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Global Organ-On-Chips (OOC) Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Organ-On-Chips (OOC) market size was valued at US$ 226 million in 2025 and is forecast to a readjusted size of US$ 1346 million by 2032 with a CAGR of 29.3% during review period.

An Organ-On-Chip (OOC) is a multi-channel 3-D microfluidic cell culture chip that simulates the activities, mechanics and physiological response of entire organs and organ systems, a type of artificial organ. It constitutes the subject matter of significant biomedical engineering research, more precisely in bio-MEMS. The convergence of labs-on-chips (LOCs) and cell biology has permitted the study of human physiology in an organ-specific context, introducing a novel model of in vitro multicellular human organisms. One day, they will perhaps abolish the need for animals in drug development and toxin testing. Organ-On-Chip technology not only incorporates multiple cell types but also involves engineering aspects, such as the guided spatial confinement of cells or the incorporation of sensors and microfluidic channels. The primary focus of Organ-On-Chip technology is the re-creation of three key aspects of human physiology: the multicellular vascular or epithelial interfaces of organs (for example, blood vessel networks, lung and gut), which function as barriers in tissues; the tissue-level organization of parenchymal cells (for example, liver, heart, skeletal muscle and tumours), which are responsible for the key functional properties of an organ; and the systematic interaction of multiple organs (for example, drug absorption, distribution, metabolism and elimination involving the gut, circulation, liver and kidney). In addition, the Blood-Brain Barrier is definitely more complex than a simple wall, controlling the passage of most solute that enters or leaves the brain. To address how this molecular sieve affects neural activity, some researchers have simulated the interaction between blood vessels and brain tissue on a series of interconnected "organ chips" when

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connected through this Blood-Brain Barrier (BBB) model. Endothelial cells, pericytes, astrocytes and neurons alter their gene expression. These technologies will achieve even more rapid development and application.The industry's gross profit margin is approximately 40–50%.

Key market drivers include the following:

Demand for improved drug R&D efficiency drives technology adoption

"Organ-on-a-chip" technology is an in vitro research platform that integrates microfluidics, biomaterials, cell culture, and tissue engineering to simulate the structures, cellular interactions, and dynamic physiological environments of human organs within a miniature device. Traditional 2D cell models struggle to replicate the complex responses of human tissues, while animal experiments face limitations regarding species differences, costs, timelines, and ethical concerns. Pharmaceutical companies need to identify the toxicity, absorption, metabolism, and efficacy of drug candidates at an earlier stage to reduce the risk of clinical trial failure. Organ-on-a-chip systems can simulate blood flow, mechanical stretching, fluid shear stress, and multicellular co-culture environments, providing experimental conditions that more closely mimic the human body for studying organs such as the liver, lungs, intestines, kidneys, and heart, as well as the blood-brain barrier; consequently, they are increasingly being incorporated into drug screening and safety assessment workflows.

Precision medicine and disease modeling expand application boundaries

Biopharmaceutical R&D is shifting from standardized drug development toward targeted therapies, cell therapies, gene therapies, and personalized medicine, placing higher demands on the disease relevance of models and their ability to simulate patient-specific differences. Organ-on-a-chip platforms can utilize patient-derived cells, induced pluripotent stem cells (iPSCs), or tumor tissues to construct specific disease models, enabling the study of disease progression, drug sensitivity, and individual responses to treatment. Multi-organ-on-a-chip systems can also connect various tissue modules to simulate the processes of drug absorption, distribution, metabolism, and toxicity within the human body. As technologies related to cell sources, culture media, sensors, and imaging analysis mature, organ-on-a-chip technology will evolve from simple single-organ functional validation to the study of complex disease mechanisms and the evaluation of combination therapies.

The trend toward replacing animal testing and the establishment of standardization

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systems are accelerating commercialization.

The global life sciences industry continues to drive efforts to reduce, refine, and replace animal testing, with regulatory bodies, research institutions, and pharmaceutical companies increasingly accepting novel *in vitro* models. If organ-on-a-chip systems can yield stable, reproducible, and verifiable results, they hold the potential for use in specific drug toxicology tests, chemical safety assessments, and medical product research. Meanwhile, advancements in automated culture systems, standardized chip interfaces, real-time sensing, AI-driven image analysis, and high-throughput equipment are lowering operational barriers and enhancing experimental consistency. Future market growth will hinge on cross-laboratory validation, evaluation standards, regulatory approval, and scalable manufacturing capabilities; platforms that are compatible with existing laboratory equipment and feature comprehensive data analysis software and standard operating procedures are the most likely to achieve successful commercialization.

