

Human Organs-on-Chips Industry Research Report 2023

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Abstracts

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 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.

Highlights

The global Human Organs-on-Chips market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2023, at a CAGR of % during 2024 and 2029.

Global key players of Human Organs-on-Chips include Emulate, TissUse, Hesperos, CN Bio Innovations, Tara Biosystems and Draper Laboratory, etc. Top five players occupy for a share about 46%. North America is the largest market, with a share about 42%, followed by Asia-Pacific and Europe. In terms of product, Liver-on-a-chip is the largest segment, with a share over 28%. In terms of End User, Academic & Research Institutes is the largest market, with a share over 40%.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Human Organs-on-Chips, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Human Organs-on-Chips.

The Human Organs-on-Chips market size, estimations, and forecasts are provided in terms of sales volume (K Units) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Human Organs-on-Chips market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Human Organs-on-Chips manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2018-2023. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Emulate

TissUse

Hesperos

CN Bio Innovations

Tara Biosystems

Draper Laboratory

Mimetas

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

Else Kooi Laboratory

Product Type Insights

Global markets are presented by Human Organs-on-Chips type, along with growth forecasts through 2029. Estimates on sales and revenue are based on the price in the supply chain at which the Human Organs-on-Chips are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows sales and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

Human Organs-on-Chips segment by Type

Brain-on-a-chip

Liver-on-a-chip

Kidney-on-a-chip

Lung-on-a-chip

Heart-on-a-chip

Intestine-on-a-chip

Vessel-on-a-chip

Other Organs

Application Insights

This report has provided the market size (sales and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Human Organs-on-Chips market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Human Organs-on-Chips market.

Human Organs-on-Chips segment by End User

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America, Middle East & Africa. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2021 because of the base year, with estimates for 2023 and forecast revenue for 2029.

North America

United States

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Human Organs-on-Chips market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Human Organs-on-Chips market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Human Organs-on-Chips and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Human Organs-on-Chips industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Human Organs-on-Chips.

This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Human Organs-on-Chips manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Human Organs-on-Chips by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Human Organs-on-Chips in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by end user, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Global Market Growth Prospects
 - 2.2.1 Global Human Organs-on-Chips Market Size (2018-2029) & (US\$ Million)
 - 2.2.2 Global Human Organs-on-Chips Sales (2018-2029)
 - 2.2.3 Global Human Organs-on-Chips Market Average Price (2018-2029)
- 2.3 Human Organs-on-Chips by Type
 - 2.3.1 Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
 - 1.2.2 Brain-on-a-chip
 - 1.2.3 Liver-on-a-chip
 - 1.2.4 Kidney-on-a-chip
 - 1.2.5 Lung-on-a-chip
 - 1.2.6 Heart-on-a-chip
 - 1.2.7 Intestine-on-a-chip
 - 1.2.8 Vessel-on-a-chip
 - 1.2.9 Other Organs
- 2.4 Human Organs-on-Chips by End User
 - 2.4.1 Market Value Comparison by End User (2018 VS 2022 VS 2029) & (US\$ Million)
 - 2.4.2 Pharmaceutical & Biotechnology Companies
 - 2.4.3 Academic & Research Institutes
 - 2.4.4 Cosmetics Industry
 - 2.4.5 Others

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Human Organs-on-Chips Market Competitive Situation by Manufacturers

(2018 Versus 2022)

