

Organ-on-a-Chip Market in Southeast Asia - Industry Outlook and Forecast 2020-2026

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Abstracts

An organ-on-a-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-a-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-a-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.

This report contains market size and forecasts of Organ-on-a-Chip in Southeast Asia,

including the following market information:

Southeast Asia Organ-on-a-Chip Market Revenue, 2015-2020, 2021-2026, (\$ millions)

Top Five Competitors in Southeast Asia Organ-on-a-Chip Market 2019 (%)

The global Organ-on-a-Chip market was valued at 30 million in 2019 and is projected to reach US\$ 109.6 million by 2026, at a CAGR of 38.2% during the forecast period. While the Organ-on-a-Chip market size in Southeast Asia was US\$ XX million in 2019, and it is expected to reach US\$ XX million by the end of 2026, with a CAGR of XX% during 2020-2026.

COVID-19 pandemic has big impact on Organ-on-a-Chip businesses, with lots of challenges and uncertainty faced by many players of Organ-on-a-Chip in Southeast Asia. This report also analyses and evaluates the COVID-19 impact on Organ-on-a-Chip market size in 2020 and the next few years in Southeast Asia

Total Market by Segment:

Southeast Asia Organ-on-a-Chip Market, By Type, 2015-2020, 2021-2026 (\$ millions)

Southeast Asia Organ-on-a-Chip Market Segment Percentages, By Type, 2019 (%)

Liver-on-a-chip

Kidney-on-a-chip

Lung-on-a-chip

Heart-on-a-chip

Intestine-on-a-chip

Brain-on-a-chip

Other Organs

Southeast Asia Organ-on-a-Chip Market, By Application, 2015-2020, 2021-2026 (\$ millions)

Southeast Asia Organ-on-a-Chip Market Segment Percentages, By Application, 2019 (%)

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Cosmetics Industry

Other End Users

Competitor Analysis

The report also provides analysis of leading market participants including:

Total Organ-on-a-Chip Market Competitors Revenues in Southeast Asia, by Players 2015-2020 (Estimated), (\$ millions)

Total Organ-on-a-Chip Market Competitors Revenues Share in Southeast Asia, by Players 2019 (%)

Further, the report presents profiles of competitors in the market, including the following:

Emulate

TissUse

Hesperos

CN Bio Innovations

Tara Biosystems

Draper Laboratory

Mimetas

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Organ-on-a-Chip Market Definition
- 1.2 Market Segments
 - 1.2.1 Segment by Type
 - 1.2.2 Segment by Application
- 1.3 COVID-19 Impact: Southeast Asia Organ-on-a-Chip Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 SOUTHEAST ASIA ORGAN-ON-A-CHIP OVERALL MARKET SIZE

- 2.1 Southeast Asia Organ-on-a-Chip Market Size: 2020 VS 2026
- 2.2 Southeast Asia Organ-on-a-Chip Revenue, Prospects & Forecasts: 2015-2026

3 COMPANY LANDSCAPE

- 3.1 Top Organ-on-a-Chip Players in Southeast Asia (including Foreign and Local Companies)
- 3.2 Top Southeast Asia Organ-on-a-Chip Companies Ranked by Revenue
- 3.3 Southeast Asia Organ-on-a-Chip Revenue by Companies (including Foreign and Local Companies)
- 3.4 Top 3 and Top 5 Organ-on-a-Chip Companies in Southeast Asia, by Revenue in 2019
- 3.5 Southeast Asia Manufacturers Organ-on-a-Chip Product Type
- 3.6 Tier 1, Tier 2 and Tier 3 Organ-on-a-Chip Players in Southeast Asia
 - 3.6.1 List of Southeast Asia Tier 1 Organ-on-a-Chip Companies
 - 3.6.2 List of Southeast Asia Tier 2 and Tier 3 Organ-on-a-Chip Companies

4 SIGHTS BY PRODUCT

- 4.1 Overview
 - 4.1.1 By Type - Southeast Asia Organ-on-a-Chip Market Size Markets, 2020 & 2026

