

Global Organ-On-Chip Production, Demand and Key Producers, 2022-2028

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Abstracts

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 production, demand, key manufacturers,

and key regions.

This report is a detailed and comprehensive analysis of the world market for Organ-On-Chip, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of Organ-On-Chip that contribute to its increasing demand across many markets.

The global Organ-On-Chip market size is expected to reach \$ 424.8 million by 2028, rising at a market growth of 31.6% CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global Organ-On-Chip total production and demand, 2017-2028, (K Units)

Global Organ-On-Chip total production value, 2017-2028, (USD Million)

Global Organ-On-Chip production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (K Units)

Global Organ-On-Chip consumption by region & country, CAGR, 2017-2028 & (K Units)

U.S. VS China: Organ-On-Chip domestic production, consumption, key domestic manufacturers and share

Global Organ-On-Chip production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (K Units)

Global Organ-On-Chip production by Type, production, value, CAGR, 2017-2028, (USD Million) & (K Units)

Global Organ-On-Chip production by Application production, value, CAGR, 2017-2028, (USD Million) & (K Units)

This reports profiles key players in the global Organ-On-Chip market based on the following parameters – headquarters, production locations, products portfolio, Organ-On-Chip revenue, sales, average price and gross margin, recent developments.

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 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Organ-On-Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Organ-On-Chip 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

Other Organs

Global Organ-On-Chip Market, Segmentation by Application

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

Companies Profiled:

Emulate

Mimetas

TissUse

Tara Biosystems

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

Beijing Daxiang Biotech

Key Questions Answered

1. How big is the global Organ-On-Chip market?
2. What is the demand of the global Organ-On-Chip market?
3. What is the year over year growth of the global Organ-On-Chip market?
4. What is the production and production value of the global Organ-On-Chip market?
5. Who are the key producers in the global Organ-On-Chip market?
6. What are the growth factors driving the market demand?

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