+357 96 030922
info@marketpublishers.com

Global Cardiac Tissue Engineering Market Size Study, By Material (Stem Cells, Biological Scaffolds, Synthetic Scaffolds), By Product (Vascular Grafts, Cardiac Patches, Heart Valves), By Application (Myocardial Infarction, Heart Valve Repair/Replacement, Congenital Heart Disease Treatment, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G786AF26C18EEN.html
Date: January 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: G786AF26C18EEN

Abstracts

The global cardiac tissue engineering market, valued at approximately USD 533.22 million in 2023, is poised to expand at an impressive CAGR of 16.5%, reaching USD 2107.85 million by 2032. This growth is driven by a convergence of factors, including an increasing prevalence of cardiovascular diseases, advances in regenerative medicine, and the rising adoption of 3D bioprinting technologies. Cardiac tissue engineering has emerged as a pivotal solution in addressing critical clinical challenges related to heart tissue repair and regeneration, transforming the landscape of cardiovascular care.

The market's material segmentation underscores the dominance of biological scaffolds, which accounted for a significant share in 2023. Their superior bioactivity, seamless integration with the host extracellular matrix, and enhanced cell adhesion capabilities make them the material of choice for promoting natural tissue regeneration. Conversely, synthetic scaffolds face limitations, such as reduced bioactivity and degradation challenges, positioning biological scaffolds as the cornerstone of cardiac tissue engineering solutions.

Cardiac patches, a prominent product segment, have gained traction for their multifunctional therapeutic properties. These patches not only provide mechanical support to weakened myocardial tissues but also enhance heart function by delivering

+357 96 030922
info@marketpublishers.com

synchronized electrical conduction and targeted therapies. Their innovative design minimizes systemic side effects, driving their adoption in critical cardiac repair applications.

Regionally, North America leads the cardiac tissue engineering market, bolstered by advanced medical infrastructure, robust healthcare spending, and active participation by major market players. Meanwhile, Asia Pacific is set to record the fastest growth, driven by a rapidly aging population and a surge in cardiovascular disease prevalence, highlighting the region's burgeoning demand for advanced cardiac therapies.

Major Market Players Included in this Report:

1. Terumo Corporation (Japan)

2. Artivion, Inc. (US)

3. Baxter International, Inc. (US)

4. Medtronic Plc (Ireland)

5. Boston Scientific Corporation (US)

6. Abbott Laboratories (US)

7. Merck KGaA (Germany)

8. Fujifilm Holdings Corporation (Japan)

9. W. L. Gore & Associates, Inc. (US)

10. BICO - THE BIO CONVERGENCE COMPANY (Sweden)

11. Meril Lifesciences Pvt. Ltd. (India)

12. ReproCELL, Inc. (US)

13. PromoCell GmbH (Germany)

14. Vascudyne, Inc. (US)

+357 96 030922
info@marketpublishers.com

15. Cell Applications, Inc. (US)

The Detailed Segments and Sub-segments of the Market Are Explained Below:

By Material:

- Stem Cells
- Biological Scaffolds
- Synthetic Scaffolds

By Product:

- Vascular Grafts
- Cardiac Patches
- Heart Valves

By Application:

- Myocardial Infarction
- Heart Valve Repair/Replacement
- Congenital Heart Disease Treatment
- Others

By Region:

- North America
- U.S.

+357 96 030922
info@marketpublishers.com

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

+357 96 030922
info@marketpublishers.com

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

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

Annualized revenues and regional-level analysis for each market segment.

Detailed geographical landscape analysis with country-level insights.

Competitive landscape with information on major players in the market.

Strategic business insights and recommendations on future market approaches.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 4. GLOBAL CARDIAC TISSUE ENGINEERING MARKET INDUSTRY ANALYSIS

CHAPTER 5. GLOBAL CARDIAC TISSUE ENGINEERING MARKET SIZE & FORECASTS BY MATERIAL 2022-2032

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 9. COMPETITIVE INTELLIGENCE

CHAPTER 10. RESEARCH PROCESS

+357 96 030922
info@marketpublishers.com

12. LIST OF TABLES

This list is not complete; the final report contains more than 100 tables. The list may be updated in the final deliverable.

+357 96 030922
info@marketpublishers.com

12. LIST OF FIGURES

This list is not complete; the final report contains more than 50 figures. The list may be updated in the final deliverable.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Cardiac Tissue Engineering Market Size Study, By Material (Stem Cells, Biological Scaffolds, Synthetic Scaffolds), By Product (Vascular Grafts, Cardiac Patches, Heart Valves), By Application (Myocardial Infarction, Heart Valve Repair/Replacement, Congenital Heart Disease Treatment, Others), and Regional Forecasts 2022-2032

Product link: https://marketpublishers.com/r/G786AF26C18EEN.html

Price: US$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G786AF26C18EEN.html