- 4.1.2 Liver-on-a-chip
- 4.1.3 Kidney-on-a-chip
- 4.1.4 Lung-on-a-chip
- 4.1.5 Heart-on-a-chip
- 4.1.6 Intestine-on-a-chip
- 4.1.7 Brain-on-a-chip
- 4.1.8 Other Organs
- 4.2 By Type - Southeast Asia Organ-on-a-Chip Revenue & Forecasts
 - 4.2.1 By Type - Southeast Asia Organ-on-a-Chip Revenue, 2015-2020
 - 4.2.2 By Type - Southeast Asia Organ-on-a-Chip Revenue, 2021-2026
 - 4.2.3 By Type - Southeast Asia Organ-on-a-Chip Revenue Market Share, 2015-2026

5 SIGHTS BY APPLICATION

- 5.1 Overview
 - 5.1.1 By Application - Southeast Asia Organ-on-a-Chip Market Size, 2020 & 2026
 - 5.1.2 Pharmaceutical and Biotechnology Companies
 - 5.1.3 Academic and Research Institutes
 - 5.1.4 Cosmetics Industry
 - 5.1.5 Other End Users
- 5.2 By Application - Southeast Asia Organ-on-a-Chip Revenue & Forecasts
 - 5.2.1 By Application - Southeast Asia Organ-on-a-Chip Revenue, 2015-2020
 - 5.2.2 By Application - Southeast Asia Organ-on-a-Chip Revenue, 2021-2026
 - 5.2.3 By Application - Southeast Asia Organ-on-a-Chip Revenue Market Share, 2015-2026

6 PLAYERS PROFILES

- 6.1 Emulate
 - 6.1.1 Emulate Corporate Summary
 - 6.1.2 Emulate Business Overview
 - 6.1.3 Emulate Organ-on-a-Chip Major Product Offerings
 - 6.1.4 Emulate Revenue in Southeast Asia (2015-2020)
 - 6.1.5 Emulate Key News
- 6.2 TissUse
 - 6.2.1 TissUse Corporate Summary
 - 6.2.2 TissUse Business Overview
 - 6.2.3 TissUse Organ-on-a-Chip Major Product Offerings
 - 6.2.4 TissUse Revenue in Southeast Asia (2015-2020)

- 6.2.5 TissUse Key News
- 6.3 Hesperos
 - 6.3.1 Hesperos Corporate Summary
 - 6.3.2 Hesperos Business Overview
 - 6.3.3 Hesperos Organ-on-a-Chip Major Product Offerings
 - 6.3.4 Hesperos Revenue in Southeast Asia (2015-2020)
 - 6.3.5 Hesperos Key News
- 6.4 CN Bio Innovations
 - 6.4.1 CN Bio Innovations Corporate Summary
 - 6.4.2 CN Bio Innovations Business Overview
 - 6.4.3 CN Bio Innovations Organ-on-a-Chip Major Product Offerings
 - 6.4.4 CN Bio Innovations Revenue in Southeast Asia (2015-2020)
 - 6.4.5 CN Bio Innovations Key News
- 6.5 Tara Biosystems
 - 6.5.1 Tara Biosystems Corporate Summary
 - 6.5.2 Tara Biosystems Business Overview
 - 6.5.3 Tara Biosystems Organ-on-a-Chip Major Product Offerings
 - 6.5.4 Tara Biosystems Revenue in Southeast Asia (2015-2020)
 - 6.5.5 Tara Biosystems Key News
- 6.6 Draper Laboratory
 - 6.6.1 Draper Laboratory Corporate Summary
 - 6.6.2 Draper Laboratory Business Overview
 - 6.6.3 Draper Laboratory Organ-on-a-Chip Major Product Offerings
 - 6.6.4 Draper Laboratory Revenue in Southeast Asia (2015-2020)
 - 6.6.5 Draper Laboratory Key News
- 6.7 Mimetas
 - 6.6.1 Mimetas Corporate Summary
 - 6.6.2 Mimetas Business Overview
 - 6.6.3 Mimetas Organ-on-a-Chip Major Product Offerings
 - 6.4.4 Mimetas Revenue in Southeast Asia (2015-2020)
 - 6.7.5 Mimetas Key News
- 6.8 Nortis
 - 6.8.1 Nortis Corporate Summary
 - 6.8.2 Nortis Business Overview
 - 6.8.3 Nortis Organ-on-a-Chip Major Product Offerings
 - 6.8.4 Nortis Revenue in Southeast Asia (2015-2020)
 - 6.8.5 Nortis Key News
- 6.9 Micronit Microtechnologies B.V.
 - 6.9.1 Micronit Microtechnologies B.V. Corporate Summary

