

Human Organs-on-Chips Market, Global Outlook and Forecast 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 contains market size and forecasts of Human Organs-on-Chips in global, including the following market information:

Global Human Organs-on-Chips Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Human Organs-on-Chips Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Human Organs-on-Chips companies in 2021 (%)

The global Human Organs-on-Chips market was valued at 69 million in 2021 and is projected to reach US\$ 154.4 million by 2028, at a CAGR of 12.2% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Brain-on-a-chip Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Human Organs-on-Chips include Emulate, TissUse, Hesperos, CN Bio Innovations, Tara Biosystems, Draper Laboratory, Mimetas, Nortis and Micronit Microtechnologies B.V., etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Human Organs-on-Chips manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Human Organs-on-Chips Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Human Organs-on-Chips Market Segment Percentages, by Type, 2021 (%)

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 Human Organs-on-Chips Market, by End User, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Human Organs-on-Chips Market Segment Percentages, by End User, 2021 (%)

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

Global Human Organs-on-Chips Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Human Organs-on-Chips Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Human Organs-on-Chips revenues in global market, 2017-2022
(Estimated), (\$ millions)

Key companies Human Organs-on-Chips revenues share in global market, 2021 (%)

Key companies Human Organs-on-Chips sales in global market, 2017-2022
(Estimated), (K Units)

Key companies Human Organs-on-Chips sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Emulate

TissUse

Hesperos

CN Bio Innovations

Tara Biosystems

Draper Laboratory

Mimetas

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

Else Kooi Laboratory

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