3.2 Global Human Organs-on-Chips Sales (K Units) of Manufacturers (2018-2023)

3.3 Global Human Organs-on-Chips Revenue of Manufacturers (2018-2023)

3.4 Global Human Organs-on-Chips Average Price by Manufacturers (2018-2023)

3.5 Global Human Organs-on-Chips Industry Ranking, 2021 VS 2022 VS 2023

3.6 Global Manufacturers of Human Organs-on-Chips, Manufacturing Sites & Headquarters

3.7 Global Manufacturers of Human Organs-on-Chips, Product Type & Application

3.8 Global Manufacturers of Human Organs-on-Chips, Date of Enter into This Industry

3.9 Global Human Organs-on-Chips Market CR5 and HHI

3.10 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 Emulate

4.1.1 Emulate Company Information

4.1.2 Emulate Business Overview

4.1.3 Emulate Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.1.4 Emulate Human Organs-on-Chips Product Portfolio

4.1.5 Emulate Recent Developments

4.2 TissUse

4.2.1 TissUse Company Information

4.2.2 TissUse Business Overview

4.2.3 TissUse Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.2.4 TissUse Human Organs-on-Chips Product Portfolio

4.2.5 TissUse Recent Developments

4.3 Hesperos

4.3.1 Hesperos Company Information

4.3.2 Hesperos Business Overview

4.3.3 Hesperos Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.3.4 Hesperos Human Organs-on-Chips Product Portfolio

4.3.5 Hesperos Recent Developments

4.4 CN Bio Innovations

4.4.1 CN Bio Innovations Company Information

4.4.2 CN Bio Innovations Business Overview

4.4.3 CN Bio Innovations Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.4.4 CN Bio Innovations Human Organs-on-Chips Product Portfolio

4.4.5 CN Bio Innovations Recent Developments

4.5 Tara Biosystems

4.5.1 Tara Biosystems Company Information

4.5.2 Tara Biosystems Business Overview

4.5.3 Tara Biosystems Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

6.5.4 Tara Biosystems Human Organs-on-Chips Product Portfolio

6.5.5 Tara Biosystems Recent Developments

4.6 Draper Laboratory

4.6.1 Draper Laboratory Company Information

4.6.2 Draper Laboratory Business Overview

4.6.3 Draper Laboratory Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.6.4 Draper Laboratory Human Organs-on-Chips Product Portfolio

4.6.5 Draper Laboratory Recent Developments

4.7 Mimetas

4.7.1 Mimetas Company Information

4.7.2 Mimetas Business Overview

4.7.3 Mimetas Human Organs-on-Chips Sales, Revenue and Gross Margin

(2018-2023)

4.7.4 Mimetas Human Organs-on-Chips Product Portfolio

4.7.5 Mimetas Recent Developments

6.8 Nortis

4.8.1 Nortis Company Information

4.8.2 Nortis Business Overview

4.8.3 Nortis Human Organs-on-Chips Sales, Revenue and Gross Margin (2018-2023)

4.8.4 Nortis Human Organs-on-Chips Product Portfolio

4.8.5 Nortis Recent Developments

4.9 Micronit Microtechnologies B.V.

4.9.1 Micronit Microtechnologies B.V. Company Information

4.9.2 Micronit Microtechnologies B.V. Business Overview

4.9.3 Micronit Microtechnologies B.V. Human Organs-on-Chips Sales, Revenue and Gross Margin (2018-2023)

4.9.4 Micronit Microtechnologies B.V. Human Organs-on-Chips Product Portfolio

4.9.5 Micronit Microtechnologies B.V. Recent Developments

4.10 Kirkstall

4.10.1 Kirkstall Company Information

- 4.10.2 Kirkstall Business Overview
- 4.10.3 Kirkstall Human Organs-on-Chips Sales, Revenue and Gross Margin (2018-2023)
- 4.10.4 Kirkstall Human Organs-on-Chips Product Portfolio
- 4.10.5 Kirkstall Recent Developments
- 6.11 Cherry Biotech SAS
 - 6.11.1 Cherry Biotech SAS Company Information
 - 6.11.2 Cherry Biotech SAS Human Organs-on-Chips Business Overview
 - 6.11.3 Cherry Biotech SAS Human Organs-on-Chips Sales, Revenue and Gross Margin (2018-2023)
 - 6.11.4 Cherry Biotech SAS Human Organs-on-Chips Product Portfolio
 - 6.11.5 Cherry Biotech SAS Recent Developments
- 6.12 Else Kooi Laboratory
 - 6.12.1 Else Kooi Laboratory Company Information
 - 6.12.2 Else Kooi Laboratory Human Organs-on-Chips Business Overview
 - 6.12.3 Else Kooi Laboratory Human Organs-on-Chips Sales, Revenue and Gross Margin (2018-2023)
 - 6.12.4 Else Kooi Laboratory Human Organs-on-Chips Product Portfolio
 - 6.12.5 Else Kooi Laboratory Recent Developments