- 6.9.2 Micronit Microtechnologies B.V. Business Overview
- 6.9.3 Micronit Microtechnologies B.V. Organ-on-a-Chip Major Product Offerings
- 6.9.4 Micronit Microtechnologies B.V. Revenue in Southeast Asia (2015-2020)
- 6.9.5 Micronit Microtechnologies B.V. Key News
- 6.10 Kirkstall
 - 6.10.1 Kirkstall Corporate Summary
 - 6.10.2 Kirkstall Business Overview
 - 6.10.3 Kirkstall Organ-on-a-Chip Major Product Offerings
 - 6.10.4 Kirkstall Revenue in Southeast Asia (2015-2020)
 - 6.10.5 Kirkstall Key News
- 6.11 Cherry Biotech SAS
 - 6.11.1 Cherry Biotech SAS Corporate Summary
 - 6.11.2 Cherry Biotech SAS Organ-on-a-Chip Business Overview
 - 6.11.3 Cherry Biotech SAS Organ-on-a-Chip Major Product Offerings
 - 6.11.4 Cherry Biotech SAS Revenue in Southeast Asia (2015-2020)
 - 6.11.5 Cherry Biotech SAS Key News
- 6.12 Else Kooi Laboratory
 - 6.12.1 Else Kooi Laboratory Corporate Summary
 - 6.12.2 Else Kooi Laboratory Organ-on-a-Chip Business Overview
 - 6.12.3 Else Kooi Laboratory Organ-on-a-Chip Major Product Offerings
 - 6.12.4 Else Kooi Laboratory Revenue in Southeast Asia (2015-2020)
 - 6.12.5 Else Kooi Laboratory Key News

7 KEY MARKET TRENDS & INFLUENCES 2021-2026

- 7.1 PESTLE Analysis for Southeast Asia Organ-on-a-Chip Market
- 7.2 Market Opportunities & Trends
- 7.3 Market Drivers
- 7.4 Market Restraints

8 CONCLUSION

9 APPENDIX

- 9.1 Note
- 9.2 Examples of Clients
- 9.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Organ-on-a-Chip in Southeast Asia

Table 2. Top Players in Southeast Asia, Ranking by Revenue (2019)

Table 3. Southeast Asia Organ-on-a-Chip Revenue by Companies, (US\$, Mn), 2015-2020

Table 4. Southeast Asia Organ-on-a-Chip Revenue Share by Companies, 2015-2020

Table 5. Southeast Asia Organ-on-a-Chip Sales by Companies, (K Units), 2015-2020

Table 6. Southeast Asia Organ-on-a-Chip Sales Share by Companies, 2015-2020

Table 7. Key Manufacturers Organ-on-a-Chip Price (2015-2020) (US\$/Unit)

Table 8. Southeast Asia Manufacturers Organ-on-a-Chip Product Type

Table 9. List of Southeast Asia Tier 1 Organ-on-a-Chip Companies, Revenue (US\$, Mn) in 2019 and Market Share

Table 10. List of Southeast Asia Tier 2 and Tier 3 Organ-on-a-Chip Companies, Revenue (US\$, Mn) in 2019 and Market Share

Table 11. By Type - Organ-on-a-Chip Revenue in Southeast Asia (US\$, Mn), 2015-2020

Table 12. By Type - Organ-on-a-Chip Revenue in Southeast Asia (US\$, Mn), 2021-2026

