

# **Global Xenotransplantation Market Size, By Product Type (Organ Preservation Solution, Transplant Diagnostics, Xeno Products (Organ, Cell, Tissue), Others), By Application (Kidney, Heart, Liver, Lung, Others), By End-use (Transplant Centers, Hospitals, Others), and Regional Forecasts 2023-2032**

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## **Abstracts**

The Global Xenotransplantation Market was valued at approximately USD 29.9 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8.9% over the forecast period 2024-2032. Xenotransplantation involves the transplantation of living cells, tissues, or organs from one species to another, primarily focusing on transferring animal organs or tissues into humans to address the shortage of human organs available for transplantation. The primary aim is to utilize non-human animal sources to replace or repair damaged or dysfunctional organs in human recipients. The rising demand for organ transplantation and the potential of xenotransplantation as a viable solution to address the organ shortage crisis will create substantial growth opportunities. The high demand for organ transplants, coupled with the scarcity of organ donors, leads to long waiting times and increased mortality rates, driving the growth of the xenotransplantation market.

Moreover, advancements in genetic engineering and organ preservation technologies are crucial drivers of market growth. Techniques such as CRISPR-Cas9 enable the creation of genetically engineered animals with organs more compatible with human recipients. Additionally, robotic-assisted surgery is anticipated to improve the precision and safety of xenotransplantation procedures, enhancing surgical outcomes and reducing post-operative complications. However, the market faces challenges such as stringent regulatory scenarios and a dearth of skilled professionals, which could impede

growth.

The key regions considered for the Global Xenotransplantation Market study include North America, Europe, Asia Pacific, Latin America, and Middle East and Africa. North America holds the largest market share, driven by the high prevalence of chronic diseases, significant investment in research and development, and favorable regulatory policies. The Asia-Pacific region is expected to witness rapid growth due to the increasing adoption of xenotransplantation, a growing number of transplant procedures, and rising awareness of organ donation.

Major market players included in this report are:

Novartis AG

Immerge BioTherapeutics, Inc.

United Therapeutics Corporation

Infigen, Inc.

eGenesis, Inc.

NZeno Limited

Preservation Solutions, Inc.

Xeno Transplants Corporation

F. Hoffmann-La Roche Ltd.

OrganOX Limited

Tissera, Inc.

Lung Biotechnology PBC

Enlivex Therapeutics Ltd.

United Xenex

Biolife4D

The detailed segments and sub-segment of the market are explained below:

By Product Type:

Organ Preservation Solution

Transplant Diagnostics

Xeno Products

Organ

Cell

Tissue

Others

By Application:

Kidney

Heart

Liver

Lung

Others

By End-use:

Transplant Centers

Hospitals

Others

By Region:

North America

U.S.

Canada

Europe

France

Germany

UK

Spain

Italy

Rest of Europe

Asia-Pacific

India

China

Japan

South Korea

Australia

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East

Saudi Arabia

South Africa

Rest of LAMEA

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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