Report Scope

This report is a detailed and comprehensive analysis for global Organ-On-Chips (OOC) market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Organ-On-Chips (OOC) market size and forecasts, in consumption value ($ Million), 2021-2032

Global Organ-On-Chips (OOC) market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Organ-On-Chips (OOC) market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Organ-On-Chips (OOC) market shares of main players, in revenue ($ Million), 2021-2026

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The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Organ-On-Chips (OOC)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Organ-On-Chips (OOC) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emulate, Mimetas, TissUse, Valo Health, CN Bio Innovations, Hesperos, Draper Laboratory, Nortis, Micronit Microtechnologies B.V., Kirkstall, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Organ-On-Chips (OOC) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Heart

Liver

Lung

Other Organs

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Market segment by Technology

Cell Monolayer Chip

Scaffold or Hydrogel 3D Chip

Spheroid Chip

Others

Market segment by Integration Level

Single-Organ Chip

Multi-Tissue Organ Chip

Others

Market segment by Application

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

Market segment by players, this report covers

Emulate

Mimetas

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TissUse

Valo Health

CN Bio Innovations

Hesperos

Draper Laboratory

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

Else Kooi Laboratory

Altis Biosystems

Bi/ond

Netri

Xona Microfluidics

SynVivo

Beijing Daxiang Biotech

AVATARGET

Suzhou Jiyan Biopharmaceutical

Market segment by regions, regional analysis covers

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North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Organ-On-Chips (OOC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Organ-On-Chips (OOC), with revenue, gross margin, and global market share of Organ-On-Chips (OOC) from 2021 to 2026.

Chapter 3, the Organ-On-Chips (OOC) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Organ-On-Chips (OOC) market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Organ-On-Chips (OOC).

Chapter 13, to describe Organ-On-Chips (OOC) research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Classification of Organ-On-Chips (OOC) by Type
  1.3.1 Overview: Global Organ-On-Chips (OOC) Market Size by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Global Organ-On-Chips (OOC) Consumption Value Market Share by Type in 2025
  1.3.3 Heart
  1.3.4 Liver
  1.3.5 Lung
  1.3.6 Other Organs
1.4 Classification of Organ-On-Chips (OOC) by Technology
  1.4.1 Overview: Global Organ-On-Chips (OOC) Market Size by Technology: 2021 Versus 2025 Versus 2032
  1.4.2 Global Organ-On-Chips (OOC) Consumption Value Market Share by Technology in 2025
  1.4.3 Cell Monolayer Chip
  1.4.4 Scaffold or Hydrogel 3D Chip
  1.4.5 Spheroid Chip
  1.4.6 Others
1.5 Classification of Organ-On-Chips (OOC) by Integration Level
  1.5.1 Overview: Global Organ-On-Chips (OOC) Market Size by Integration Level: 2021 Versus 2025 Versus 2032
  1.5.2 Global Organ-On-Chips (OOC) Consumption Value Market Share by Integration Level in 2025
  1.5.3 Single-Organ Chip
  1.5.4 Multi-Tissue Organ Chip
  1.5.5 Others
1.6 Global Organ-On-Chips (OOC) Market by Application
  1.6.1 Overview: Global Organ-On-Chips (OOC) Market Size by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Pharmaceutical & Biotechnology Companies
  1.6.3 Academic & Research Institutes
  1.6.4 Cosmetics Industry
  1.6.5 Others