5 GLOBAL HUMAN ORGANS-ON-CHIPS MARKET SCENARIO BY REGION

- 5.1 Global Human Organs-on-Chips Market Size by Region: 2018 VS 2022 VS 2029
- 5.2 Global Human Organs-on-Chips Sales by Region: 2018-2029
 - 5.2.1 Global Human Organs-on-Chips Sales by Region: 2018-2023
 - 5.2.2 Global Human Organs-on-Chips Sales by Region: 2024-2029
- 5.3 Global Human Organs-on-Chips Revenue by Region: 2018-2029
 - 5.3.1 Global Human Organs-on-Chips Revenue by Region: 2018-2023
 - 5.3.2 Global Human Organs-on-Chips Revenue by Region: 2024-2029
- 5.4 North America Human Organs-on-Chips Market Facts & Figures by Country
 - 5.4.1 North America Human Organs-on-Chips Market Size by Country: 2018 VS 2022 VS 2029
 - 5.4.2 North America Human Organs-on-Chips Sales by Country (2018-2029)
 - 5.4.3 North America Human Organs-on-Chips Revenue by Country (2018-2029)
 - 5.4.4 United States
 - 5.4.5 Canada
- 5.5 Europe Human Organs-on-Chips Market Facts & Figures by Country
 - 5.5.1 Europe Human Organs-on-Chips Market Size by Country: 2018 VS 2022 VS 2029

5.5.2 Europe Human Organs-on-Chips Sales by Country (2018-2029)

5.5.3 Europe Human Organs-on-Chips Revenue by Country (2018-2029)

5.5.4 Germany

5.5.5 France

5.5.6 U.K.

5.5.7 Italy

5.5.8 Russia

5.6 Asia Pacific Human Organs-on-Chips Market Facts & Figures by Country

5.6.1 Asia Pacific Human Organs-on-Chips Market Size by Country: 2018 VS 2022 VS 2029

5.6.2 Asia Pacific Human Organs-on-Chips Sales by Country (2018-2029)

5.6.3 Asia Pacific Human Organs-on-Chips Revenue by Country (2018-2029)

5.6.4 China

5.6.5 Japan

5.6.6 South Korea

5.6.7 India

5.6.8 Australia

5.6.9 China Taiwan

5.6.10 Indonesia

5.6.11 Thailand

5.6.12 Malaysia

5.7 Latin America Human Organs-on-Chips Market Facts & Figures by Country

5.7.1 Latin America Human Organs-on-Chips Market Size by Country: 2018 VS 2022 VS 2029

5.7.2 Latin America Human Organs-on-Chips Sales by Country (2018-2029)

5.7.3 Latin America Human Organs-on-Chips Revenue by Country (2018-2029)

5.7.4 Mexico

5.7.5 Brazil

5.7.6 Argentina

5.8 Middle East and Africa Human Organs-on-Chips Market Facts & Figures by Country

5.8.1 Middle East and Africa Human Organs-on-Chips Market Size by Country: 2018 VS 2022 VS 2029

5.8.2 Middle East and Africa Human Organs-on-Chips Sales by Country (2018-2029)

5.8.3 Middle East and Africa Human Organs-on-Chips Revenue by Country (2018-2029)

5.8.4 Turkey

5.8.5 Saudi Arabia

5.8.6 UAE

6 SEGMENT BY TYPE

- 6.1 Global Human Organs-on-Chips Sales by Type (2018-2029)
 - 6.1.1 Global Human Organs-on-Chips Sales by Type (2018-2029) & (K Units)
 - 6.1.2 Global Human Organs-on-Chips Sales Market Share by Type (2018-2029)
- 6.2 Global Human Organs-on-Chips Revenue by Type (2018-2029)
 - 6.2.1 Global Human Organs-on-Chips Sales by Type (2018-2029) & (US\$ Million)
 - 6.2.2 Global Human Organs-on-Chips Revenue Market Share by Type (2018-2029)
- 6.3 Global Human Organs-on-Chips Price by Type (2018-2029)

