

Global Tissue Engineering and Regeneration Market Size study & Forecast, by Product (Biomaterials, Cell Therapy, Tissue Engineering), by Application (Orthopedics, Dermatology, Cardiology, Neurology, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Tissue Engineering and Regeneration Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. The global tissue engineering and regeneration market is a segment of the medical industry that involves the application of engineering and biological principles to develop and manufacture new tissues and organs for the repair, restoration, or replacement of damaged or diseased tissues and organs in the human body. The field of tissue engineering and regeneration encompasses a range of technologies, including biomaterials, stem cell therapy, gene therapy, and 3D printing, among others. The major driving factors for the Global Tissue Engineering and Regeneration Market are increasing prevalence of chronic diseases and growing geriatric population. Moreover, growing demand for organ transplantation and increasing research and development activities are creating lucrative growth opportunities for the market over the forecast period 2023-2030.

Significant investments in research and development activities in the field of tissue engineering and regeneration are driving the growth of this market. In 2021, researchers from the University of Minnesota developed a 3D-printed scaffold that can help repair spinal cord injuries by promoting the growth of nerve cells. Similarly, in 2020, researchers from the Wyss Institute for Biologically Inspired Engineering at Harvard University developed a new method for growing large quantities of functional liver cells from human stem cells. Additionally, in 2021, scientists from Northwestern University developed a new type of hydrogel that can help repair heart tissue damaged by a heart

attack. However, the high cost of Tissue Engineering and Regeneration stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Tissue Engineering and Regeneration Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is the dominating region for tissue engineering and regeneration, accounting for the highest share of the market. This can be attributed to the presence of several key players in the region, increasing R&D activities, and a large number of clinical trials being conducted. The Asia Pacific region is expected to witness the fastest growth in the tissue engineering and regeneration market due to increasing investments in research and development activities, a large patient pool, and growing awareness about regenerative medicine.

Major market players included in this report are:

Organogenesis Inc.

Acelity L.P. Inc.

Zimmer Biomet Holdings Inc.

Stryker Corporation

Integra LifeSciences Holdings Corporation

Medtronic plc

Smith & Nephew plc

Athersys Inc.

Vericel Corporation

Osiris Therapeutics, Inc.

Recent Developments in the Market:

In 2020, Organogenesis announced the launch of its PuraPly Antimicrobial Wound Matrix, a product designed to reduce bacterial contamination and support the healing of chronic wounds. In 2021, the company acquired NuTech Medical, a developer of advanced wound care products.

In 2020, Acelity launched its PREVENA RESTOR AXIO•FORM Incision Management System, a product designed to promote healing and prevent infection following breast reconstruction surgery. In 2021, the company announced the acquisition of Crawford Healthcare, a UK-based wound care and dermatology company.

Global Tissue Engineering and Regeneration Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered - Product, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Biomaterials

Cell Therapy

Tissue Engineering

By Application:

Orthopedics

Dermatology

Cardiology

Neurology

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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