

## Tissue Engineering: Technologies and Therapeutic Areas – A Global Market Overview

*“The report reviews, analyzes and projects the global market for Tissue Engineering for the period 2015-2024. This report analyzes the market for Tissue Engineering material types comprising Biomimetic Materials, Composite Materials, Nanocomposite Materials and Nanofibrous Materials. The report also analyzes the market for Tissue Engineering by applications including Cancer, Cardiology & Vascular, Dental/Oral, Neurology, Orthopedics-Musculoskeletal & Spine, Skin/Integumentary and other applications.”*

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### Report Synopsis

Organs developed using Tissue Engineering are highly durable and efficient, with applications gaining ground in areas, such as surgical manipulation of tissues and prosthetics for cardiac, cancer and orthopedic uses. The technology has reached a stage where the products offer a reduced rate of rejection by the body, which would further propel the market for Tissue Engineering. Though North America is the leading global region for revenues garnered from Tissue Engineering, Asia-Pacific is likely to outpace all other regions by posting the fastest CAGR over the analysis period.

Orthopedics, Musculoskeletal & Spine applications corner the largest share of the global market for Tissue Engineering in terms of application, which is estimated at 60.5% or US\$13.5 billion in 2018 and is projected to reach US\$34.7 billion by 2024 at a CAGR of 17.1% between the two years. Overall, Tissue Engineering market, globally, for 2019 is projected to touch US\$25.4 billion.

- Biomaterials for Tissue Engineering Get Innovative
- Successful Creation of Functioning Kidney Tissue by Researchers
- Human Trials of Novel Tissue-Engineered Blood Vessel Replacements Now Closer
- Plasma Protein Shows Promise for Making Wound-Healing Tissue Scaffolds
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 38
- The industry guide includes the contact details for 270 companies

### Product Outline

The report analyzes the market for the following material types of Tissue Engineering including:

- Biomimetic Materials
- Composite Materials
- Nanocomposite Materials
- Nanofibrous Materials

The market for applications of Tissue Engineering explored in this report includes:

- Cancer
- Cardiology & Vascular
- Dental/Oral
- Neurology
- Orthopedics, Musculoskeletal & Spine
- Skin/Integumentary
- Others

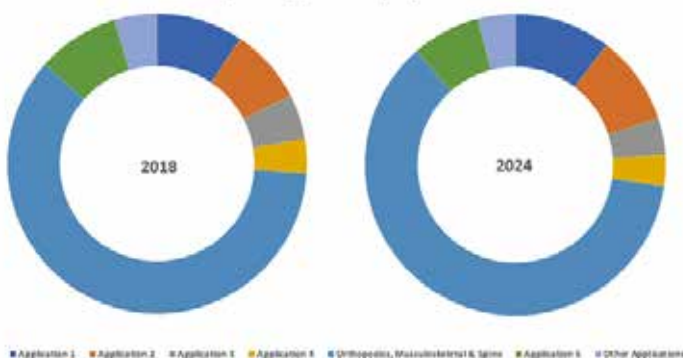
### Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Tissue Engineering market for the period 2015-2024 in terms of US\$ and the compound annual growth rates (CAGRs) projected from 2018 through 2024

### Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (France, Germany, Italy, The United Kingdom and Rest of Europe)
- **Asia-Pacific** (China, India, Japan, South Korea and Rest of Asia-Pacific)
- **South America** (Argentina, Brazil and Rest of SA)
- **Rest of World**

Global Tissue Engineering Market by Application 2018-2024



### Research Findings & Coverage

- The global market for Tissue Engineering analyzed in this report with respect to Material Types and Applications
- The study explores the afore mentioned categories of Tissue Engineering in each major region/country worldwide for the analysis period

## SAMPLE COMPANY PROFILE

### ACELL INC. (UNITED STATES)

6640 Eli Whitney Drive, Columbia, Maryland 21046  
Phone: 800-826-2926, Fax: 410-715-4511  
Website: acell.com

#### Business Overview

Established in Maryland, United States, ACell Inc. is a leading regenerative medicine company engaged in the development and production of products and devices based on extracellular matrix (ECM) technology to repair and remodel tissues. The company is engaged in the production of MatriStem UBM™, the only commercially available ECM made of urinary bladder matrix (UBM). The company also offers Cytal® Wound Matrix and MicroMatrix® devices for use in various wound management procedures such as the management of diabetic foot ulcers (DFUs), venous leg ulcers (VLUs), pressure ulcers and second degree burns; and Gentrix® Surgical Matrix devices for use in surgical soft tissue repair for reinforcing soft tissue in weak urological, gynecological and gastrointestinal anatomy.

