

## Global Human Liver Models Market Report 2018-2029

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### **Abstracts**

Human liver models are in vitro models that simulate the structure, function, and physiology of the human liver. These models are used for drug discovery, toxicity testing, disease modeling, and educational purposes. The use of human liver models enables researchers to study the mechanisms of liver diseases, test the efficacy and safety of new drugs, and reduce the need for animal testing.

The global human liver models market size in 2022 is estimated to reach US\$226.9 million, with a compound annual growth rate of 9.7%. This growth can be attributed to various factors such as increasing demand for advanced and efficient drug discovery methods, increasing funding for liver research, and advancements in technology related to liver models.

Human liver models are mainly used for drug discovery, education, and other purposes. The drug discovery segment dominates the market, accounting for more than 60% of the total revenue. Human liver models enable researchers to perform drug screening and toxicity testing in a more accurate and efficient manner, reducing the costs and time associated with traditional in vivo and in vitro methods.

The major global manufacturers in the human liver models industry include Emulate, Ascendance Bio, InSphero, CN Bio, Organovo, Cyfuse Biomedical, and Mimetas. These companies focus on developing innovative products, expanding their geographic presence, and enhancing the efficiency and reliability of their liver models.

North America dominates the human liver models market, followed by Europe and the Asia-Pacific region. This can be attributed to the high prevalence rates of liver diseases, strong healthcare infrastructure, and advanced medical technologies in these regions. However, emerging markets such as China and India present significant opportunities for growth due to increasing healthcare infrastructure and a growing demand for



### advanced medical technologies.

In conclusion, human liver models are essential tools for drug discovery, toxicity testing, and disease modeling. The market's growth is driven by factors such as increasing demand for efficient drug discovery methods, funding for liver research, and advancements in technology related to liver models. The major global manufacturers in the industry are investing in research and development to create innovative products and expand their market share. With continued adoption in both established and emerging markets, the human liver models industry presents potential opportunities for growth in the future.

The SWOT analysis of the Human Liver Models industry is as follows:

### Strengths:

Human liver models provide an innovative and efficient solution for drug discovery and toxicity testing, reducing costs and time associated with traditional in vivo and in vitro methods.

The increasing prevalence of liver diseases globally and the growing demand for advanced medical technologies present significant opportunities for growth in the industry.

Advancements in technology related to human liver models, such as the use of microfluidics and 3D printing, enable researchers to create more accurate and reliable models, improving patient outcomes.

#### Weaknesses:

The high cost associated with the development and use of human liver models may limit their use in certain regions or smaller healthcare organizations.

The potential safety concerns related to the accuracy and efficacy of human liver models can create market barriers and reduce patient confidence.

Stringent regulatory requirements and approval processes for medical devices can create obstacles for new product launches and approvals.

### Opportunities:

Increasing focus on personalized healthcare and precision diagnostics can lead to the development of new and innovative liver models tailored to specific patient needs. Growing demand for advanced medical technologies in emerging markets such as China, India, and Brazil represents major growth opportunities for the industry. Partnerships and collaborations with healthcare providers and government agencies can increase market penetration and improve product adoption rates.



#### Threats:

Competition from established global manufacturers could impact smaller players looking to enter the market.

New technological developments or alternative treatments may reduce the demand for liver models.

Economic instability and changes in healthcare policies can affect sales and revenue growth.

Key players in global Human Liver Models market include:

Emulate

Ascendance Bio

InSphero

**CN Bio** 

Organovo

Cyfuse Biomedical

Mimetas

Market segmentation, by product types:

Liver Organoids

Liver-on-a-chip

2D Models

3D Bioprinting

Others

Market segmentation, by applications:

**Drug Discovery** 

Education

Others



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