

Organ-On-Chip Market by Organ Type (Liver, Kidney, Intestine, Lung, Heart), Products (Instruments, Consumable, Software), Services (Standard, Custom), Model Type, Application (Toxicology, Drug Discovery, Stem Cell), Purpose - Global Forecast to 2029

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Abstracts

The organ-on-chip market is expected to reach USD 631,073 thousand by 2029 from USD 123,285 thousand in 2024, at a CAGR of 38.6% during the forecast period. The key factors driving the growth of the organ-on-chip market include growing awareness towards the development of alternative methods for animal model-based drug testing and increasing funding from government and private institutions for innovating in the organ-on-chip market. Developments in the field of bio fabrication and microfluidics also contribute to the growth of this market.

The organ-on-chip market has been segmented based on organ type, model type, product and service, application, purpose, and end-user.

“By model type, organ-based model segment accounted for the largest share of the organ-on-chip market”

Based on model type, the organ-on-chip market is categorized into organ-based model and disease-based models. In 2023, organ-based model accounted for the largest share of the market owing to factors such as greater accuracy offered by organ-based organ-on-chip models along with the growing ethical concerns regarding the use of animals for drug testing among other factors.

“By organ type, the liver-on-chip segment accounted for the largest share in the organ-on-chip market”

Based on organ type, the organ-on-chip market is segmented into liver, kidney, lung, heart, intestine and other organs. In 2023, the liver-on-chip segment accounted for a largest share of the organ-on-chip market. Growth in this market segment can be attributed to the significance of liver in drug metabolism and focus of pharmaceutical and biotechnology companies on developing new drugs which are tested for human hepatocytic toxicity on liver-on-chip models.

“North America: accounted for the largest share of the organ-on-chip market”

North America accounted for the largest share of the organ-on-chip market. The large share of the North America region can be attributed to increased government and private institution funding and increasing initiatives to grow awareness and promote adoption of this technology as a substitute to animal testing. Besides, the North America region has a well-established healthcare infrastructure which further supports the growth of this market. Also, presence of several market players in the region is another key factor supporting market growth. Some examples of these players include Emulate, Inc. (US), Obatala Sciences (US), SynVivo, Inc. (US), Nortis, Inc. (US) Axosim (US), among others.

“Europe: The second-largest region in the organ-on-chip market.”

The Europe organ-on-chip market is the second largest market for organ-on-chip. This is attributed to one of the major factors including the growing initiatives for advancements of organ-on-chip technologies, increasing use of advanced technologies such as artificial intelligence for drug development and testing. Collaboration and support offered by the government bodies and private institutions also aid in the growth of this market.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: Managers - 45%, Directors- 30%, and Executives - 25%

By Country: North America- 40%, Europe- 30%, Asia Pacific- 20%, Latin America- 5%, and Middle East and Africa- 5%

Prominent Players

Emulate, Inc. (US)

MIMETAS B.V. (Netherlands)

TissUse GmbH (Germany)

Insphero (Switzerland)

CN Bio Innovations Ltd (UK)

Dynamic42 GmbH (Germany)

React4Life (Italy)

Biomimx S.R.L (Italy)

Netri (France)

SynVivo, Inc. (US)

Nortis, Inc. (US)

Axosim (US)

Obatala Sciences (US)

AlveoliX AG (Switzerland)

Beonchip (Spain)

Initio Cell (Netherlands)

Netri SAS (France)

Hesperos, Inc. (US)

Lena Biosciences (US)

RevivoCell (UK)

Altis Biosystems (US)

Bi/ond (Netherlands)

Cherry Biotech (France)

Fluigent (France)

Elvesys (France)

Research Coverage:

This report provides a detailed picture of the organ-on-chip market. It aims at estimating the size and future growth potential of the market across different segments, such as the organ type, model type, product and service, application, purpose, end user and region (North America, Europe, Asia Pacific, Latin America, Middle East and Africa). The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the organ-on-chip market and its segments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, trends, opportunities, and challenges.

The report provides insights on the following pointers”

Analysis of key drivers (development of alternative drug testing methods), opportunities (Development of multi-organ-chips and extended application in cosmetic and food industry), restraint (limited use of technology in preclinical phase) and challenges (low throughput and scalability) influencing the growth of

the organ-on-chip market.

Product Development/ Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the organ-on-chip market.

Market Development: Comprehensive information about lucrative markets- the report analyses the organ-on-chip market across varied regions.

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the organ-on-chip market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and product and service offerings of leading players.

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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