

Market Analysis on Biomaterials and Biomedical Engineering

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Summary:

Biomaterials are either natural or synthetic substances synthesized in the laboratory using a variety of chemical approaches employing metallic components, polymers, ceramics or composite materials for medical applications. Biomaterials are engineered to interact with the biological system either to treat or replace the damaged organ or a diagnostic one. Biomaterials science includes elements of medicine, biology, chemistry, tissue engineering and **materials science**.

Biomaterials 2020 covers a broad range of subjects to discuss on this international platform by conducting keynote lectures, plenary speeches, workshops and poster presentations. **Biomaterials-2019** is intended to discover the implications of **Biomaterials Science** and Tissue Engineering.

For more details please visit [Biomaterials Conferences](#)

Importance & Scope:

Biomaterials research is a major field in Medicine, which is still under research and the advancements are maximizing day by day.

The main speakers will be renowned personalities in the field of Biomaterials Science.

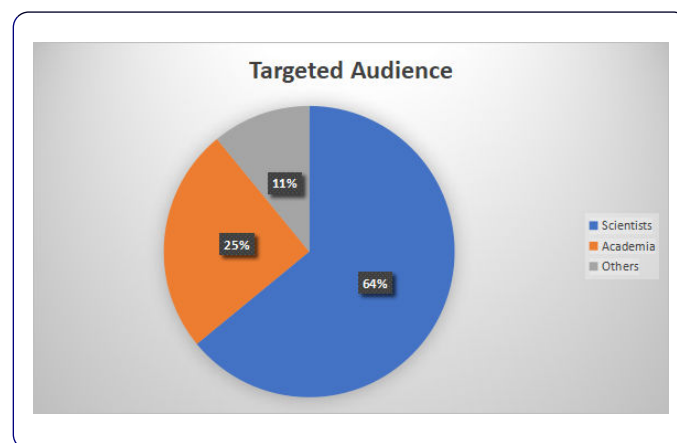
People from the research community, Doctors, Students, Company CEO's related particularly to this domain are more inclined towards this Conference. By this conference the advancements in the **Biomaterials** research gets exposure globally.

This conference will highlight the important topics like

- Dental Biomaterials
- Advanced Biomaterials
- Tissue Engineering and Regenerative Medicine
- Biomaterials Applications
- Biomaterials Companies and Market Analysis
- Polymer Biomaterials
- Biomaterials and Nanotechnology
- Properties of Biomaterials
- 3D Printing of Biomaterials
- Bio photonics and Biomedical Optics
- Bio-based Materials and Sustainability
- Biomaterials in Delivery Systems
- Biodegradable Biomaterials

Why to attend??

Biomaterials 2020 conference acts as a platform for bridging the gap between Academia and Industry through discussion on novel research methods in **Biomaterials** research.



The conference gives best opportunity for meeting with Industrial experts, Academic speakers, Pharmaceutical Companies, Decision-makers, interacting and defining novel prospects in Biomaterials business. It helps in dynamically adding value to biomedical, pharmaceutical, R&D businesses. Novel approaches and applications about biomaterials like the gene/drug delivery systems development and industrializing insights & gain the latest technologies about novel biomaterials and tissue engineering.

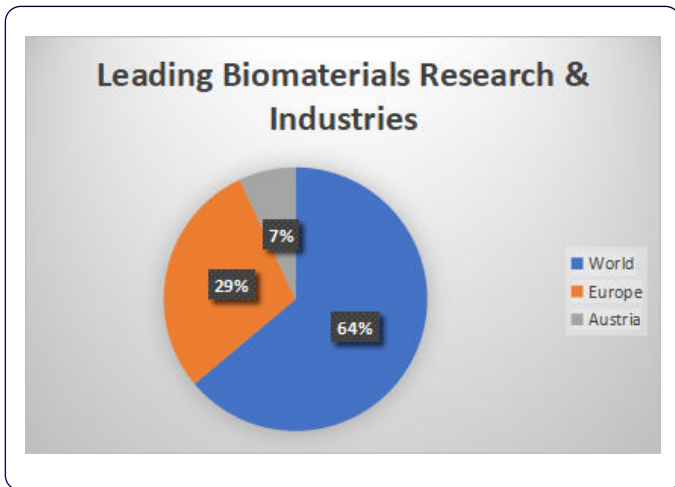
It emphasizes on novel strategies for biomedical applications and latest updates to drive your market share accordingly. Learn on the applications of novel biomaterials and other alternatives for treating major diseases to progress the materials portfolio industrialization pathways.

