

Organ-on-Chip Market by Type (Heart-on-chip, Human-on-chip, Intestine-on-chip, Kidney-on-chip, Liver-on-chip, and Lung-on-chip) - Global Opportunity Analysis and Industry Forecast, 2017-2023

<https://marketpublishers.com/r/OB4025DEA3AEN.html>

Date: November 2017

Pages: 129

Price: US\$ 5,540.00 (Single User License)

ID: OB4025DEA3AEN

Abstracts

Organ-on-chip a multichannel 3D micro-fluidic cell culture device, which simulates activities, mechanisms, and physiological responses of human organs. This chip develops a narrow channel for the blood and air flow in organs including lung, gut, liver, heart, and others. This devices is developed on a microchip that contains continuously perfused chambers colonized by living cells arranged to stimulate tissue- and organ-level physiology. It is used to nurture internal organs with the help of silicone.

The growth of the global organ-on-chip market is driven by increase in its applications in the healthcare sector, rise in demand for drug screening, and high demand for lung-based organ culture & kidney applications. However, high cost and nascent stage in R&D restrict the market growth. Conversely, increase in research activities on organ-on-chip is expected to offer ample opportunities to the key players.

The global organ-on-chip market is segmented on the basis of type and geography. Depending on type, the market is divided into heart-on-chip, human-on-chip, intestine-on-chip, kidney-on-chip, liver-on-chip, and lungs-on-chip. Geographically, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Emulate, AxoSim Technologies LLC, CN Bio innovations, Hurel Corporation, Hepregen, Insphero, Mimetas, Nortis, Organovo, and Tara Biosystems are some of the major key players operating in the global organ-on-chip market.

KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global organ-on-chip market along with current trends and future estimations to determine the imminent

investment pockets.

The report presents information regarding key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2016 to 2023 to highlight the financial competency of the industry.

Porter's Five Forces analysis illustrates the potency of the buyers and suppliers in the industry.

KEY MARKET SEGMENTS

By Type

Heart-on-chip

Human-on-chip

Intestine-on-chip

Kidney-on-chip

Liver-on-chip

Lung-on-chip

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Contents

CHAPTER 1 INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS
- 1.3. RESEARCH METHODOLOGY
 - 1.3.1. Primary research
 - 1.3.2. Secondary research
 - 1.3.3. Analyst tools and models
 - 1.3.4. Market segmentation

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1. CXO PERSPECTIVE

CHAPTER 3 MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
 - 3.2.1. Top winning strategies
 - 3.2.2. Top investment pockets
 - 3.2.3. Top impacting factors
 - 3.2.3.1. Surge in application of organ-on-chip devices in the healthcare sector
 - 3.2.3.2. Increase in demand for organ-on-chip in drug screening
 - 3.2.3.3. Rise in demand for lung- & kidney -based organ culture devices
 - 3.2.3.4. High cost of organ-on-chip devices
 - 3.2.3.5. Nascent stage in R&D pertaining to OOCs
 - 3.2.3.6. Increase in research activities on organ-on-chip devices
- 3.3. PORTERS FIVE FORCES
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of substitutes
 - 3.3.4. Threat of new entrants
 - 3.3.5. Competitive rivalry
- 3.4. MARKET PLAYER POSITIONING, 2016
- 3.5. MARKET DYNAMICS
 - 3.5.1. Drivers
 - 3.5.1.1. Surge in application of organ-on-chip devices in the healthcare sector

- 3.5.1.2. Increase in demand for organ-on-chips in drug screening
- 3.5.1.3. Rise in demand for lung- & kidney-based organ culture devices
- 3.5.2. Restraints
 - 3.5.2.1. High costs of organ-on-chip devices
 - 3.5.2.2. Nascent stage in R&D pertaining to OOCs
- 3.5.3. Opportunity
 - 3.5.3.1. Increase in research activities on organ-on-chip devices

