 5.2 Market Restraints
 - 5.2.1 Issues Related to Incorporation of Organoids into Existing Workflows
 - 5.2.2 Dearth of Skilled Professionals
- 5.3 Market Opportunities
 - 5.3.1 Focus on Drug Discovery Activities
- 5.4 Future Trends
 - 5.4.1 Combining Organoid with Organ-On-A-Chip

5.5 Impact Analysis

6. ORGANOIDS MARKET – SOUTH AMERICA ANALYSIS

6.1 South America Organoids Market Revenue Forecast and Analysis

7. SOUTH AMERICA ORGANOIDS MARKET – REVENUE AND FORECAST TO 2028 – BY TYPE

7.1 Overview

7.2 South America Organoids Market Revenue Share, by Type (2022 and 2028)

7.3 Stomach

7.3.1 Overview

7.3.2 Stomach: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.4 Intestine

7.4.1 Overview

7.4.2 Intestine: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.5 Liver

7.5.1 Overview

7.5.2 Liver: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.6 Pancreas

7.6.1 Overview

7.6.2 Pancreas: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.7 Lung

7.7.1 Overview

7.7.2 Lung: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.8 Brain

7.8.1 Overview

7.8.2 Brain: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.9 Kidney

7.9.1 Overview

7.9.2 Kidney: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

7.10 Others

7.10.1 Overview

7.10.2 Others: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8. SOUTH AMERICA ORGANOIDS MARKET – REVENUE AND FORECAST TO 2028 – BY APPLICATION

8.1 Overview

8.2 South America Organoids Market Revenue Share, by Application (2022 and 2028)

8.3 Developmental Biology Disease

8.3.1 Overview

8.3.2 Developmental Biology Disease: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Pathology of Infectious Disease

8.4.1 Overview

8.4.2 Pathology of Infectious Disease: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8.5 Regenerative Medicine

8.5.1 Overview

8.5.2 Regenerative Medicine: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8.6 Drug Toxicity and Efficacy Testing

8.6.1 Overview

8.6.2 Drug Toxicity and Efficacy Testing: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8.7 Drug Discovery and Personalized Medicine

8.7.1 Overview

8.7.2 Drug Discovery and Personalized Medicine: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

8.8 Others

8.8.1 Overview

8.8.2 Others: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

9. SOUTH AMERICA ORGANIDS MARKET – REVENUE AND FORECAST TO 2028 – BY SOURCE

9.1 Overview

9.2 South America Organoids Market Revenue Share, by Source (2022 and 2028)

9.3 Pluripotent Stem Cells

9.3.1 Overview

9.3.2 Pluripotent Stem Cells: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Organ-specific Adult Stem Cells

9.4.1 Overview

9.4.2 Organ-specific Adult Stem Cells: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10. SOUTH AMERICA ORGANIDS MARKET – REVENUE AND FORECAST TO 2028 – COUNTRY ANALYSIS

10.1 South America Organoids Market

10.1.1 Overview

10.1.2 South & Central America: Organoids Market, by Country, 2022 & 2028 (%)

10.1.2.1 Brazil: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.1.1 Overview

10.1.2.1.2 Brazil: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.1.3 Brazil: Organoids Market, by Type, 2020–2028 (US\$ Million)

10.1.2.1.4 Brazil: Organoids Market, by Application, 2020-2028 (US\$ Million)

10.1.2.1.5 Brazil: Organoids Market, by Source 2020-2028 (US\$ Million)

10.1.2.2 Argentina: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.2.1 Overview

10.1.2.2.2 Argentina: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.2.3 Argentina: Organoids Market, by Type, 2020–2028 (US\$ Million)

10.1.2.2.4 Argentina: Organoids Market, by Application, 2020-2028 (US\$ Million)

10.1.2.2.5 Argentina: Organoids Market, by Source 2020-2028 (US\$ Million)

10.1.2.3 Rest of South America: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.3.1 Overview

10.1.2.3.2 Rest of South & Central America: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

10.1.2.3.3 Rest of South & Central America: Organoids Market, by Type, 2020–2028 (US\$ Million)

10.1.2.3.4 Rest of South & Central America: Organoids Market, by Application, 2020-2028 (US\$ Million)

10.1.2.3.5 Rest of South & Central America: Organoids Market, by Source 2020-2028 (US\$ Million)

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Growth Strategies Done by the Companies in the Market, (%)

11.3 Organic Developments

11.3.1 Overview

11.4 Inorganic Developments

11.4.1 Overview

12. COMPANY PROFILES

12.1 STEMCELL Technologies Inc.

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 PeproTech, Inc

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Thermo Fisher Scientific Inc

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 Merck KGaA

12.4.1 Key Facts

12.4.2 Business Description

12.4.3 Products and Services

12.4.4 Financial Overview

12.4.5 SWOT Analysis

12.4.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. Brazil Organoids Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 2. Brazil Organoids Market, by Application– Revenue and Forecast to 2028 (US\$ Million)

Table 3. Brazil Organoids Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 4. Argentina Organoids Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 5. Argentina Organoids Market, by Application– Revenue and Forecast to 2028 (US\$ Million)

Table 6. Argentina Organoids Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 7. Rest of South & Central America Organoids Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 8. Rest of South & Central America Organoids Market, by Application– Revenue and Forecast to 2028 (US\$ Million)

Table 9. Rest of South & Central America Organoids Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 10. Organic Developments Done by Companies

Table 11. Inorganic Developments Done by Companies

Table 12. Glossary of Terms

List Of Figures

LIST OF FIGURES

Figure 1. South America Organoids Market Segmentation

Figure 2. South America Organoids Market by Country

Figure 3. South America Organoids Market Overview

Figure 4. Liver is The Largest Share of Type Segment in South America Organoids Market

Figure 5. Brazil Expected to Show Remarkable Growth During Forecast Period

Figure 6. South America: PEST Analysis

Figure 7. South America Experts' Opinion

Figure 8. South America Organoids Market Impact Analysis of Drivers and Restraints

Figure 9. South America Organoids Market – Revenue Forecast and Analysis – 2020–2028

Figure 10. South America Organoids Market Revenue Share, by Type (2022 and 2028)

Figure 11. Stomach: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 12. Intestine: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 13. Liver: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 14. Pancreas: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 15. Lung: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 16. Brain: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 17. Kidney: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 18. Others: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 19. South America Organoids Market Revenue Share, by Application (2022 and 2028)

Figure 20. Developmental Biology Disease: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 21. Pathology of Infectious Disease: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 22. Regenerative Medicine: South America Organoids Market – Revenue and

Forecast to 2028 (US\$ Million)

Figure 23. Drug Toxicity and Efficacy Testing: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 24. Drug Discovery and Personalized Medicine: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 25. Others: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 26. South America Organoids Market Revenue Share, by Source (2022 and 2028)

Figure 27. Pluripotent Stem Cells: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 28. Organ-specific Adult Stem Cells: South America Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 29. South America Organoids Market, by Key Country – Revenue (2022) (US\$ Million)

Figure 30. South & Central America: Organoids Market, by Country, 2022 & 2028 (%)

Figure 31. Brazil: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 32. Argentina: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 33. Rest of South & Central America: Organoids Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 34. Growth Strategies Done by the Companies in the Market, (%)

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