+357 96 030922
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1.7 Global Organ-On-Chips (OOC) Market Size & Forecast
1.8 Global Organ-On-Chips (OOC) Market Size and Forecast by Region
1.8.1 Global Organ-On-Chips (OOC) Market Size by Region: 2021 VS 2025 VS 2032
1.8.2 Global Organ-On-Chips (OOC) Market Size by Region, (2021-2032)
1.8.3 North America Organ-On-Chips (OOC) Market Size and Prospect (2021-2032)
1.8.4 Europe Organ-On-Chips (OOC) Market Size and Prospect (2021-2032)
1.8.5 Asia-Pacific Organ-On-Chips (OOC) Market Size and Prospect (2021-2032)
1.8.6 South America Organ-On-Chips (OOC) Market Size and Prospect (2021-2032)
1.8.7 Middle East & Africa Organ-On-Chips (OOC) Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Emulate
2.1.1 Emulate Details
2.1.2 Emulate Major Business
2.1.3 Emulate Organ-On-Chips (OOC) Product and Solutions
2.1.4 Emulate Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Emulate Recent Developments and Future Plans
2.2 Mimetas
2.2.1 Mimetas Details
2.2.2 Mimetas Major Business
2.2.3 Mimetas Organ-On-Chips (OOC) Product and Solutions
2.2.4 Mimetas Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Mimetas Recent Developments and Future Plans
2.3 TissUse
2.3.1 TissUse Details
2.3.2 TissUse Major Business
2.3.3 TissUse Organ-On-Chips (OOC) Product and Solutions
2.3.4 TissUse Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 TissUse Recent Developments and Future Plans
2.4 Valo Health
2.4.1 Valo Health Details
2.4.2 Valo Health Major Business
2.4.3 Valo Health Organ-On-Chips (OOC) Product and Solutions
2.4.4 Valo Health Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share

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(2021-2026)
2.4.5 Valo Health Recent Developments and Future Plans
2.5 CN Bio Innovations
2.5.1 CN Bio Innovations Details
2.5.2 CN Bio Innovations Major Business
2.5.3 CN Bio Innovations Organ-On-Chips (OOC) Product and Solutions
2.5.4 CN Bio Innovations Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 CN Bio Innovations Recent Developments and Future Plans
2.6 Hesperos
2.6.1 Hesperos Details
2.6.2 Hesperos Major Business
2.6.3 Hesperos Organ-On-Chips (OOC) Product and Solutions
2.6.4 Hesperos Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Hesperos Recent Developments and Future Plans
2.7 Draper Laboratory
2.7.1 Draper Laboratory Details
2.7.2 Draper Laboratory Major Business
2.7.3 Draper Laboratory Organ-On-Chips (OOC) Product and Solutions
2.7.4 Draper Laboratory Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Draper Laboratory Recent Developments and Future Plans
2.8 Nortis
2.8.1 Nortis Details
2.8.2 Nortis Major Business
2.8.3 Nortis Organ-On-Chips (OOC) Product and Solutions
2.8.4 Nortis Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Nortis Recent Developments and Future Plans
2.9 Micronit Microtechnologies B.V.
2.9.1 Micronit Microtechnologies B.V. Details
2.9.2 Micronit Microtechnologies B.V. Major Business
2.9.3 Micronit Microtechnologies B.V. Organ-On-Chips (OOC) Product and Solutions
2.9.4 Micronit Microtechnologies B.V. Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Micronit Microtechnologies B.V. Recent Developments and Future Plans
2.10 Kirkstall
2.10.1 Kirkstall Details

+357 96 030922
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2.10.2 Kirkstall Major Business
2.10.3 Kirkstall Organ-On-Chips (OOC) Product and Solutions
2.10.4 Kirkstall Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Kirkstall Recent Developments and Future Plans
2.11 Cherry Biotech SAS
2.11.1 Cherry Biotech SAS Details
2.11.2 Cherry Biotech SAS Major Business
2.11.3 Cherry Biotech SAS Organ-On-Chips (OOC) Product and Solutions
2.11.4 Cherry Biotech SAS Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Cherry Biotech SAS Recent Developments and Future Plans
2.12 Else Kooi Laboratory
2.12.1 Else Kooi Laboratory Details
2.12.2 Else Kooi Laboratory Major Business
2.12.3 Else Kooi Laboratory Organ-On-Chips (OOC) Product and Solutions
2.12.4 Else Kooi Laboratory Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Else Kooi Laboratory Recent Developments and Future Plans
2.13 Altis Biosystems
2.13.1 Altis Biosystems Details
2.13.2 Altis Biosystems Major Business
2.13.3 Altis Biosystems Organ-On-Chips (OOC) Product and Solutions
2.13.4 Altis Biosystems Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.13.5 Altis Biosystems Recent Developments and Future Plans
2.14 Bi/ond
2.14.1 Bi/ond Details
2.14.2 Bi/ond Major Business
2.14.3 Bi/ond Organ-On-Chips (OOC) Product and Solutions
2.14.4 Bi/ond Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.14.5 Bi/ond Recent Developments and Future Plans
2.15 Netri
2.15.1 Netri Details
2.15.2 Netri Major Business
2.15.3 Netri Organ-On-Chips (OOC) Product and Solutions
2.15.4 Netri Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

