

# Global Organ On Chip Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Organ On Chip market size was valued at USD 91 million in 2023 and is forecast to a readjusted size of USD 564.1 million by 2030 with a CAGR of 29.9% 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 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.

Global organ on chip key players include Emulate, TissUse, Mimetas, CN Bio Innovations, Valo Health, etc. Global top 5 manufacturers hold a share about 58%.

North America is the largest market, with a share about 42%, followed by Europe and Asia-Pacific, both have a share about 50 percent.

In terms of product, Liver-on-a-chip is the largest segment, with a share about 26%. And in terms of application, the largest application is pharmaceutical & biotechnology companies, followed by academic & research institutes.

The Global Info Research report includes an overview of the development of the Organ On Chip industry chain, the market status of Pharmaceutical & Biotechnology Companies (Brain-on-a-chip, Liver-on-a-chip), Academic & Research Institutes (Brain-on-a-chip, Liver-on-a-chip), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Organ On Chip.

Regionally, the report analyzes the Organ On Chip markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Organ On Chip market, with robust domestic demand, supportive policies, and a strong manufacturing base.

**Key Features:**

The report presents comprehensive understanding of the Organ On Chip market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Organ On Chip industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Brain-on-a-

chip, Liver-on-a-chip).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Organ On Chip market.

**Regional Analysis:** The report involves examining the Organ On Chip market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Organ On Chip market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Organ On Chip:

**Company Analysis:** Report covers individual Organ On Chip players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Organ On Chip This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by End User (Pharmaceutical & Biotechnology Companies, Academic & Research Institutes).

**Technology Analysis:** Report covers specific technologies relevant to Organ On Chip. It assesses the current state, advancements, and potential future developments in Organ On Chip areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Organ On Chip market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Organ On Chip market is split by Type and by End User. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by End User in terms of value.

### Market 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

### Market segment by End User

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

### Market segment by players, this report covers

Emulate

Mimetas

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, Inc.

Beijing Daxiang Biotech

Market segment by regions, regional analysis covers

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, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

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

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Organ On Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Organ On Chip, with revenue, gross margin and global market share of Organ On Chip from 2019 to 2024.

Chapter 3, the Organ On Chip 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 application, with consumption value and growth rate by Type, application, from 2019 to 2030.

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 2019 to 2024. and Organ On Chip market forecast, by regions, type and end user, with consumption value, from 2025 to 2030.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Organ On Chip.

Chapter 13, to describe Organ On Chip research findings and conclusion.

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