

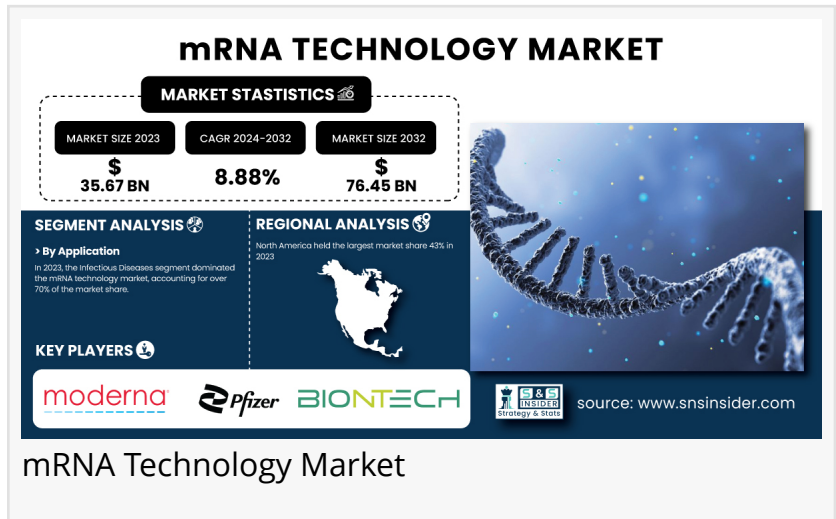
mRNA Technology Market Projected to Reach USD 76.45 Billion by 2032 - SNS INSIDER

Driven by Breakthroughs in Cancer Immunotherapy, Infectious Disease Vaccines, and Advanced Delivery Systems, the Market Continues to Expand at a 8.88% CAGR.

AUSTIN, TX, UNITED STATES, February 17, 2025 /EINPresswire.com/ --

According to Research by SNS Insider, The [mRNA Technology Market](#), valued at USD 35.67 billion in 2023, is projected to surge to USD 76.45 billion by 2032, growing at an impressive

CAGR of 8.88% during the forecast period 2024 to 2032. This rapid expansion is fueled by advancements in vaccine development, oncology applications, and next-generation delivery technologies.



Key Players in mRNA Technology Market

- Moderna, Inc.
- Pfizer
- BioNTech SE
- CureVac N.V.
- Arcturus Therapeutics
- Sanofi
- Genentech (Roche)
- Vaxart
- eTheRNA immunotherapies
- GSK (GlaxoSmithKline)
- Helmholtz Center for Infection Research (HZI)
- AstraZeneca
- Tiba Biotech
- Acuitas Therapeutics
- Recode Therapeutics
- Vertex Pharmaceuticals

- Beam Therapeutics
- RaNA Therapeutics
- Sangamo Therapeutics
- Intellia Therapeutics
- RNAimmune
- StemiRNA Therapeutics
- Genevant Sciences
- Orbital Therapeutics

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By Technology, the infectious diseases segment led the mRNA technology market in 2023, accounting for over 70% of the market share.

This dominance is largely attributed to the success of mRNA vaccines, particularly in the wake of the COVID-19 pandemic. mRNA technology is extremely effective for the quick development of vaccines, and this success has driven its application for other infectious diseases like influenza and Zika virus. Therefore, the continuous investments in mRNA vaccine research continue to drive this segment's growth. This common use in infectious diseases is an exemplar of mRNA technology's ability to tackle global health emergencies with speed and efficiency. The quick pace of vaccine development and approval has turned this market segment into a major driver of global healthcare innovation.

The cancer immunotherapy category is the most rapidly expanding in the mRNA technology market. The category experienced an upsurge in research and development in 2023 as mRNA technology promises personalized cancer therapies by inducing antigens that activate immune responses. This segment is growing with increased awareness of cancer's genetic foundation and the ability of mRNA-based treatments to elicit the body's immune system against and kill cancer cells. Given the increased incidence of different cancers and the demand for novel treatments, mRNA cancer immunotherapy is bound to transform oncology, leading to faster growth for this segment in the future.

By Delivery Method, Lipid nanoparticles held the largest share of the mRNA technology market in 2023, comprising 80% of the market share.

These nanoparticles are found to encapsulate mRNA most effectively and guarantee its delivery inside cells, due to which they are suitable for vaccine and therapeutic mRNA use. Their established success in vaccines such as the COVID-19 mRNA vaccines has popularized them drastically. Lipid nanoparticles provide stability and enhanced bioavailability of the mRNA payload and are therefore integral to the manufacture of future mRNA therapeutics. This consolidated their leading position in the market and formed the basis for more sophisticated and specific applications across diseases.

The polymeric carriers segment is the most rapid-growing segment of the mRNA technology market. These carriers act as replacements for lipid nanoparticles and possess better stability and lesser toxicity, so they are very suitable for long-term therapeutics. Based on the current advancements in the fields of polymer chemistry and nanotechnology, the segment of polymeric carriers is increasing at a rapid pace because of its suitability to provide better delivery options of greater efficiency with fewer side effects for a host of mRNA treatments.

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Regional Analysis, North America accounted for the largest share of the mRNA technology market in 2023, with a significant 43% market share.

The dominance of the region is due to the region's sophisticated healthcare infrastructure, strong research and development environment, and early embracement of mRNA vaccines. The United States, more specifically, has been a leader in this regard, with large pharmaceutical firms and research institutions taking charge of developing and selling mRNA-based products. The proper implementation of mRNA COVID-19 vaccines further entrenched North America's position in the region.

Conversely, the Asia-Pacific region is witnessing high development in the mRNA technology market. With rising healthcare investments, an increase in the burden of chronic diseases, and expanding healthcare infrastructure, nations such as China, India, and Japan are emerging as players in mRNA development and production. The region's huge population and demand for cutting-edge healthcare solutions make it a hub for market growth, especially as demand for vaccines and precision therapies keeps on increasing.

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