

**RNA Therapy Clinical Trials Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028**

**Segmented By Modality (RNA interference, Antisense therapy, Messenger RNA, Oligonucleotide, non-antisense, non-RNAi), By Phase (Phase I, Phase II, Phase III, Phase IV), By Therapeutic Areas (Rare Diseases, Anti-infective, Anticancer, Neurological, Alimentary/Metabolic, Musculoskeletal, Cardiovascular Respiratory, Sensory, Others), By Region, Competition, Forecast and Opportunities, 2028**

Market Report (3 business days) | 2023-10-03 | 190 pages | TechSci Research

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**Report description:**

The Global RNA Therapy Clinical Trials Market recorded a valuation of USD 2.62 Billion in 2022 and is expected to experience substantial growth in the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 5.06% and expected to reach USD 3.49 Billion through 2028. RNA therapy, a cutting-edge field of medical research, has emerged as a promising avenue for developing innovative treatments for a wide range of diseases. This novel approach harnesses the power of ribonucleic acid (RNA) to modulate gene expression and provide therapeutic benefits.

**Market Overview:**

The global RNA therapy clinical trials market has gained significant traction in recent years, revolutionizing the healthcare landscape and offering potential solutions for previously untreatable conditions. RNA therapy operates on the principle of utilizing RNA molecules, including messenger RNA (mRNA), small interfering RNA (siRNA), and antisense oligonucleotides (ASOs), to target specific genes and regulate their activity. This precision-based approach holds immense potential for addressing genetic

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disorders, infectious diseases, cancer, and even rare conditions that lack effective treatment options. Unlike traditional pharmaceuticals, RNA therapies aim to intervene at the genetic level, potentially providing more targeted and personalized treatments.

#### Key Market Drivers:

##### 1. Rapid Advancement in RNA Technology:

Rapid advances in RNA technology have significantly propelled the Global RNA Therapy Clinical Trials Market, revolutionizing the landscape of medical research and healthcare. These breakthroughs are driving the development of innovative RNA-based therapies with the potential to address a wide spectrum of diseases and conditions.

##### 2. Success of mRNA Vaccines:

The resounding success of mRNA vaccines has reverberated across the Global RNA Therapy Clinical Trials Market, catalyzing a paradigm shift in medical research and therapeutic development. The unprecedented achievements of mRNA vaccines have illuminated the immense potential of RNA-based therapies and spurred accelerated advancements in the field.

##### 3. Technological Innovation:

Technological innovation stands as a driving force within the Global RNA Therapy Clinical Trials Market, ushering in transformative advancements that are reshaping the landscape of medical research and therapeutic development. These innovations span a range of areas critical to the success of RNA-based therapies and hold the potential to overcome challenges, enhance efficacy, and accelerate the translation of cutting-edge science into tangible clinical applications.

#### Key Market Challenges:

##### 1. Delivery Challenges:

Delivery challenges are a critical aspect of the Global RNA Therapy Clinical Trials Market, representing a complex hurdle that researchers and developers must overcome to ensure the safe and effective administration of RNA-based therapies. These challenges center around the successful and targeted delivery of RNA molecules to specific cells or tissues within the body, a fundamental requirement for achieving the desired therapeutic outcomes.

##### 2. Stability and Half-Life:

Stability and half-life are crucial considerations in the Global RNA Therapy Clinical Trials Market, playing a pivotal role in determining the effectiveness, safety, and practicality of RNA-based therapies. These factors directly impact the therapeutic potential of RNA molecules and their ability to deliver sustained and desired outcomes.

#### Key Market Trends:

##### 1. Personalized and Precision Medicine:

Personalized and precision medicine represents a transformative approach within the Global RNA Therapy Clinical Trials Market, heralding a new era of tailored treatments that leverage individual genetic information to enhance therapeutic efficacy and minimize adverse effects.

##### 2. Gene Editing Integration:

Gene editing integration represents a groundbreaking frontier within the Global RNA Therapy Clinical Trials Market, where the convergence of RNA-based therapies and advanced gene editing technologies is unlocking new avenues for targeted and precise interventions at the genetic level.

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## Segmental Insights:

### Modality Insights:

In 2022, the RNA Therapy Clinical Trials Market was dominated by the messenger RNA segment, primarily due to the use of mRNA-based vaccinations and their potential in various disease states.

### Phase Insights:

In 2022, the RNA Therapy Clinical Trials Market was dominated by phase II clinical trials, as they play a crucial role in determining the ideal dose and dosing regimen for RNA therapies.

### Regional Insights:

In 2022, North America led the RNA Therapy Clinical Trials Market due to early adoption, robust research infrastructure, a favorable regulatory environment, and a strong biotechnology and pharmaceutical industry.

In conclusion, the Global RNA Therapy Clinical Trials Market is poised for significant growth, driven by rapid advancements in RNA technology, the success of mRNA vaccines, and ongoing technological innovations. While challenges such as delivery and stability must be addressed, the integration of personalized medicine and gene editing holds promise for reshaping the landscape of medical care and treatment.

### Key Market Players

- IQVIA
- ICON Plc
- Laboratory Corporation of America Holdings
- Charles River Laboratories International, Inc.
- PAREXEL International Corp.
- Syneos Health
- Medpace Holdings, Inc.
- Novotech
- Veristat, LLC.
- Veristat, LLC.

### Report Scope:

In this report, the Global RNA Therapy Clinical Trials Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### 2. Global RNA Therapy Clinical Trials Market, By Modality:

- RNA interference
- Antisense therapy Messenger RNA
- Oligonucleotide
- Non-antisense
- Non-RNAi

#### 3. Global RNA Therapy Clinical Trials Market, By Phase:

- Phase I
- Phase II
- Phase III
- Phase IV

#### 4. Global RNA Therapy Clinical Trials Market, By Therapeutic Area:

- Rare Diseases
- Anti-infective
- Anticancer

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- Neurological
- Alimentary/Metabolic
- Musculoskeletal
- Cardiovascular Respiratory
- Sensory
- Others

#### 5.□Global RNA Therapy Clinical Trials Market, By Region:

- North America
  - 5...1.□United States
  - 5...2.□Canada
  - 5...3.□Mexico
- Europe
  - 5...1.□Germany
  - 5...2.□France
  - 5...3.□United Kingdom
  - 5...4.□Italy
  - 5...5.□Spain
- Asia-Pacific
  - 5...1.□China
  - 5...2.□Japan
  - 5...3.□India
  - 5...4.□South Korea
  - 5...5.□Australia
  - 5...6.□Singapore
- South America
  - 5...1.□Brazil
  - 5...2.□Argentina
  - 5...3.□Colombia
- Middle East & Africa
  - 5...1.□UAE
  - 5...2.□Saudi Arabia
  - 5...3.□South Africa

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global RNA Therapy Clinical Trials Market.

Available Customizations:

Global RNA Therapy Clinical Trials Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

- 6.□Detailed analysis and profiling of additional market players (up to five).

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