7 SEGMENT BY END USER

- 7.1 Global Human Organs-on-Chips Sales by End User (2018-2029)
 - 7.1.1 Global Human Organs-on-Chips Sales by End User (2018-2029) & (K Units)
 - 7.1.2 Global Human Organs-on-Chips Sales Market Share by End User (2018-2029)
- 7.2 Global Human Organs-on-Chips Revenue by End User (2018-2029)
 - 6.2.1 Global Human Organs-on-Chips Sales by End User (2018-2029) & (US\$ Million)
 - 6.2.2 Global Human Organs-on-Chips Revenue Market Share by End User (2018-2029)
- 7.3 Global Human Organs-on-Chips Price by End User (2018-2029)

8 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

- 8.1 Human Organs-on-Chips Value Chain Analysis
 - 8.1.1 Human Organs-on-Chips Key Raw Materials
 - 8.1.2 Raw Materials Key Suppliers
 - 8.1.3 Human Organs-on-Chips Production Mode & Process
- 8.2 Human Organs-on-Chips Sales Channels Analysis
 - 8.2.1 Direct Comparison with Distribution Share
 - 8.2.2 Human Organs-on-Chips Distributors
 - 8.2.3 Human Organs-on-Chips Customers

9 GLOBAL HUMAN ORGANS-ON-CHIPS ANALYZING MARKET DYNAMICS

- 9.1 Human Organs-on-Chips Industry Trends
- 9.2 Human Organs-on-Chips Industry Drivers
- 9.3 Human Organs-on-Chips Industry Opportunities and Challenges
- 9.4 Human Organs-on-Chips Industry Restraints

10 REPORT CONCLUSION

11 DISCLAIMER

List Of Tables

LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by End User (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Human Organs-on-Chips Volume and Revenue Market Size and CAGR of Manufacturers (2018 Versus 2022)

Table 6. Global Human Organs-on-Chips Sales (K Units) of Manufacturers (2018-2023)

Table 7. Global Human Organs-on-Chips Sales Market Share by Manufacturers (2018-2023)

Table 8. Global Human Organs-on-Chips Revenue of Manufacturers (2018-2023)

Table 9. Global Human Organs-on-Chips Revenue Share by Manufacturers (2018-2023)

Table 10. Global Market Human Organs-on-Chips Average Price (US\$/Unit) of Manufacturers (2018-2023)

Table 11. Global Human Organs-on-Chips Industry Ranking, 2021 VS 2022 VS 2023

Table 12. Global Manufacturers of Human Organs-on-Chips, Product Type & Application

Table 13. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Global Human Organs-on-Chips by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2022)

Table 15. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 16. Emulate Company Information

Table 17. Emulate Business Overview

Table 18. Emulate Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 19. Emulate Human Organs-on-Chips Product Portfolio

Table 20. Emulate Recent Developments

Table 21. TissUse Company Information

Table 22. TissUse Business Overview

Table 23. TissUse Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 24. TissUse Human Organs-on-Chips Product Portfolio

Table 25. TissUse Recent Developments

Table 26. Hesperos Company Information

Table 27. Hesperos Business Overview

Table 28. Hesperos Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 29. Hesperos Human Organs-on-Chips Product Portfolio

Table 30. Hesperos Recent Developments

Table 31. CN Bio Innovations Company Information

Table 32. CN Bio Innovations Business Overview

Table 33. CN Bio Innovations Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 34. CN Bio Innovations Human Organs-on-Chips Product Portfolio

Table 35. CN Bio Innovations Recent Developments

Table 36. Tara Biosystems Company Information

Table 37. Tara Biosystems Business Overview

Table 38. Tara Biosystems Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 39. Tara Biosystems Human Organs-on-Chips Product Portfolio

Table 40. Tara Biosystems Recent Developments

Table 41. Draper Laboratory Company Information

Table 42. Draper Laboratory Business Overview

Table 43. Draper Laboratory Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 44. Draper Laboratory Human Organs-on-Chips Product Portfolio

Table 45. Draper Laboratory Recent Developments

Table 46. Mimetas Company Information

Table 47. Mimetas Business Overview

Table 48. Mimetas Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 49. Mimetas Human Organs-on-Chips Product Portfolio