2.15.5 Netri Recent Developments and Future Plans
2.16 Xona Microfluidics
2.16.1 Xona Microfluidics Details
2.16.2 Xona Microfluidics Major Business
2.16.3 Xona Microfluidics Organ-On-Chips (OOC) Product and Solutions
2.16.4 Xona Microfluidics Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.16.5 Xona Microfluidics Recent Developments and Future Plans
2.17 SynVivo
2.17.1 SynVivo Details
2.17.2 SynVivo Major Business
2.17.3 SynVivo Organ-On-Chips (OOC) Product and Solutions
2.17.4 SynVivo Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.17.5 SynVivo Recent Developments and Future Plans
2.18 Beijing Daxiang Biotech
2.18.1 Beijing Daxiang Biotech Details
2.18.2 Beijing Daxiang Biotech Major Business
2.18.3 Beijing Daxiang Biotech Organ-On-Chips (OOC) Product and Solutions
2.18.4 Beijing Daxiang Biotech Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.18.5 Beijing Daxiang Biotech Recent Developments and Future Plans
2.19 AVATARGET
2.19.1 AVATARGET Details
2.19.2 AVATARGET Major Business
2.19.3 AVATARGET Organ-On-Chips (OOC) Product and Solutions
2.19.4 AVATARGET Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.19.5 AVATARGET Recent Developments and Future Plans
2.20 Suzhou Jiyan Biopharmaceutical
2.20.1 Suzhou Jiyan Biopharmaceutical Details
2.20.2 Suzhou Jiyan Biopharmaceutical Major Business
2.20.3 Suzhou Jiyan Biopharmaceutical Organ-On-Chips (OOC) Product and Solutions
2.20.4 Suzhou Jiyan Biopharmaceutical Organ-On-Chips (OOC) Revenue, Gross Margin and Market Share (2021-2026)
2.20.5 Suzhou Jiyan Biopharmaceutical Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

+357 96 030922
info@marketpublishers.com

3.1 Global Organ-On-Chips (OOC) Revenue and Share by Players (2021-2026)
3.2 Market Share Analysis (2025)
  3.2.1 Market Share of Organ-On-Chips (OOC) by Company Revenue
  3.2.2 Top 3 Organ-On-Chips (OOC) Players Market Share in 2025
  3.2.3 Top 6 Organ-On-Chips (OOC) Players Market Share in 2025
3.3 Organ-On-Chips (OOC) Market: Overall Company Footprint Analysis
  3.3.1 Organ-On-Chips (OOC) Market: Region Footprint
  3.3.2 Organ-On-Chips (OOC) Market: Company Product Type Footprint
  3.3.3 Organ-On-Chips (OOC) Market: Company Product Application Footprint
3.4 New Market Entrants and Barriers to Market Entry
3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Organ-On-Chips (OOC) Consumption Value and Market Share by Type (2021-2026)
4.2 Global Organ-On-Chips (OOC) Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2026)
5.2 Global Organ-On-Chips (OOC) Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Organ-On-Chips (OOC) Consumption Value by Type (2021-2032)
6.2 North America Organ-On-Chips (OOC) Market Size by Application (2021-2032)
6.3 North America Organ-On-Chips (OOC) Market Size by Country
  6.3.1 North America Organ-On-Chips (OOC) Consumption Value by Country (2021-2032)
  6.3.2 United States Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
  6.3.3 Canada Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
  6.3.4 Mexico Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Organ-On-Chips (OOC) Consumption Value by Type (2021-2032)

+357 96 030922
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7.2 Europe Organ-On-Chips (OOC) Consumption Value by Application (2021-2032)
7.3 Europe Organ-On-Chips (OOC) Market Size by Country
7.3.1 Europe Organ-On-Chips (OOC) Consumption Value by Country (2021-2032)
7.3.2 Germany Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
7.3.3 France Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
7.3.4 United Kingdom Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
7.3.5 Russia Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
7.3.6 Italy Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Type (2021-2032)
8.2 Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Application (2021-2032)
8.3 Asia-Pacific Organ-On-Chips (OOC) Market Size by Region
8.3.1 Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Region (2021-2032)
8.3.2 China Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
8.3.3 Japan Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
8.3.4 South Korea Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
8.3.5 India Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
8.3.6 Southeast Asia Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
8.3.7 Australia Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Organ-On-Chips (OOC) Consumption Value by Type (2021-2032)
9.2 South America Organ-On-Chips (OOC) Consumption Value by Application (2021-2032)
9.3 South America Organ-On-Chips (OOC) Market Size by Country
9.3.1 South America Organ-On-Chips (OOC) Consumption Value by Country (2021-2032)
9.3.2 Brazil Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
9.3.3 Argentina Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Type (2021-2032)
10.2 Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Application (2021-2032)

