

# Rare NRG1 Fusion Market Size in the 7MM was ~USD 37 million in 2023, estimated DelveInsight

## Rare NRG1 Fusion Market Size

DELHI, DELHI, INDIA, June 6, 2024 /EINPresswire.com/ -- DelveInsight's "Rare NRG1 Fusion Market Insights, Epidemiology, and Market Forecast – 2034" report delivers an in-depth understanding of Rare NRG1 Fusion, historical and forecasted epidemiology as well as the Rare NRG1 Fusion market trends in the United States, EU4 (Germany, Spain, Italy, and France) and the United Kingdom, and Japan.



Rare NRG1 Fusion Market Size

## Key Takeaways from the Rare NRG1 Fusion Market Report

- Among the 7MM, the US accounted for the highest incident cases of NRG1 Fusion in 2023.
- In 2023, the total Incident cases of NRG1 Fusion were approximately 2,000 cases in the US, which is expected to grow during the forecast period.
- Among EU4 and the UK, Germany accounted for the highest number of NRG1 Fusion Incident cases, while Spain accounted for the least Incident cases.
- Among the stage-specific incident cases of NRG1 Fusion, metastatic cases contribute the most in the US.
- NSCLC accounts for around 40% of total treated cases of NRG1 Fusions in 2023.
- The leading Rare NRG1 Fusion Companies such as Elevation Oncology, Merus, Hummingbird Bioscience, Boehringer Ingelheim, AVEO Oncology and CANbridge Pharmaceuticals, Salubris Biotherapeutics, and others.
- Promising Rare NRG1 Fusion Companies such as Seribantumab (MM-121), Zenocutuzumab (Zeno, MCLA-128), HMBD-001, Afatinib, AV-203 (CAN017), JK07, and others.

Discover which therapies are expected to grab the Rare NRG1 Fusion Market Share @ [Rare NRG1 Fusion Market Outlook](#)

Rare NRG1 Fusion Overview

A Rare NRG1 Fusion is a genetic anomaly involving the fusion of the NRG1 gene, which encodes for a protein crucial in cell signaling pathways. This fusion event results in a unique molecular alteration that can have significant implications in medical research and clinical practice. Studying such rare fusions is pivotal as they may offer insights into novel disease mechanisms or potential therapeutic targets. The rarity of NRG1 fusions underscores their complexity and the challenges in understanding their full impact on biological processes. Comprehensive genomic analysis and advanced molecular techniques are essential for accurately detecting and characterizing these fusions, paving the way for personalized approaches to treatment and management of associated conditions.

#### Rare NRG1 Fusion Epidemiology Segmentation in the 7MM

- Incident cases of specific cancer types (lung, pancreatic, breast, and others)
- Diagnosed and Treatable Cases in the respective cancer types
- Incident cases of Rare NRG1 Fusion in the respective cancer types

Download the report to understand which factors are driving Rare NRG1 Fusion Epidemiology trends @ [Rare NRG1 Fusion Epidemiological Insights](#)

#### Rare NRG1 Fusion Treatment Landscape

Cancer treatment is the use of surgery, radiation, medications and other therapies to cure a cancer, shrink a cancer or stop the progression of a cancer. There are many types of cancer treatment. The types of treatment that a patient receives will depend on the type of cancer they have and how advanced it is. Some people with cancer will have only one treatment. But most people have a combination of treatments, such as surgery with chemotherapy and/or radiation therapy. Cancer treatments may be used as primary treatment, adjuvant treatment and palliative treatment.

#### Rare NRG1 Fusion Market Insights

NRG1 fusions arising from chromosomal rearrangements occur at low frequencies (< 1%) across solid tumors but are enriched in certain cancer types, including KRAS wild-type pancreatic cancer, driver-negative non-small cell lung cancer (NSCLC), and the invasive mucinous adenocarcinoma subtype of lung cancer. NRG1 fusions have a unique biology and are challenging to detect, due to large intronic regions of the gene, but they do represent possible therapeutic targets. Several agents targeting the ErbB signaling pathway have shown early evidence of efficacy including pan-ErbB kinase inhibitors, monoclonal antibodies, and bispecific antibodies.