Table 50. Mimetas Recent Developments

Table 51. Nortis Company Information

Table 52. Nortis Business Overview

Table 53. Nortis Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 54. Nortis Human Organs-on-Chips Product Portfolio

Table 55. Nortis Recent Developments

Table 56. Micronit Microtechnologies B.V. Company Information

Table 57. Micronit Microtechnologies B.V. Business Overview

Table 58. Micronit Microtechnologies B.V. Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 59. Micronit Microtechnologies B.V. Human Organs-on-Chips Product Portfolio

Table 60. Micronit Microtechnologies B.V. Recent Developments

Table 61. Kirkstall Company Information

Table 62. Kirkstall Business Overview

Table 63. Kirkstall Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 64. Kirkstall Human Organs-on-Chips Product Portfolio

Table 65. Kirkstall Recent Developments

Table 66. Cherry Biotech SAS Company Information

Table 67. Cherry Biotech SAS Business Overview

Table 68. Cherry Biotech SAS Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 69. Cherry Biotech SAS Human Organs-on-Chips Product Portfolio

Table 70. Cherry Biotech SAS Recent Developments

Table 71. Else Kooi Laboratory Company Information

Table 72. Else Kooi Laboratory Business Overview

Table 73. Else Kooi Laboratory Human Organs-on-Chips Sales (K Units), Revenue (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 74. Else Kooi Laboratory Human Organs-on-Chips Product Portfolio

Table 75. Else Kooi Laboratory Recent Developments

Table 76. Global Human Organs-on-Chips Market Size by Region (US\$ Million): 2018 VS 2022 VS 2029

Table 77. Global Human Organs-on-Chips Sales by Region (2018-2023) & (K Units)

Table 78. Global Human Organs-on-Chips Sales Market Share by Region (2018-2023)

Table 79. Global Human Organs-on-Chips Sales by Region (2024-2029) & (K Units)

Table 80. Global Human Organs-on-Chips Sales Market Share by Region (2024-2029)

Table 81. Global Human Organs-on-Chips Revenue by Region (2018-2023) & (US\$ Million)

Table 82. Global Human Organs-on-Chips Revenue Market Share by Region (2018-2023)

Table 83. Global Human Organs-on-Chips Revenue by Region (2024-2029) & (US\$ Million)

Table 84. Global Human Organs-on-Chips Revenue Market Share by Region (2024-2029)

Table 85. North America Human Organs-on-Chips Revenue by Country: 2018 VS 2022 VS 2029 (US\$ Million)

Table 86. North America Human Organs-on-Chips Sales by Country (2018-2023) & (K Units)

Table 87. North America Human Organs-on-Chips Sales by Country (2024-2029) & (K

Units)

Table 88. North America Human Organs-on-Chips Revenue by Country (2018-2023) & (US\$ Million)

Table 89. North America Human Organs-on-Chips Revenue by Country (2024-2029) & (US\$ Million)

Table 90. Europe Human Organs-on-Chips Revenue by Country: 2018 VS 2022 VS 2029 (US\$ Million)

Table 91. Europe Human Organs-on-Chips Sales by Country (2018-2023) & (K Units)

Table 92. Europe Human Organs-on-Chips Sales by Country (2024-2029) & (K Units)

Table 93. Europe Human Organs-on-Chips Revenue by Country (2018-2023) & (US\$ Million)

Table 94. Europe Human Organs-on-Chips Revenue by Country (2024-2029) & (US\$ Million)

Table 95. Asia Pacific Human Organs-on-Chips Revenue by Country: 2018 VS 2022 VS 2029 (US\$ Million)

Table 96. Asia Pacific Human Organs-on-Chips Sales by Country (2018-2023) & (K Units)

Table 97. Asia Pacific Human Organs-on-Chips Sales by Country (2024-2029) & (K Units)

Table 98. Asia Pacific Human Organs-on-Chips Revenue by Country (2018-2023) & (US\$ Million)

Table 99. Asia Pacific Human Organs-on-Chips Revenue by Country (2024-2029) & (US\$ Million)