Table 13. By Type - Organ-on-a-Chip Sales in Southeast Asia (K Units), 2015-2020

Table 14. By Type - Organ-on-a-Chip Sales in Southeast Asia (K Units), 2021-2026

Table 15. By Application - Organ-on-a-Chip Revenue in Southeast Asia, (US\$, Mn), 2015-2020

Table 16. By Application - Organ-on-a-Chip Revenue in Southeast Asia, (US\$, Mn), 2021-2026

Table 17. By Application - Organ-on-a-Chip Sales in Southeast Asia, (K Units), 2015-2020

Table 18. By Application - Organ-on-a-Chip Sales in Southeast Asia, (K Units), 2021-2026

Table 19. Emulate Corporate Summary

Table 20. Emulate Organ-on-a-Chip Product Offerings

Table 21. Emulate Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)

Table 22. TissUse Corporate Summary

Table 23. TissUse Organ-on-a-Chip Product Offerings

Table 24. TissUse Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)

Table 25. Hesperos Corporate Summary

Table 26. Hesperos Organ-on-a-Chip Product Offerings

- Table 27. Hesperos Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 28. CN Bio Innovations Corporate Summary
- Table 29. CN Bio Innovations Organ-on-a-Chip Product Offerings
- Table 30. CN Bio Innovations Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 31. Tara Biosystems Corporate Summary
- Table 32. Tara Biosystems Organ-on-a-Chip Product Offerings
- Table 33. Tara Biosystems Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 34. Draper Laboratory Corporate Summary
- Table 35. Draper Laboratory Organ-on-a-Chip Product Offerings
- Table 36. Draper Laboratory Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 37. Mimetas Corporate Summary
- Table 38. Mimetas Organ-on-a-Chip Product Offerings
- Table 39. Mimetas Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 40. Nortis Corporate Summary
- Table 41. Nortis Organ-on-a-Chip Product Offerings
- Table 42. Nortis Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 43. Micronit Microtechnologies B.V. Corporate Summary
- Table 44. Micronit Microtechnologies B.V. Organ-on-a-Chip Product Offerings
- Table 45. Micronit Microtechnologies B.V. Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 46. Kirkstall Corporate Summary
- Table 47. Kirkstall Organ-on-a-Chip Product Offerings
- Table 48. Kirkstall Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 49. Cherry Biotech SAS Corporate Summary
- Table 50. Cherry Biotech SAS Organ-on-a-Chip Product Offerings
- Table 51. Cherry Biotech SAS Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)
- Table 52. Else Kooi Laboratory Corporate Summary
- Table 53. Else Kooi Laboratory Organ-on-a-Chip Product Offerings
- Table 54. Else Kooi Laboratory Organ-on-a-Chip Revenue (US\$, Mn), (2015-2020)

List Of Figures

LIST OF FIGURES

- Figure 1. Organ-on-a-Chip Segment by Type
- Figure 2. Organ-on-a-Chip Segment by Application
- Figure 3. Southeast Asia Organ-on-a-Chip Market Overview: 2020
- Figure 4. Key Caveats
- Figure 5. Organ-on-a-Chip Market Size in Southeast Asia, (US\$, Mn): 2020 VS 2026
- Figure 6. Southeast Asia Organ-on-a-Chip Revenue, 2015-2026 (US\$, Mn)
- Figure 7. The Top 3 and 5 Players Market Share by Organ-on-a-Chip Revenue in 2019
- Figure 8. By Type - Southeast Asia Organ-on-a-Chip Incremental Growth, (US\$, Mn), 2015-2026
- Figure 9. By Type - Southeast Asia Organ-on-a-Chip Market Share, 2015-2026
- Figure 10. By Application - Organ-on-a-Chip Revenue in Southeast Asia (US\$, Mn), 2020 & 2026
- Figure 11. By Application - Southeast Asia Organ-on-a-Chip Market Share, 2015-2026
- Figure 12. PEST Analysis for Southeast Asia Organ-on-a-Chip Market in 2020
- Figure 13. Organ-on-a-Chip Market Opportunities & Trends in Southeast Asia
- Figure 14. Organ-on-a-Chip Market Drivers in Southeast Asia

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