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10.3 Middle East & Africa Organ-On-Chips (OOC) Market Size by Country
10.3.1 Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Country (2021-2032)
10.3.2 Turkey Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
10.3.3 Saudi Arabia Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)
10.3.4 UAE Organ-On-Chips (OOC) Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Organ-On-Chips (OOC) Market Drivers
11.2 Organ-On-Chips (OOC) Market Restraints
11.3 Organ-On-Chips (OOC) Trends Analysis
11.4 Porters Five Forces Analysis
11.4.1 Threat of New Entrants
11.4.2 Bargaining Power of Suppliers
11.4.3 Bargaining Power of Buyers
11.4.4 Threat of Substitutes
11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Organ-On-Chips (OOC) Industry Chain
12.2 Organ-On-Chips (OOC) Upstream Analysis
12.3 Organ-On-Chips (OOC) Midstream Analysis
12.4 Organ-On-Chips (OOC) Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology
14.2 Research Process and Data Source
14.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Global Organ-On-Chips (OOC) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Organ-On-Chips (OOC) Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 3. Global Organ-On-Chips (OOC) Consumption Value by Integration Level, (USD Million), 2021 & 2025 & 2032
Table 4. Global Organ-On-Chips (OOC) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Global Organ-On-Chips (OOC) Consumption Value by Region (2021-2026) & (USD Million)
Table 6. Global Organ-On-Chips (OOC) Consumption Value by Region (2027-2032) & (USD Million)
Table 7. Emulate Company Information, Head Office, and Major Competitors
Table 8. Emulate Major Business
Table 9. Emulate Organ-On-Chips (OOC) Product and Solutions
Table 10. Emulate Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 11. Emulate Recent Developments and Future Plans
Table 12. Mimetas Company Information, Head Office, and Major Competitors
Table 13. Mimetas Major Business
Table 14. Mimetas Organ-On-Chips (OOC) Product and Solutions
Table 15. Mimetas Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 16. Mimetas Recent Developments and Future Plans
Table 17. TissUse Company Information, Head Office, and Major Competitors
Table 18. TissUse Major Business
Table 19. TissUse Organ-On-Chips (OOC) Product and Solutions
Table 20. TissUse Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 21. Valo Health Company Information, Head Office, and Major Competitors
Table 22. Valo Health Major Business
Table 23. Valo Health Organ-On-Chips (OOC) Product and Solutions
Table 24. Valo Health Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 25. Valo Health Recent Developments and Future Plans

+357 96 030922
info@marketpublishers.com

Table 26. CN Bio Innovations Company Information, Head Office, and Major Competitors
Table 27. CN Bio Innovations Major Business
Table 28. CN Bio Innovations Organ-On-Chips (OOC) Product and Solutions
Table 29. CN Bio Innovations Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. CN Bio Innovations Recent Developments and Future Plans
Table 31. Hesperos Company Information, Head Office, and Major Competitors
Table 32. Hesperos Major Business
Table 33. Hesperos Organ-On-Chips (OOC) Product and Solutions
Table 34. Hesperos Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Hesperos Recent Developments and Future Plans
Table 36. Draper Laboratory Company Information, Head Office, and Major Competitors
Table 37. Draper Laboratory Major Business
Table 38. Draper Laboratory Organ-On-Chips (OOC) Product and Solutions
Table 39. Draper Laboratory Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Draper Laboratory Recent Developments and Future Plans
Table 41. Nortis Company Information, Head Office, and Major Competitors
Table 42. Nortis Major Business
Table 43. Nortis Organ-On-Chips (OOC) Product and Solutions
Table 44. Nortis Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. Nortis Recent Developments and Future Plans
Table 46. Micronit Microtechnologies B.V. Company Information, Head Office, and Major Competitors
Table 47. Micronit Microtechnologies B.V. Major Business
Table 48. Micronit Microtechnologies B.V. Organ-On-Chips (OOC) Product and Solutions
Table 49. Micronit Microtechnologies B.V. Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 50. Micronit Microtechnologies B.V. Recent Developments and Future Plans
Table 51. Kirkstall Company Information, Head Office, and Major Competitors
Table 52. Kirkstall Major Business
Table 53. Kirkstall Organ-On-Chips (OOC) Product and Solutions
Table 54. Kirkstall Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. Kirkstall Recent Developments and Future Plans

