

Global Human Liver Models Market Research Report 2022 Professional Edition

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Abstracts

The global Human Liver Models market was valued at 1501.49 Million USD in 2021 and will grow with a CAGR of 11.65% from 2021 to 2027, based on HNY Research newly published report.

The prime objective of this report is to provide the insights on the post COVID-19 impact which will help market players in this field evaluate their business approaches. Also, this report covers market segmentation by major market vendors, types, applications/end users and geography (North America, East Asia, Europe, South Asia, Southeast Asia, Middle East, Africa, Oceania, South America).

Liver is a vital organ that performs several important bodily functions including bile production for digestion, protein production, synthesis of blood clotting factors, storage of glucose (sugar) in the form glycogen, and detoxification. Also, the liver cells have a remarkable ability to regenerate themselves after any damage. Due to this unique capability, the liver tissues have fascinated the researchers. True understanding of molecular and cellular connectivity and functions of the liver tissues in an in-vivo as well as in-vitro setting is very important from the viewpoint of discovery science and clinical application. Development of liver models that can provide a virtual ecosystem that mimics the molecular processes of a liver factory can help understand molecular interactions to network dynamics and whole organ functions. These advanced liver models are mini-organs or organoids that are expected to replicate human liver physiology, anatomy, and functions from molecular layer upward. The formation of these living models is a fairly new area of science that has the potential to replace animal models. The human liver models offer several advantages over animal models that are not always accurate and pose ethical issues. The human liver models or organoids have been used to screen new drugs for liver toxicity. These models are also

being deeply studied to build a functional model of human liver development. The process of making a human liver model starts with a fetal liver progenitor cell, an immature cell that transforms into a specialized liver cell. The fetal liver progenitor cell is allowed to self-assemble in a small disc. These discs are composed of ferret liver cells that are pre-processed to remove all cells of the ferret. The resultant mini-organ models the actual human liver development. These models have been observed to generate hepatocytes, the basic functional cells of the liver, which is expected to produce the functional bioengineered liver tissues for transplantation into patients in the near future. North American segment accounted for the largest share of the market in 2018. The human liver market for North America is driven by the presence of a well-established life sciences industry, growing awareness about the organoids technology, increasing government funding, growing incidence of NAFLD, and unavailability of livers for transplantation, increasing investments on research, rising focus on tissue culture-based clinical diagnostics, and the availability of skilled professionals.

By Market Vendors:

Emulate

Ascendance Bio

InSphero

CN Bio

Organovo

Cyfuse Biomedical

Mimetas

By Types:

Liver Organoids

Liver-on-a-chip

2D Models

3D Bioprinting

By Applications:

Drug Discovery

Education

Key Indicators Analysed

Market Players & Competitor Analysis: The report covers the key players of the industry including Company Profile, Product Specifications, Production Capacity/Sales, Revenue, Price and Gross Margin 2016-2027 & Sales with a thorough analysis of the market's competitive landscape and detailed information on vendors and comprehensive details of factors that will challenge the growth of major market vendors.

Global and Regional Market Analysis: The report includes Global & Regional market status and outlook 2016-2027. Further the report provides break down details about each region & countries covered in the report. Identifying its sales, sales volume & revenue forecast. With detailed analysis by types and applications.

Market Trends: Market key trends which include Increased Competition and Continuous Innovations.

Opportunities and Drivers: Identifying the Growing Demands and New Technology

Porters Five Force Analysis: The report provides with the state of competition in industry depending on five basic forces: threat of new entrants, bargaining power of suppliers, bargaining power of buyers, threat of substitute products or services, and existing industry rivalry.

Key Reasons to Purchase

To gain insightful analyses of the market and have comprehensive understanding of the global market and its commercial landscape.

Assess the production processes, major issues, and solutions to mitigate the development risk.

To understand the most affecting driving and restraining forces in the market and its impact in the global market.

Learn about the market strategies that are being adopted by leading respective organizations.

To understand the future outlook and prospects for the market.

Besides the standard structure reports, we also provide custom research according to specific requirements

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