CHAPTER 4 ORGAN-ON-CHIP MARKET, BY TYPE

- 4.1. OVERVIEW
- 4.2. HEART-ON-CHIP
 - 4.2.1. Key market trends
 - 4.2.2. Key growth factors and opportunities
 - 4.2.3. Market size and forecast
- 4.3. HUMAN-ON-CHIP
 - 4.3.1. Key market trends
 - 4.3.2. Key growth factors and opportunities
 - 4.3.3. Market size and forecast
- 4.4. INTESTINE-ON-CHIP
 - 4.4.1. Key market trends
 - 4.4.2. Key growth factors and opportunities
 - 4.4.3. Market size and forecast
- 4.5. KIDNEY-ON-CHIP
 - 4.5.1. Key market trends
 - 4.5.2. Key growth factors and opportunities
 - 4.5.3. Market size and forecast
- 4.6. LIVER-ON-CHIP
 - 4.6.1. Key market trends
 - 4.6.2. Key growth factors and opportunities
 - 4.6.3. Market size and forecast
- 4.7. LUNG-ON-CHIP
 - 4.7.1. Key market trends
 - 4.7.2. Key growth factors and opportunities
 - 4.7.3. Market size and forecast

CHAPTER 5 ORGAN-ON-CHIP MARKET, BY GEOGRAPHY

5.1. OVERVIEW

Organ-on-Chip Market by Type (Heart-on-chip, Human-on-chip, Intestine-on-chip, Kidney-on-chip, Liver-on-chip,...

5.2. NORTH AMERICA

5.2.1. Key market trends

5.2.2. Key growth factors and opportunities

5.2.3. Market size and forecast, by type

5.2.4. Market size and forecast, by country

5.2.5. U.S.

5.2.5.1. Market size and forecast

5.2.6. Canada

5.2.6.1. Market size and forecast

5.2.7. Mexico

5.2.7.1. Market size and forecast

5.3. EUROPE

5.3.1. Key market trends

5.3.2. Key growth factors and opportunities

5.3.3. Market size and forecast, by type

5.3.4. Market size and forecast, by country

5.3.5. UK

5.3.5.1. Market size and forecast

5.3.6. Germany

5.3.6.1. Market size and forecast

5.3.7. France

5.3.7.1. Market size and forecast

5.3.8. Rest of Europe

5.3.8.1. Market size and forecast

5.4. ASIA-PACIFIC

5.4.1. Key market trends

5.4.2. Key growth factors and opportunities

5.4.3. Market size and forecast, by type

5.4.4. Market size and forecast, by country

5.4.5. China

5.4.5.1. Market size and forecast

5.4.6. Japan

5.4.6.1. Market size and forecast

5.4.7. India

5.4.7.1. Market size and forecast

5.4.8. Australia

5.4.8.1. Market size and forecast

5.4.9. Rest of Asia-Pacific

5.4.9.1. Market size and forecast

5.5. LAMEA

- 5.5.1. Key market trends
- 5.5.2. Key growth factors and opportunities
- 5.5.3. Market size and forecast, by type
- 5.5.4. Market size and forecast, by region
- 5.5.5. Latin America
 - 5.5.5.1. Market size and forecast
- 5.5.6. Middle East
 - 5.5.6.1. Market size and forecast
- 5.5.7. Africa
 - 5.5.7.1. Market size and forecast

CHAPTER 6 COMPANY PROFILES

6.1. AXOSIM TECHNOLOGIES LLC

- 6.1.1. Company overview
- 6.1.2. Company snapshot
- 6.1.3. Operating business segments
- 6.1.4. Product portfolio

6.2. CN INNOVATIONS HOLDINGS LIMITED (CN BIO INNOVATIONS)

- 6.2.1. Company overview
- 6.2.2. Company snapshot
- 6.2.3. Operating business segments
- 6.2.4. Product portfolio
- 6.2.5. Key strategic moves and developments

6.3. EMULATE, INC.

- 6.3.1. Company overview
- 6.3.2. Company snapshot
- 6.3.3. Operating business segments
- 6.3.4. Product portfolio
- 6.3.5. Key strategic moves and developments

6.4. ASCENDANCE BIOTECHNOLOGY, INC.

- 6.4.1. Company overview
- 6.4.2. Company snapshot
- 6.4.3. Operating business segments
- 6.4.4. Product portfolio
- 6.4.5. Key strategic moves and developments