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Table 56. Cherry Biotech SAS Company Information, Head Office, and Major Competitors
Table 57. Cherry Biotech SAS Major Business
Table 58. Cherry Biotech SAS Organ-On-Chips (OOC) Product and Solutions
Table 59. Cherry Biotech SAS Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 60. Cherry Biotech SAS Recent Developments and Future Plans
Table 61. Else Kooi Laboratory Company Information, Head Office, and Major Competitors
Table 62. Else Kooi Laboratory Major Business
Table 63. Else Kooi Laboratory Organ-On-Chips (OOC) Product and Solutions
Table 64. Else Kooi Laboratory Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 65. Else Kooi Laboratory Recent Developments and Future Plans
Table 66. Altis Biosystems Company Information, Head Office, and Major Competitors
Table 67. Altis Biosystems Major Business
Table 68. Altis Biosystems Organ-On-Chips (OOC) Product and Solutions
Table 69. Altis Biosystems Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 70. Altis Biosystems Recent Developments and Future Plans
Table 71. Bi/ond Company Information, Head Office, and Major Competitors
Table 72. Bi/ond Major Business
Table 73. Bi/ond Organ-On-Chips (OOC) Product and Solutions
Table 74. Bi/ond Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 75. Bi/ond Recent Developments and Future Plans
Table 76. Netri Company Information, Head Office, and Major Competitors
Table 77. Netri Major Business
Table 78. Netri Organ-On-Chips (OOC) Product and Solutions
Table 79. Netri Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 80. Netri Recent Developments and Future Plans
Table 81. Xona Microfluidics Company Information, Head Office, and Major Competitors
Table 82. Xona Microfluidics Major Business
Table 83. Xona Microfluidics Organ-On-Chips (OOC) Product and Solutions
Table 84. Xona Microfluidics Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Xona Microfluidics Recent Developments and Future Plans
Table 86. SynVivo Company Information, Head Office, and Major Competitors

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Table 87. SynVivo Major Business
Table 88. SynVivo Organ-On-Chips (OOC) Product and Solutions
Table 89. SynVivo Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. SynVivo Recent Developments and Future Plans
Table 91. Beijing Daxiang Biotech Company Information, Head Office, and Major Competitors
Table 92. Beijing Daxiang Biotech Major Business
Table 93. Beijing Daxiang Biotech Organ-On-Chips (OOC) Product and Solutions
Table 94. Beijing Daxiang Biotech Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 95. Beijing Daxiang Biotech Recent Developments and Future Plans
Table 96. AVATARGET Company Information, Head Office, and Major Competitors
Table 97. AVATARGET Major Business
Table 98. AVATARGET Organ-On-Chips (OOC) Product and Solutions
Table 99. AVATARGET Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 100. AVATARGET Recent Developments and Future Plans
Table 101. Suzhou Jiyan Biopharmaceutical Company Information, Head Office, and Major Competitors
Table 102. Suzhou Jiyan Biopharmaceutical Major Business
Table 103. Suzhou Jiyan Biopharmaceutical Organ-On-Chips (OOC) Product and Solutions
Table 104. Suzhou Jiyan Biopharmaceutical Organ-On-Chips (OOC) Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 105. Suzhou Jiyan Biopharmaceutical Recent Developments and Future Plans
Table 106. Global Organ-On-Chips (OOC) Revenue (USD Million) by Players (2021-2026)
Table 107. Global Organ-On-Chips (OOC) Revenue Share by Players (2021-2026)
Table 108. Breakdown of Organ-On-Chips (OOC) by Company Type (Tier 1, Tier 2, and Tier 3)
Table 109. Market Position of Players in Organ-On-Chips (OOC), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 110. Head Office of Key Organ-On-Chips (OOC) Players
Table 111. Organ-On-Chips (OOC) Market: Company Product Type Footprint
Table 112. Organ-On-Chips (OOC) Market: Company Product Application Footprint
Table 113. Organ-On-Chips (OOC) New Market Entrants and Barriers to Market Entry
Table 114. Organ-On-Chips (OOC) Mergers, Acquisition, Agreements, and Collaborations