Global Markets of Biomaterials:

The biomaterials market is expected to reach USD 149.17 Billion by 2021 from an estimated USD 70.90 Billion in 2016, at a CAGR of 16.0%. The growth of the overall **biomaterials** market can be ascribed to enlarged funds & grants by government bodies worldwide, the growing implantable devices market, technological progressions, increasing number of hip and knee replacement procedures, and high growth in geriatric population coupled with increasing incidence of cardiovascular diseases.

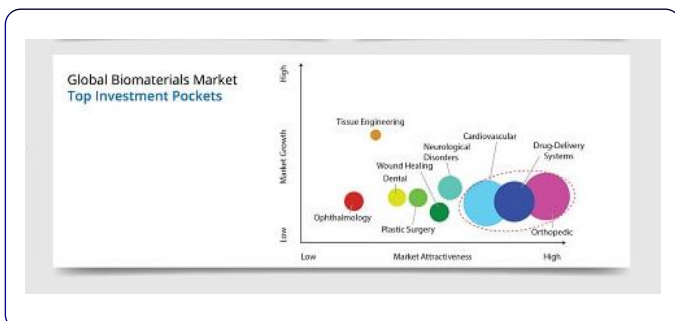
The dental devices report estimates the size of global dental **devices** and consumables market over the period 2010 – 2015. The report evaluates the key trends of the market and

segments the global dental equipment and consumables market by components.



The global bone cement and glue market is predictable to reach USD 1,322.6 Million by 2022 from USD 993.0 Million in 2017, at a CAGR of 5.9%. The market development is primarily driven by the rising occurrence of sports injuries and cumulative developments in regenerative medicine field. Key players in the bone cement and glue market include Stryker (US), Zimmer Biomet (US), DePuy Synthes (US), Smith & Nephew (UK), Arthrex (US), DJO Global (US), Exactech (US), TEKNIMED (France), Heraeus Medical (Germany), CryoLife (US), Cardinal Health (US), and Trimpl (Australia).

Brazil Biomaterials Market is predictable to reach \$1.7 billion in 2015 from \$550.2 million in 2008 with a CAGR of 19.5% from 2010 to 2015. In 2009, the orthopedic biomaterial market recorded revenues of \$236.5 million or 37.5% of the total biomaterial products market. This is mostly because of cumulative application areas and starter of sophisticated technologies in the biomaterials market. However, the orthopedic biomaterial market is estimated to grow at a CAGR of 17.2% from 2010 to 2015. Cardiovascular biomaterial products market is the second-highest market, contributing 36% of the total biomaterial products market.



The 3D bio printing market is likely to reach USD 1,332.6 Million by 2021 from USD 411.4 Million in 2016, at a CAGR of 26.5% during the prediction period. Growing claim for organ transplantation, growing R&D, increasing public and private investments in research, and rising use of 3D bioprinting in drug discovery are driving the growth of this market. However, a lack of complete automation in 3D bio printing and socio-ethical concerns related to the use of 3D-bioprinted products

are the major challenges in this market. The global 3D printing medical devices market is projected to reach USD 1.88 Billion by 2022 from USD 0.84 Billion in 2017, at a CAGR of 17.5% during the forecast period. Technological progressions, growing public-private funding, easy expansion of customized medical products, and rising applications in the healthcare industry are the major factors driving the growth of the 3D printing medical devices market. The key companies in the global 3D printing medical devices market are Stratasys, Ltd. (Israel & U.S.), 3D Systems Corporation (U.S.), EnvisionTEC GmbH (Germany), Materialise NV (Belgium), EOS GmbH (Germany), Arcam AB (Sweden), Concept Laser GmbH (Germany), Renishaw plc (U.K.), Prodways Group (France), and 3T RPD Ltd. (U.K.).

