

Organ-on-a-Chip Market in Japan - Industry Outlook and Forecast 2020-2026

<https://marketpublishers.com/r/OFB3DAA06407EN.html>

Date: April 2020

Pages: 108

Price: US\$ 2,700.00 (Single User License)

ID: OFB3DAA06407EN

Abstracts

An organ-on-a-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-a-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-a-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 Organ-on-a-Chip in Japan, including

the following market information:

Japan Organ-on-a-Chip Market Revenue, 2015-2020, 2021-2026, (\$ millions)

Top Five Competitors in Japan Organ-on-a-Chip Market 2019 (%)

The global Organ-on-a-Chip market was valued at 30 million in 2019 and is projected to reach US\$ 109.6 million by 2026, at a CAGR of 38.2% during the forecast period. While the Organ-on-a-Chip market size in Japan was US\$ XX million in 2019, and it is expected to reach US\$ XX million by the end of 2026, with a CAGR of XX% during 2020-2026.

COVID-19 pandemic has big impact on Organ-on-a-Chip businesses, with lots of challenges and uncertainty faced by many players of Organ-on-a-Chip in Japan. This report also analyses and evaluates the COVID-19 impact on Organ-on-a-Chip market size in 2020 and the next few years in Japan

Total Market by Segment:

Japan Organ-on-a-Chip Market, By Type, 2015-2020, 2021-2026 (\$ millions)

Japan Organ-on-a-Chip Market Segment Percentages, By Type, 2019 (%)

Liver-on-a-chip

Kidney-on-a-chip

Lung-on-a-chip

Heart-on-a-chip

Intestine-on-a-chip

Brain-on-a-chip

Other Organs

Japan Organ-on-a-Chip Market, By Application, 2015-2020, 2021-2026 (\$ millions)

Japan Organ-on-a-Chip Market Segment Percentages, By Application, 2019 (%)

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Cosmetics Industry

Other End Users

Competitor Analysis

The report also provides analysis of leading market participants including:

Total Organ-on-a-Chip Market Competitors Revenues in Japan, by Players 2015-2020 (Estimated), (\$ millions)

Total Organ-on-a-Chip Market Competitors Revenues Share in Japan, by Players 2019 (%)

Further, the report presents profiles of competitors in the market, including the following:

Emulate

TissUse

Hesperos

CN Bio Innovations

Tara Biosystems

Draper Laboratory

Mimetas

Nortis

Micronit Microtechnologies B.V.

Kirkstall

Cherry Biotech SAS

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