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Table 115. Global Organ-On-Chips (OOC) Consumption Value (USD Million) by Type (2021-2026)
Table 116. Global Organ-On-Chips (OOC) Consumption Value Share by Type (2021-2026)
Table 117. Global Organ-On-Chips (OOC) Consumption Value Forecast by Type (2027-2032)
Table 118. Global Organ-On-Chips (OOC) Consumption Value by Application (2021-2026)
Table 119. Global Organ-On-Chips (OOC) Consumption Value Forecast by Application (2027-2032)
Table 120. North America Organ-On-Chips (OOC) Consumption Value by Type (2021-2026) & (USD Million)
Table 121. North America Organ-On-Chips (OOC) Consumption Value by Type (2027-2032) & (USD Million)
Table 122. North America Organ-On-Chips (OOC) Consumption Value by Application (2021-2026) & (USD Million)
Table 123. North America Organ-On-Chips (OOC) Consumption Value by Application (2027-2032) & (USD Million)
Table 124. North America Organ-On-Chips (OOC) Consumption Value by Country (2021-2026) & (USD Million)
Table 125. North America Organ-On-Chips (OOC) Consumption Value by Country (2027-2032) & (USD Million)
Table 126. Europe Organ-On-Chips (OOC) Consumption Value by Type (2021-2026) & (USD Million)
Table 127. Europe Organ-On-Chips (OOC) Consumption Value by Type (2027-2032) & (USD Million)
Table 128. Europe Organ-On-Chips (OOC) Consumption Value by Application (2021-2026) & (USD Million)
Table 129. Europe Organ-On-Chips (OOC) Consumption Value by Application (2027-2032) & (USD Million)
Table 130. Europe Organ-On-Chips (OOC) Consumption Value by Country (2021-2026) & (USD Million)
Table 131. Europe Organ-On-Chips (OOC) Consumption Value by Country (2027-2032) & (USD Million)
Table 132. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Type (2021-2026) & (USD Million)
Table 133. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Type (2027-2032) & (USD Million)
Table 134. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Application

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(2021-2026) & (USD Million)
Table 135. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Application (2027-2032) & (USD Million)
Table 136. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Region (2021-2026) & (USD Million)
Table 137. Asia-Pacific Organ-On-Chips (OOC) Consumption Value by Region (2027-2032) & (USD Million)
Table 138. South America Organ-On-Chips (OOC) Consumption Value by Type (2021-2026) & (USD Million)
Table 139. South America Organ-On-Chips (OOC) Consumption Value by Type (2027-2032) & (USD Million)
Table 140. South America Organ-On-Chips (OOC) Consumption Value by Application (2021-2026) & (USD Million)
Table 141. South America Organ-On-Chips (OOC) Consumption Value by Application (2027-2032) & (USD Million)
Table 142. South America Organ-On-Chips (OOC) Consumption Value by Country (2021-2026) & (USD Million)
Table 143. South America Organ-On-Chips (OOC) Consumption Value by Country (2027-2032) & (USD Million)
Table 144. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Type (2021-2026) & (USD Million)
Table 145. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Type (2027-2032) & (USD Million)
Table 146. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Application (2021-2026) & (USD Million)
Table 147. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Application (2027-2032) & (USD Million)
Table 148. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Country (2021-2026) & (USD Million)
Table 149. Middle East & Africa Organ-On-Chips (OOC) Consumption Value by Country (2027-2032) & (USD Million)
Table 150. Global Key Players of Organ-On-Chips (OOC) Upstream (Raw Materials)
Table 151. Global Organ-On-Chips (OOC) Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Organ-On-Chips (OOC) Picture
Figure 2. Global Organ-On-Chips (OOC) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Organ-On-Chips (OOC) Consumption Value Market Share by Type in 2025
Figure 4. Heart
Figure 5. Liver
Figure 6. Lung
Figure 7. Other Organs
Figure 8. Global Organ-On-Chips (OOC) Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Organ-On-Chips (OOC) Consumption Value Market Share by Technology in 2025
Figure 10. Cell Monolayer Chip
Figure 11. Scaffold or Hydrogel 3D Chip
Figure 12. Spheroid Chip
Figure 13. Others
Figure 14. Global Organ-On-Chips (OOC) Consumption Value by Integration Level, (USD Million), 2021 & 2025 & 2032
Figure 15. Global Organ-On-Chips (OOC) Consumption Value Market Share by Integration Level in 2025
Figure 16. Single-Organ Chip
Figure 17. Multi-Tissue Organ Chip
Figure 18. Others
Figure 19. Global Organ-On-Chips (OOC) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 20. Organ-On-Chips (OOC) Consumption Value Market Share by Application in 2025
Figure 21. Pharmaceutical & Biotechnology Companies Picture
Figure 22. Academic & Research Institutes Picture
Figure 23. Cosmetics Industry Picture
Figure 24. Others Picture
Figure 25. Global Organ-On-Chips (OOC) Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 26. Global Organ-On-Chips (OOC) Consumption Value and Forecast

