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Human Liver Model Market Size, Share & Trends Analysis Report By Product (2D Models, 3D Models), By Application (ADME Studies, Toxicology Testing), By End-use (Academic & Research Institutes), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Human Liver Model Market Size & Trends

The global human liver model market size was estimated at USD 1.19 billion in 2023 and is projected t%li%grow at a CAGR of 13.8% from 2024 t%li%2030. The market is driven by the increasing prevalence of liver diseases, advancements in organ printing technologies, and increased demand for therapeutic drugs for liver cancer, which is expected t%li%propel its growth.

According t%li%the Health Resources & Services Administration, in 2023, in the U.S., 106,800 individuals are waiting for organ transplants. The healthcare landscape is evolving, and advancements in 3D printing technology are set t%li%transform healthcare by addressing organ shortages and improving patient care globally.

The prevalence of liver diseases is on the rise globally, leading t%li%a growing demand for advanced research tools include Human Liver Model. Chronic liver conditions such as non-alcoholic fatty liver disease (NAFLD), alcoholic liver disease, viral hepatitis, and liver cancer are becoming increasingly common due t%li%factors such as unhealthy diets, sedentary lifestyles, alcohol consumption, and viral infections. For instance, NAFLD emerged as the most prevalent chronic liver disorder in Western countries, affecting approximately 25% of the global population. This significant rise in the

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prevalence of liver diseases has driven the urgent need for more accurate and efficient Human Liver Model t%li%support research and drug development efforts.

Organ 3D printing technologies have advanced significantly recently, particularly in developing Human Liver Model. These advancements have revolutionized regenerative medicine and drug testing by providing more accurate and personalized models for research purposes. For instance, in February 2023, researchers at the University of California San Dieg%li%made significant progress in addressing challenging issues in bi%li%printing 3D-engineered tissues, achieving high cell density, viability, and precise fabrication resolution.

Global Human Liver Model Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 t%li%2030. For this study, Grand View Research has segmented the global human liver model market report based on product, application, end-use, and region:

Product Outlook (Revenue, USD Million, 2018 - 2030)

2D Models

Cell lines

Primary Cells

3D Models

Liver on Chip

Organoids

Spheroids

Others

Application Outlook (Revenue, USD Million, 2018 - 2030)

ADME Studies

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Toxicology Testing

Disease Modelling

Others

End-use Outlook (Revenue, USD Million, 2018 - 2030)

Academic & Research Institutes

Pharmaceutical & Biotechnology Companies

Contract Research Organizations

Regional Outlook (Revenue in USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

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Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East and Africa

South Africa

Saudi Arabia

UAE

Kuwait

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