6.5. HUREL CORPORATION

- 6.5.1. Company overview

- 6.5.2. Company snapshot
- 6.5.3. Operating business segments
- 6.5.4. Product portfolio
- 6.5.5. Key strategic moves and developments
- 6.6. INSPHERO AG
 - 6.6.1. Company overview
 - 6.6.2. Company snapshot
 - 6.6.3. Operating business segments
 - 6.6.4. Product portfolio
 - 6.6.5. Key strategic moves and developments
- 6.7. MIMETAS B.V.
 - 6.7.1. Company overview
 - 6.7.2. Company snapshot
 - 6.7.3. Operating business segments
 - 6.7.4. Product portfolio
 - 6.7.5. Key strategic moves and developments
- 6.8. NORTIS INC.
 - 6.8.1. Company overview
 - 6.8.2. Company snapshot
 - 6.8.3. Operating business segments
 - 6.8.4. Product portfolio
 - 6.8.5. Key strategic moves and developments
- 6.9. ORGANOVO HOLDINGS, INC.
 - 6.9.1. Company overview
 - 6.9.2. Company snapshot
 - 6.9.3. Operating business segments
 - 6.9.4. Product portfolio
 - 6.9.5. Business performance
 - 6.9.6. Key strategic moves and developments
- 6.10. TARA BIOSYSTEMS, INC.
 - 6.10.1. Company overview
 - 6.10.2. Company snapshot
 - 6.10.3. Operating business segments
 - 6.10.4. Product portfolio
 - 6.10.5. Key strategic moves and developments

List Of Tables

LIST OF TABLES

TABLE 1. GLOBAL ORGAN-ON-CHIP MARKET, BY TYPE, 2016-2023 (\$MILLION)
TABLE 2. HEART-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 3. HUMAN-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 4. INTESTINE-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 5. KIDNEY-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 6. LIVER-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 7. LUNG-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 8. ORGAN-ON-CHIP MARKET, BY GEOGRAPHY, 2016-2023 (\$MILLION)
TABLE 9. NORTH AMERICA ORGAN-ON-CHIP MARKET, BY TYPE, 2016-2023 (\$MILLION)
TABLE 10. NORTH AMERICA ORGAN-ON-CHIP MARKET, BY COUNTRY, 2016-2023 (\$MILLION)
TABLE 11. EUROPE ORGAN-ON-CHIP MARKET, BY TYPE, 2016-2023 (\$MILLION)
TABLE 12. EUROPE ORGAN-ON-CHIP MARKET, BY COUNTRY, 2016-2023 (\$MILLION)
TABLE 13. ASIA-PACIFIC ORGAN-ON-CHIP MARKET, BY TYPE, 2016-2023 (\$MILLION)
TABLE 14. ASIA-PACIFIC ORGAN-ON-CHIP MARKET, BY COUNTRY, 2016-2023 (\$MILLION)
TABLE 15. LAMEA ORGAN-ON-CHIP MARKET, BY TYPE, 2016-2023 (\$MILLION)
TABLE 16. LAMEA ORGAN-ON-CHIP MARKET, BY REGION, 2016-2023 (\$MILLION)
TABLE 17. AXOSIM: COMPANY SNAPSHOT
TABLE 18. AXOSIM: OPERATING SEGMENTS
TABLE 19. AXOSIM: PRODUCT PORTFOLIO
TABLE 20. CNI: COMPANY SNAPSHOT
TABLE 21. CNI: OPERATING SEGMENTS
TABLE 22. CNI: PRODUCT PORTFOLIO
TABLE 23. EMULATE: COMPANY SNAPSHOT
TABLE 24. EMULATE: OPERATING SEGMENTS
TABLE 25. EMULATE: PRODUCT PORTFOLIO
TABLE 26. ASCENDANCE: COMPANY SNAPSHOT
TABLE 27. ASCENDANCE: OPERATING SEGMENTS
TABLE 28. ASCENDANCE: PRODUCT PORTFOLIO
TABLE 29. HUREL: COMPANY SNAPSHOT
TABLE 30. HUREL: OPERATING SEGMENTS

