

Global Muscle-on-a-Chip Market Growth 2024-2030

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Abstracts

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Muscle-on-a-Chip is a biosimulation technology used to simulate the structure and function of human muscle tissue. This technology is usually implemented on a microfluidic chip or a microbial chip. Artificially cultured muscle cells are planted on the chip through tissue engineering and biotechnology methods to simulate various characteristics of real muscles, such as the contraction and movement function of muscle fibers. Muscle-on-a-Chip can be used to study the pathogenesis of muscle diseases, evaluate the efficacy and toxicity of drugs, and develop new treatments. This technology provides a highly controllable and reproducible experimental platform for muscle-related research, helping to advance the field of muscle medicine.

The global Muscle-on-a-Chip market size is projected to grow from US\$ 285 million in 2024 to US\$ 1199 million in 2030; it is expected to grow at a CAGR of 27.1% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Muscle-on-a-Chip Industry Forecast" looks at past sales and reviews total world Muscle-on-a-Chip sales in 2023, providing a comprehensive analysis by region and market sector of projected Muscle-on-a-Chip sales for 2024 through 2030. With Muscle-on-a-Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Muscle-on-a-Chip industry.

This Insight Report provides a comprehensive analysis of the global Muscle-on-a-Chip 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 Muscle-on-a-Chip portfolios and capabilities, market entry strategies, market positions, and

geographic footprints, to better understand these firms' unique position in an accelerating global Muscle-on-a-Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Muscle-on-a-Chip and breaks down the forecast by Type, by Application, 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 Muscle-on-a-Chip.

As an emerging market segment in the biomedical field, the muscle chip market has gradually attracted widespread attention from the industry in recent years. Muscle chips can simulate the structure and function of muscle tissue, providing a powerful tool for the research of muscle-related diseases, drug development and personalized medicine. Muscle chips have broad application potential in multiple fields, including diagnosis of muscle diseases, drug screening, toxicity testing, sports rehabilitation, and personalized medicine. By simulating the physiological and pathological processes of muscle tissue, muscle chips can help researchers gain a deeper understanding of the pathogenesis of muscle diseases, accelerate drug development, and improve treatment effects. Overall, the muscle chip market has broad development prospects and huge market potential.

This report presents a comprehensive overview, market shares, and growth opportunities of Muscle-on-a-Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Skeletal Muscle

Smooth Muscle

Other

Segmentation by Application:

Pharmaceutical R&D

Sports Medicine

Sports Equipment Development

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 analysing the company's coverage, product portfolio, its market penetration.

Emulate

CN Bio

TissUse

Axion Biosystems

Nortis

BioIVT

InSphero

Mimetas

Ascendance Biotechnology

StemoniX

Tara Biosystems

BGI Genomics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Muscle-on-a-Chip market?

What factors are driving Muscle-on-a-Chip market growth, globally and by region?

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

How do Muscle-on-a-Chip market opportunities vary by end market size?

How does Muscle-on-a-Chip break out by Type, by Application?

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