GLOBAL BIOMATERIALS MARKET
Opportunities and Forecasts, 2015-2022

Global Biomaterials Market is expected to reach **\$139 billion** by 2022.
Growing at a **CAGR of 11.8%** (2016-2022)

The international bone cement and glue market is expected to reach USD 1,322.6 Million by 2022 from USD 993.0 Million in 2017, at a CAGR of 5.9%. The market development is mainly determined by the growing incidence of sports injuries and cumulative expansions in regenerative medicine field. Key

companies in the bone cement and glue market comprise Stryker (US), Zimmer Biomet (US), DePuy Synthes (US), Smith & Nephew (UK), Arthrex (US), DJO Global (US), Exactech (US), TEKNIMED (France), Heraeus Medical (Germany), CryoLife (US), Cardinal Health (US), and Trimph (Australia).

The **3D printing market** is projected to be esteemed at USD 32.78 Billion by 2023, at a CAGR of 25.76% between 2017 and 2023. The 3D printing marketplace includes major companies such as Stratasys Ltd. (US), 3D Systems Corporation (US), EOS GmbH (Germany), Materialise NV (Netherlands), SLM Solutions Group AG (Germany), Arcam AB (Sweden), Concept Laser GmbH (Germany), The ExOne Company (US), Voxeljet AG (Germany), Proto Labs, Inc. (US), Optomec Inc. (US), ARC Group Worldwide, Inc. (US), GROUPE GORGÉ (France), EnvisionTEC GmbH (Germany), Mcor Technologies Ltd. (Ireland), Beijing Tiertime Technology Co. Ltd. (China), Renishaw plc (UK), XYZprinting (Taiwan), Ultimaker BV (Netherlands), Koninklijke DSM N.V. (Netherlands), Höganäs AB (Sweden), taulman3D, LLC (US), Nano Dimension (Israel), Carbon Inc. (US), Markforged, Inc. (US), and Cookson Precious Metals Ltd. (UK).

The global surgical sealants and adhesives **market** is estimated to grow at a CAGR of 9.6% from 2016 to 2021 to reach USD 2.96 Billion by 2021. The majority of the demand for surgical sealants and adhesives is driven by the growing

prevalence and incidence of various disorders such as obesity and CVDs, increasing incidence of trauma, growth in the number of accidents, rising need to manage blood loss in patients, growth in the number of surgeries, and rising geriatric population. In addition, the greater uptake of technologically advanced products and growing adoption of surgical sealants and adhesives in the U.S. and Europe (owing to FDA and CE Mark approvals) are responsible for driving the overall growth of this market.

The metal **biocides** market is projected to raise from USD 2.63 Billion in 2015 to USD 3.49 Billion by 2021, at a CAGR of 4.8%, in terms of value. The market is determined by the hasty development in key end-use industries such as, paints & coatings, medical, and foods & beverages. The universal hydrophilic coating market was esteemed at USD 8.89 Billion in 2015 and is expected to reach USD 12.77 Billion by 2021, at a CAGR of 6.0% from 2016 to 2021.

The dental consumables **market** is predictable to witness substantial development in the coming years. The worldwide dental consumables market is expected to reach USD 35.35 Billion by 2021 from USD 25.45 Billion in 2016, at a CAGR of 6.8% from 2016 to 2021. Though, the high cost and partial reimbursement for dental care and shortage of dental professionals are likely to detain the development of this market.