TABLE 31. HUREL: PRODUCT PORTFOLIO
TABLE 32. INSPHERO: COMPANY SNAPSHOT
TABLE 33. INSPHERO: OPERATING SEGMENTS
TABLE 34. INSPHERO: PRODUCT PORTFOLIO
TABLE 35. MIMETAS: COMPANY SNAPSHOT
TABLE 36. MIMETAS: OPERATING SEGMENTS
TABLE 37. MIMETAS: PRODUCT PORTFOLIO
TABLE 38. NORTIS: COMPANY SNAPSHOT
TABLE 39. NORTIS: OPERATING SEGMENTS
TABLE 40. NORTIS: PRODUCT PORTFOLIO
TABLE 41. ORGANOVO: COMPANY SNAPSHOT
TABLE 42. ORGANOVO: OPERATING SEGMENTS
TABLE 43. ORGANOVO: PRODUCT PORTFOLIO
TABLE 44. TARA BIOSYSTEMS: COMPANY SNAPSHOT
TABLE 45. TARA BIOSYSTEMS: OPERATING SEGMENTS
TABLE 46. TARA BIOSYSTEMS: PRODUCT PORTFOLIO

List Of Figures

LIST OF FIGURES

- FIGURE 1. ORGAN-ON-CHIP MARKET SEGMENTATION
- FIGURE 2. EXECUTIVE SUMMARY
- FIGURE 3. TOP WINNING STRATEGIES, 2015-2017 (%)
- FIGURE 4. TOP WINNING STRATEGIES, 2015-2017
- FIGURE 5. TOP INVESTMENT POCKETS
- FIGURE 6. TOP IMPACTING FACTORS (2016 - 2023)
- FIGURE 7. HIGH BARGAINING POWER OF SUPPLIERS
- FIGURE 8. LOW-TO-MODERATE BARGAINING POWER OF BUYERS
- FIGURE 9. MODERATE-TO-HIGH THREAT OF SUBSTITUTES
- FIGURE 10. MODERATE-TO-HIGH THREAT OF NEW ENTRANTS
- FIGURE 11. MODERATE COMPETITIVE RIVALRY
- FIGURE 12. KEY PLAYER POSITIONING OF ORGAN-ON-CHIP COMPANIES, 2016
- FIGURE 13. DRIVERS, RESTRAINTS, AND OPPORTUNITIES
- FIGURE 14. GLOBAL ORGAN-ON-CHIP MARKET, BY TYPE
- FIGURE 15. ORGAN-ON-CHIP MARKET SHARE AND CAGR, BY GEOGRAPHY
- FIGURE 16. NORTH AMERICA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 17. U.S. ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 18. CANADA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 19. MEXICO ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 20. EUROPE ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 21. UK ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 22. GERMANY ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 23. FRANCE ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 24. REST OF EUROPE ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 25. ASIA-PACIFIC ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 26. CHINA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 27. JAPAN ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 28. INDIA ORGAN-ON-CHIP MARKET, 2016-2023 (MILLION)
- FIGURE 29. AUSTRALIA ORGAN-ON-CHIP MARKET, 2016-2023 (MILLION)
- FIGURE 30. REST OF ASIA-PACIFIC ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 31. LAMEA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 32. LATIN AMERICA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 33. MIDDLE EAST ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)
- FIGURE 34. AFRICA ORGAN-ON-CHIP MARKET, 2016-2023 (\$MILLION)

FIGURE 35. ORGANOVO: NET SALES, 2014-2016 (\$MILLION)

I would like to order

Product name: Organ-on-Chip Market by Type (Heart-on-chip, Human-on-chip, Intestine-on-chip, Kidney-on-chip, Liver-on-chip, and Lung-on-chip) - Global Opportunity Analysis and Industry Forecast, 2017-2023

Product link: <https://marketpublishers.com/r/OB4025DEA3AEN.html>

Price: US\$ 5,540.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/OB4025DEA3AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970