

Organ-on-Chip Market by Type (Heart-on-chip, Human-on-chip, Intestine-on-chip, Kidney-on-chip, Liver-on-chip, and Lung-on-chip) - Global Opportunity Analysis and Industry Forecast, 2017-2023

<https://marketpublishers.com/r/OB4025DEA3AEN.html>

Date: November 2017

Pages: 129

Price: US\$ 5,540.00 (Single User License)

ID: OB4025DEA3AEN

Abstracts

Organ-on-chip a multichannel 3D micro-fluidic cell culture device, which simulates activities, mechanisms, and physiological responses of human organs. This chip develops a narrow channel for the blood and air flow in organs including lung, gut, liver, heart, and others. This devices is developed on a microchip that contains continuously perfused chambers colonized by living cells arranged to stimulate tissue- and organ-level physiology. It is used to nurture internal organs with the help of silicone.

The growth of the global organ-on-chip market is driven by increase in its applications in the healthcare sector, rise in demand for drug screening, and high demand for lung-based organ culture & kidney applications. However, high cost and nascent stage in R&D restrict the market growth. Conversely, increase in research activities on organ-on-chip is expected to offer ample opportunities to the key players.

The global organ-on-chip market is segmented on the basis of type and geography. Depending on type, the market is divided into heart-on-chip, human-on-chip, intestine-on-chip, kidney-on-chip, liver-on-chip, and lungs-on-chip. Geographically, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Emulate, AxoSim Technologies LLC, CN Bio innovations, Hurel Corporation, Hepregen, Insphero, Mimetas, Nortis, Organovo, and Tara Biosystems are some of the major key players operating in the global organ-on-chip market.

KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global organ-on-chip market along with current trends and future estimations to determine the imminent

investment pockets.

The report presents information regarding key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2016 to 2023 to highlight the financial competency of the industry.

Porter's Five Forces analysis illustrates the potency of the buyers and suppliers in the industry.

KEY MARKET SEGMENTS

By Type

Heart-on-chip

Human-on-chip

Intestine-on-chip

Kidney-on-chip

Liver-on-chip

Lung-on-chip

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

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