

Global Human Organs-on-Chips Market Growth 2023-2029

<https://marketpublishers.com/r/G8461474709EEN.html>

Date: January 2023

Pages: 100

Price: US\$ 3,660.00 (Single User License)

ID: G8461474709EEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

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.

LPI (LP Information)' newest research report, the "Human Organs-on-Chips Industry Forecast" looks at past sales and reviews total world Human Organs-on-Chips sales in 2022, providing a comprehensive analysis by region and market sector of projected Human Organs-on-Chips sales for 2023 through 2029. With Human Organs-on-Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Human Organs-on-Chips industry.

This Insight Report provides a comprehensive analysis of the global Human Organs-on-Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Human Organs-on-Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Human Organs-on-Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Human Organs-on-Chips and breaks down the forecast by type, by end user, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Human Organs-on-Chips.

The global Human Organs-on-Chips market size is projected to grow from US\$ 65 million in 2022 to US\$ 156.4 million in 2029; it is expected to grow at a CAGR of 156.4 from 2023 to 2029.

Global key players of human organs-on-chips include Emulate, TissUse, Hesperos, CN Bio Innovations, Tara Biosystems and Draper Laboratory, etc. Top five players occupy for a share about 46%. North America is the largest market, with a share about 42%, followed by Asia-Pacific and Europe. In terms of product, liver-on-a-chip is the largest segment, with a share over 28%. In terms of end user, academic & research institutes is the largest market, with a share over 40%.

This report presents a comprehensive overview, market shares, and growth opportunities of Human Organs-on-Chips market by product type, end user, key manufacturers and key regions and countries.

Market Segmentation:

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

Segmentation by end user

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Cosmetics Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Emulate

TissUse

Hesperos

CN Bio Innovations

Tara Biosystems

Draper Laboratory

Mimetas

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

Else Kooi Laboratory

Key Questions Addressed in this Report

What is the 10-year outlook for the global Human Organs-on-Chips market?

What factors are driving Human Organs-on-Chips market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Human Organs-on-Chips market opportunities vary by end market size?

How does Human Organs-on-Chips break out type, end user?

What are the influences of COVID-19 and Russia-Ukraine war?

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