

# Global Organ-On-Chip (OOC) Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Organ-On-Chip (OOC) market size is expected to reach \$ 563.3 million by 2029, rising at a market growth of 29.9% CAGR during the forecast period (2023-2029).

Global main manufacturers of organ-on-chip include Emulate, Mimetas and TissUse, etc. The top three players hold a share about 40%. The global organ-on-chip is mainly produced in United States and Europe, they occupied for a share over 80%. North America is the largest market, has a share about 43%, followed by Europe and Japan, with share 37% and 8%, separately.

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.

This report studies the global Organ-On-Chip (OOC) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Organ-On-Chip (OOC), and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Organ-On-Chip (OOC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Organ-On-Chip (OOC) total market, 2018-2029, (USD Million)

Global Organ-On-Chip (OOC) total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Organ-On-Chip (OOC) total market, key domestic companies and share, (USD Million)

Global Organ-On-Chip (OOC) revenue by player and market share 2018-2023, (USD Million)

Global Organ-On-Chip (OOC) total market by Type, CAGR, 2018-2029, (USD Million)

Global Organ-On-Chip (OOC) total market by Application, CAGR, 2018-2029, (USD Million)

This reports profiles major players in the global Organ-On-Chip (OOC) market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emulate, Mimetas, TissUse, Valo Health, CN Bio Innovations,

Hesperos, Draper Laboratory, Nortis and Micronit Microtechnologies B.V., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Organ-On-Chip (OOC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Organ-On-Chip (OOC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Organ-On-Chip (OOC) Market, Segmentation 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

Others

#### Global Organ-On-Chip (OOC) Market, Segmentation by Application

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

#### Companies Profiled:

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

## Key Questions Answered

1. How big is the global Organ-On-Chip (OOC) market?
2. What is the demand of the global Organ-On-Chip (OOC) market?
3. What is the year over year growth of the global Organ-On-Chip (OOC) market?
4. What is the total value of the global Organ-On-Chip (OOC) market?
5. Who are the major players in the global Organ-On-Chip (OOC) market?
6. What are the growth factors driving the market demand?

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