#### Product Portfolio

Products	Particulars
Cytal® Burn Matrix	Designed to heal wounds such as second-degree burns, partial and full-thickness wounds, pressure ulcers, venous ulcers, diabetic ulcers, chronic vascular ulcers, tunneled/undermined wounds, surgical wounds (donor sites/grafts, post-Mohs surgery, post-laser surgery, podiatric, wound dehiscence), trauma wounds (abrasions, lacerations, skin tears), and draining wounds The device is intended for one time use
MicroMatrix®	Designed to heal wounds such as partial and full-thickness wounds, pressure ulcers, venous ulcers, diabetic ulcers, chronic vascular ulcers, tunneled/undermined wounds, surgical wounds (donor sites/grafts, post-Mohs surgery, post-laser surgery, podiatric, wound dehiscence), trauma wounds (abrasions, lacerations, second-degree burns, skin tears), and draining wounds The device is intended for one-time use
Gentrix® Surgical Matrix	These surgical devices are sterile, porcine-derived, naturally-occurring extracellular matrix sheets for soft tissue reinforcement <ul style="list-style-type: none"> <li>• <b>Gentrix® Surgical Matrix Thin</b> for implantation for reinforcing soft tissue where weakness exists in patients needing urological, gastroenterological, or plastic &amp; reconstructive surgery covering hernia and body wall repair, colon and rectal prolapse repair, tissue repair, and esophageal repair</li> <li>• <b>Gentrix® Surgical Matrix</b> for implantation for reinforcing soft tissue where weakness exists in patients needing gastroenterological or plastic &amp; reconstructive surgery covering hernia (hiatal/diaphragmatic) and body wall repair, colon and rectal prolapse repair, tissue repair, and esophageal repair</li> <li>• <b>Gentrix® Surgical Matrix Plus</b> for implantation to reinforce soft tissue where weakness exists in patients needing gastroenterological or plastic &amp; reconstructive surgery covering hernia (hiatal/diaphragmatic) and body wall repair, colon and rectal prolapse repair, tissue repair, and esophageal repair</li> <li>• <b>Gentrix® Surgical Matrix Thick</b> for implantation to reinforce soft tissue where weakness is there in patients needing gastroenterological or plastic &amp; reconstructive surgery covering hernia and body wall repair, colon and rectal prolapse repair, tissue repair, and esophageal repair</li> </ul>

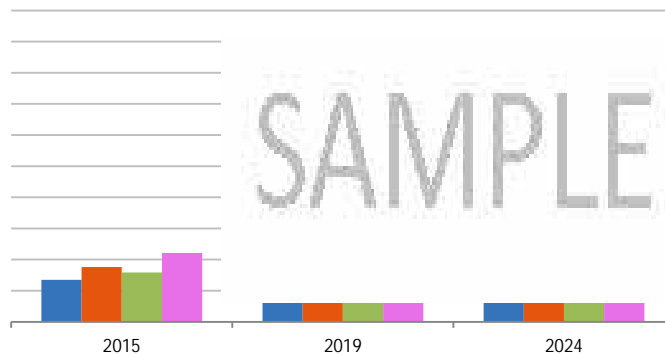
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## SAMPLE TABLE/CHART

Glance 2018 Global Tissue Engineering Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



North American Tissue Engineering Market Analysis (2015-2024) by Material Type – Biomimetic Materials, Composite Materials, Nanocomposite Materials and Nanofibrous Materials in USD Million



## KEY PLAYERS PROFILED

- Acell Inc.
- Allergan Plc
- Athersys, Inc.
- B. Braun Melsungen AG
- Biotime, Inc.
- Biotissue SA
- C. R. Bard, Inc.
- Cryolife Inc.
- Integra Lifesciences Holdings Corporation
- International Stem Cell Corporation
- Medtronic, Inc.
- Organogenesis Inc.
- Osiris Therapeutics, Inc.
- Reproncell Inc.
- RTI Surgical®
- Stryker Corporation
- Tissue Regenix Ltd
- Vericel Corporation
- Wright Medical Group
- Zimmer Biomet

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**Industry Experts, Inc.**  
14726 Ramona Ave, Suite S2  
Chino, CA 91710  
Greater Los Angeles  
United States  
Phone: +1-320-iXPERTS (497-3787)  
  
Email: [info@industry-experts.com](mailto:info@industry-experts.com)

**India Office**  
1-7-19/C, Street No. 8, Habsiguda  
Hyderabad – 500007  
India  
Phone: +91-40-4018-1314  
Fax: +91-40-2715-7746  
  
Website: <http://industry-experts.com>