

Nucleic Acid Therapeutics: Promising New Approach to Treating Diseases Drives Growth in the Biopharmaceutical Industry

PORTLAND, OREGON, UNITED STATES, March 28, 2023 /EINPresswire.com/ --
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The global [nucleic acid therapeutics market](#) was estimated at \$4.1 billion in 2021 and is expected to hit \$12.2 billion by 2031, registering a CAGR of 11.6% from 2022 to 2031. Nucleic Acid Therapeutics is a type of medical treatment that uses genetic material, such as DNA or RNA, to treat or prevent diseases. This is done by introducing these genetic materials into the body, which then interact with the body's own cells to produce therapeutic effects.



The most common application of nucleic acid therapeutics is in gene therapy, where genetic material is used to replace or supplement faulty genes in the body. This approach has shown promise in treating genetic diseases, such as cystic fibrosis and sickle cell anemia.

Another application of nucleic acid therapeutics is in RNA interference (RNAi) therapy, where small pieces of RNA are used to selectively silence or "turn off" specific genes that are involved in disease processes. This approach has shown promise in treating diseases such as cancer and viral infections.

Overall, nucleic acid therapeutics represent a promising new approach to treating a wide range of diseases, and are an active area of research and development in the medical field.

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The outbreak of the pandemic slowed down the global market growth for treatments of nucleic acid therapeutics, which in turn had a negative impact on the market revenue in 2021 and beyond.

However, the market has already started recovering at a quick pace and is expected to get back on track very soon.

What are the key challenges in the development of nucleic acid therapeutics?

Nucleic Acid Therapeutics use segments of genetic material, such as DNA or RNA, to achieve therapeutic effects. These segments of genetic material can be modified or designed to target specific genes or cellular processes, and can be delivered to the body using various methods, such as viral vectors or lipid nanoparticles.

In gene therapy, the segments of genetic material are used to replace or supplement faulty genes in the body, while in RNA interference therapy, small pieces of RNA are used to selectively silence or "turn off" specific genes that are involved in disease processes.

Overall, the segments of genetic material used in nucleic acid therapeutics are carefully designed and optimized to achieve specific therapeutic goals and minimize potential side effects.

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Key challenges in the development of nucleic acid therapeutics include delivery method, specificity, stability, safety, and cost.

Delivery method: The delivery of nucleic acid therapeutics to the target cells is a critical factor for their success. The delivery method needs to be effective in getting the nucleic acid into the target cells without causing damage or triggering an immune response.

Specificity: Nucleic acid therapeutics need to be designed to target specific genes or cellular processes that are involved in the disease. Specificity is important to avoid unintended effects on healthy cells or other biological processes.

Stability: Nucleic acid therapeutics are sensitive to degradation by enzymes and other factors in the body. Ensuring their stability and activity in the target tissue is important for their efficacy.

Safety: Safety is a crucial factor in any therapeutic development. Nucleic acid therapeutics must be carefully designed to minimize potential side effects and avoid triggering an immune response.

Cost: The cost of developing and manufacturing nucleic acid therapeutics is another important

factor. These therapies are often complex and expensive to produce, which can impact their accessibility and availability to patients.

Overall, addressing these factors is critical for the successful development and implementation of nucleic acid therapeutics in clinical practice.

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The market across North America generated more than two-fifths of the global market revenue in 2021, and is anticipated to retain the lion's share by 2031. The Asia-Pacific region, on the other hand, would also manifest the fastest CAGR of 13.8% during the forecast period. The other regions studied in the report include LAMEA and Europe.

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The key market players analyzed in the global nucleic acid therapeutics market report include Cascades, DS Smith Plc, Evergreen Packaging LLC, International Paper, MetsÃ¢ Board, Mondi Plc, Nippon Paper Industries Co. Ltd., Nampak Products Ltd., Amcor Plc, Nine Dragons Paper (Holdings), Oji Fibre Solutions (NZ) Ltd., Sappi, Stora Enso, Smurfit Kappa Group Plc., Svenska Cellulosa Aktiebolaget (SCA), Westrock, and Keystone Folding Box. These market players have embraced several strategies including partnership, expansion, collaboration, joint ventures, and others to highlight their prowess in the industry. The report is helpful in formulating the business performance, product portfolio, operating segments, and developments by the top players.

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[Surgical Microscopes Market](#)

[Advanced Wound Care Market](#)

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