Table 100. Latin America Human Organs-on-Chips Revenue by Country: 2018 VS 2022 VS 2029 (US\$ Million)

Table 101. Latin America Human Organs-on-Chips Sales by Country (2018-2023) & (K Units)

Table 102. Latin America Human Organs-on-Chips Sales by Country (2024-2029) & (K Units)

Table 103. Latin America Human Organs-on-Chips Revenue by Country (2018-2023) & (US\$ Million)

Table 104. Latin America Human Organs-on-Chips Revenue by Country (2024-2029) & (US\$ Million)

Table 105. Middle East and Africa Human Organs-on-Chips Revenue by Country: 2018 VS 2022 VS 2029 (US\$ Million)

Table 106. Middle East and Africa Human Organs-on-Chips Sales by Country (2018-2023) & (K Units)

Table 107. Middle East and Africa Human Organs-on-Chips Sales by Country (2024-2029) & (K Units)

Table 108. Middle East and Africa Human Organs-on-Chips Revenue by Country (2018-2023) & (US\$ Million)

Table 109. Middle East and Africa Human Organs-on-Chips Revenue by Country (2024-2029) & (US\$ Million)

Table 110. Global Human Organs-on-Chips Sales by Type (2018-2023) & (K Units)

Table 111. Global Human Organs-on-Chips Sales by Type (2024-2029) & (K Units)

Table 112. Global Human Organs-on-Chips Sales Market Share by Type (2018-2023)

Table 113. Global Human Organs-on-Chips Sales Market Share by Type (2024-2029)

Table 114. Global Human Organs-on-Chips Revenue by Type (2018-2023) & (US\$ Million)

Table 115. Global Human Organs-on-Chips Revenue by Type (2024-2029) & (US\$ Million)

Table 116. Global Human Organs-on-Chips Revenue Market Share by Type (2018-2023)

Table 117. Global Human Organs-on-Chips Revenue Market Share by Type (2024-2029)

Table 118. Global Human Organs-on-Chips Price by Type (2018-2023) & (US\$/Unit)

Table 119. Global Human Organs-on-Chips Price by Type (2024-2029) & (US\$/Unit)

Table 120. Global Human Organs-on-Chips Sales by End User (2018-2023) & (K Units)

Table 121. Global Human Organs-on-Chips Sales by End User (2024-2029) & (K Units)

Table 122. Global Human Organs-on-Chips Sales Market Share by End User (2018-2023)

Table 123. Global Human Organs-on-Chips Sales Market Share by End User (2024-2029)

Table 124. Global Human Organs-on-Chips Revenue by End User (2018-2023) & (US\$ Million)

Table 125. Global Human Organs-on-Chips Revenue by End User (2024-2029) & (US\$ Million)

Table 126. Global Human Organs-on-Chips Revenue Market Share by End User (2018-2023)

Table 127. Global Human Organs-on-Chips Revenue Market Share by End User (2024-2029)

Table 128. Global Human Organs-on-Chips Price by End User (2018-2023) & (US\$/Unit)

Table 129. Global Human Organs-on-Chips Price by End User (2024-2029) & (US\$/Unit)

Table 130. Key Raw Materials

Table 131. Raw Materials Key Suppliers

Table 132. Human Organs-on-Chips Distributors List

- Table 133. Human Organs-on-Chips Customers List
- Table 134. Human Organs-on-Chips Industry Trends
- Table 135. Human Organs-on-Chips Industry Drivers
- Table 136. Human Organs-on-Chips Industry Restraints
- Table 137. Authors List of This Report