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(2021-2032) & (USD Million)
Figure 27. Global Market Organ-On-Chips (OOC) Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
Figure 28. Global Organ-On-Chips (OOC) Consumption Value Market Share by Region (2021-2032)
Figure 29. Global Organ-On-Chips (OOC) Consumption Value Market Share by Region in 2025
Figure 30. North America Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 31. Europe Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 32. Asia-Pacific Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 33. South America Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 34. Middle East & Africa Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 35. Company Three Recent Developments and Future Plans
Figure 36. Global Organ-On-Chips (OOC) Revenue Share by Players in 2025
Figure 37. Organ-On-Chips (OOC) Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025
Figure 38. Market Share of Organ-On-Chips (OOC) by Player Revenue in 2025
Figure 39. Top 3 Organ-On-Chips (OOC) Players Market Share in 2025
Figure 40. Top 6 Organ-On-Chips (OOC) Players Market Share in 2025
Figure 41. Global Organ-On-Chips (OOC) Consumption Value Share by Type (2021-2026)
Figure 42. Global Organ-On-Chips (OOC) Market Share Forecast by Type (2027-2032)
Figure 43. Global Organ-On-Chips (OOC) Consumption Value Share by Application (2021-2026)
Figure 44. Global Organ-On-Chips (OOC) Market Share Forecast by Application (2027-2032)
Figure 45. North America Organ-On-Chips (OOC) Consumption Value Market Share by Type (2021-2032)
Figure 46. North America Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2032)
Figure 47. North America Organ-On-Chips (OOC) Consumption Value Market Share by Country (2021-2032)
Figure 48. United States Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)

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Figure 49. Canada Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 50. Mexico Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 51. Europe Organ-On-Chips (OOC) Consumption Value Market Share by Type (2021-2032)
Figure 52. Europe Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2032)
Figure 53. Europe Organ-On-Chips (OOC) Consumption Value Market Share by Country (2021-2032)
Figure 54. Germany Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 55. France Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 56. United Kingdom Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 57. Russia Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 58. Italy Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 59. Asia-Pacific Organ-On-Chips (OOC) Consumption Value Market Share by Type (2021-2032)
Figure 60. Asia-Pacific Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2032)
Figure 61. Asia-Pacific Organ-On-Chips (OOC) Consumption Value Market Share by Region (2021-2032)
Figure 62. China Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 63. Japan Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 64. South Korea Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 65. India Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 66. Southeast Asia Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 67. Australia Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 68. South America Organ-On-Chips (OOC) Consumption Value Market Share by

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Type (2021-2032)
Figure 69. South America Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2032)
Figure 70. South America Organ-On-Chips (OOC) Consumption Value Market Share by Country (2021-2032)
Figure 71. Brazil Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 72. Argentina Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 73. Middle East & Africa Organ-On-Chips (OOC) Consumption Value Market Share by Type (2021-2032)
Figure 74. Middle East & Africa Organ-On-Chips (OOC) Consumption Value Market Share by Application (2021-2032)
Figure 75. Middle East & Africa Organ-On-Chips (OOC) Consumption Value Market Share by Country (2021-2032)
Figure 76. Turkey Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 77. Saudi Arabia Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 78. UAE Organ-On-Chips (OOC) Consumption Value (2021-2032) & (USD Million)
Figure 79. Organ-On-Chips (OOC) Market Drivers
Figure 80. Organ-On-Chips (OOC) Market Restraints
Figure 81. Organ-On-Chips (OOC) Market Trends
Figure 82. Porters Five Forces Analysis
Figure 83. Organ-On-Chips (OOC) Industrial Chain
Figure 84. Methodology
Figure 85. Research Process and Data Source

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