#### Rare NRG1 Fusion Drug Market

The pipeline of drugs for Rare NRG1 Fusion is quite weak as it possess very few potential key players, such as Elevation Oncology and Merus. Additionally, Hummingbird Bioscience also has a lead candidate in the early stages of development. However, the dynamics of the market is anticipated to change in the coming years owing to the improvement in the research and development activities so that market will comprise of efficient treatment options. The launch of

emerging therapies is expected during the forecast period of 2024-2034.

#### Rare NRG1 Fusion Drugs Uptake

- Elevation Oncology is developing Seribantumab (MM-121), a fully human monoclonal antibody designed to stop the HER3 signaling that sustains an NRG1 fusion-positive tumor. The drug binds to HER3 to restrict its over activation by the NRG1 fusion protein. The company believes that their potential drug candidate may offer a precise treatment path forward for patients whose tumor growth is driven by an NRG1 fusion. The drug also interferes with the dimerization of HER3 with other ERBB family members and blocks the phosphorylation of all ERBB family members and activation of the PI3K and MAPK downstream signaling pathways. The drug was originally developed and tested by Merrimack Pharmaceuticals who sold the drug to Elevation Oncology.
- Merus is developing Zenocutuzumab (Zeno, MCLA-128) in patients with solid tumors harboring an NRG1 fusion. MCLA-128 is an antibody-dependent cell-mediated cytotoxicity (ADCC)-enhanced Biclones that targets the HER3 pathway. The bispecific antibody docks on HER2, abundantly expressed on tumor cells, and subsequently efficiently blocks heregulin-stimulated growth of tumor cells by binding to HER3. The drug is designed to overcome the inherent and acquired resistance of tumor cells to HER2-targeted therapies using two mechanisms: 1) blocking growth and survival pathways to stop tumor expansion and 2) recruitment and enhancement of immune effector cells to eliminate the tumor. In July 2020, the US FDA granted Orphan Drug Designation to Zenocutuzumab for the treatment of patients with pancreatic cancer. The drug also received a Fast Track designation for zenocutuzumab in the US for the treatment of patients with metastatic solid tumor harboring NRG1 gene fusions.
- Hummingbird Bioscience's HMBD-001 represents a unique, highly-specific, anti-HER3 neutralizing antibody with a novel mechanism of action that offers significant potential for broad clinical benefit. Pre-clinical models have shown that HMBD-001 is able to effectively and uniquely bind to a difficult-to-target region on HER3, blocking the heterodimerization of HER3 with HER2/EGFR independent of NRG1 binding. This potently inhibits the activation of the signaling pathway – and consequently, stops tumor growth. HMBD-001 was developed using Hummingbird Bioscience's proprietary Rational Antibody Discovery Platform to specifically bind to and inhibit a difficult-to-access region of the HER3 protein that is essential for activation. Cancer Research UK has partnered with Hummingbird Bioscience to advance this novel antibody drug into clinical trials for the treatment of HER3-driven cancer.

#### Rare NRG1 Fusion Market Dynamics

The rare NRG1 fusion market dynamics are anticipated to change in the coming years. The identification of NRG1 as a potential target for treating different types of cancer, particularly NRG1+ NSCLC, has showcased a major strength in the rare NRG1 fusion market. Studies confirm that drugs aimed at NRG1 are positively impacting patients, leading to an increasing focus by various organizations on understanding and disseminating information about the role of NRG1 Fusion in cancer. This growing attention positions NRG1 fusions as a crucial target for innovative

therapies, thereby paving the way for new treatments and a market boost focused on NRG1 fusion-specific therapies.

### Scope of the Rare NRG1 Fusion Market Report

- Coverage- 7MM
- Rare NRG1 Fusion Companies- Elevation Oncology, Merus, Hummingbird Bioscience, Boehringer Ingelheim, AVEO Oncology and CANbridge Pharmaceuticals, Salubris Biotherapeutics, and others.
- Rare NRG1 Fusion Companies- Seribantumab (MM-121), Zenocutuzumab (Zeno, MCLA-128), HMBD-001, Afatinib, AV-203 (CAN017), JK07, and others.
- Rare NRG1 Fusion Market Dynamics: Rare NRG1 Fusion Market Drivers and Barriers
- Rare NRG1 Fusion Market Access and Reimbursement, Unmet Needs and Future Perspectives

Discover more about Rare NRG1 Fusion Drugs in development @ [Rare NRG1 Fusion Clinical Trials Assessment](#)

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