List Of Figures

LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Human Organs-on-Chips Product Picture
- Figure 5. Global Human Organs-on-Chips Revenue (US\$ Million), 2018 VS 2022 VS 2029
- Figure 6. Global Human Organs-on-Chips Market Size (2018-2029) & (US\$ Million)
- Figure 7. Global Human Organs-on-Chips Sales (2018-2029) & (K Units)
- Figure 8. Global Human Organs-on-Chips Average Price (US\$/Unit) & (2018-2029)
- Figure 9. Brain-on-a-chip Product Picture
- Figure 10. Liver-on-a-chip Product Picture
- Figure 11. Kidney-on-a-chip Product Picture
- Figure 12. Lung-on-a-chip Product Picture
- Figure 13. Heart-on-a-chip Product Picture
- Figure 14. Intestine-on-a-chip Product Picture
- Figure 15. Vessel-on-a-chip Product Picture
- Figure 16. Other Organs Product Picture
- Figure 17. Pharmaceutical & Biotechnology Companies Product Picture
- Figure 18. Academic & Research Institutes Product Picture
- Figure 19. Cosmetics Industry Product Picture
- Figure 20. Others Product Picture
- Figure 21. Global Human Organs-on-Chips Revenue Share by Manufacturers in 2022
- Figure 22. Global Manufacturers of Human Organs-on-Chips, Manufacturing Sites & Headquarters
- Figure 23. Global Manufacturers of Human Organs-on-Chips, Date of Enter into This Industry
- Figure 24. Global Top 5 and 10 Human Organs-on-Chips Players Market Share by Revenue in 2022
- Figure 25. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022
- Figure 26. Global Human Organs-on-Chips Market Size by Region (US\$ Million): 2018 VS 2022 VS 2029
- Figure 27. Global Human Organs-on-Chips Sales by Region in 2022
- Figure 28. Global Human Organs-on-Chips Revenue by Region in 2022
- Figure 29. North America Human Organs-on-Chips Market Size by Country in 2022
- Figure 30. North America Human Organs-on-Chips Sales Market Share by Country

(2018-2029)

Figure 31. North America Human Organs-on-Chips Revenue Market Share by Country (2018-2029)

Figure 32. United States Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 33. Canada Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 34. Europe Human Organs-on-Chips Market Size by Country in 2022

Figure 35. Europe Human Organs-on-Chips Sales Market Share by Country (2018-2029)

Figure 36. Europe Human Organs-on-Chips Revenue Market Share by Country (2018-2029)

Figure 37. Germany Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 38. France Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 39. U.K. Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 40. Italy Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 41. Russia Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 42. Asia Pacific Human Organs-on-Chips Market Size by Country in 2022

Figure 43. Asia Pacific Human Organs-on-Chips Sales Market Share by Country (2018-2029)

Figure 44. Asia Pacific Human Organs-on-Chips Revenue Market Share by Country (2018-2029)

Figure 45. China Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 46. Japan Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 47. South Korea Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 48. India Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 49. Australia Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 50. China Taiwan Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 51. Indonesia Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 52. Thailand Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 53. Malaysia Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 54. Latin America Human Organs-on-Chips Market Size by Country in 2022

Figure 55. Latin America Human Organs-on-Chips Sales Market Share by Country (2018-2029)

Figure 56. Latin America Human Organs-on-Chips Revenue Market Share by Country (2018-2029)

Figure 57. Mexico Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 58. Brazil Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 59. Argentina Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 60. Middle East and Africa Human Organs-on-Chips Market Size by Country in 2022

Figure 61. Middle East and Africa Human Organs-on-Chips Sales Market Share by Country (2018-2029)

Figure 62. Middle East and Africa Human Organs-on-Chips Revenue Market Share by Country (2018-2029)

Figure 63. Turkey Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 64. Saudi Arabia Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 65. UAE Human Organs-on-Chips Revenue Growth Rate (2018-2029) & (US\$ Million)

Figure 66. Global Human Organs-on-Chips Sales Market Share by Type (2018-2029)

Figure 67. Global Human Organs-on-Chips Revenue Market Share by Type (2018-2029)

Figure 68. Global Human Organs-on-Chips Price (US\$/Unit) by Type (2018-2029)

Figure 69. Global Human Organs-on-Chips Sales Market Share by End User (2018-2029)

Figure 70. Global Human Organs-on-Chips Revenue Market Share by End User (2018-2029)

Figure 71. Global Human Organs-on-Chips Price (US\$/Unit) by End User (2018-2029)

Figure 72. Human Organs-on-Chips Value Chain

Figure 73. Human Organs-on-Chips Production Mode & Process

Figure 74. Direct Comparison with Distribution Share

Figure 75. Distributors Profiles

Figure 76. Human Organs-on-Chips Industry Opportunities and Challenges

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