

Rat Model Market Outlook Signals Expansion To \$2.8 Billion Through 2030

The Business Research Company's Rat Model Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

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/EINPresswire.com/ -- An Overview of the Growing [Rat Model Market](#)

The rat model market has experienced significant expansion in recent years and continues to show promising growth potential. This sector plays a vital role in biomedical research and drug discovery, with increasing applications driving its development. Let's explore the current market size, growth factors, regional trends, and future prospects shaping this important industry.

Steady Expansion of the [Rat Model Market Size](#)

The rat model market is set to increase from \$1.75 billion in 2025 to \$1.92 billion in 2026, growing at a compound annual growth rate (CAGR) of 9.4%. This earlier growth has been fueled by rising biomedical research activities, an uptick in the use of animal models for drug development, growth in academic research institutions, availability of various inbred and outbred rat strains, and higher demand for toxicology testing.

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Future Growth Outlook for the Rat Model Market

Looking ahead, the market is projected to reach \$2.8 billion by 2030, with a slightly faster CAGR of 9.9%. This future growth is driven by increasing investment in precision medicine, a growing need for predictive disease models, expanded applications of gene-editing technologies, greater emphasis on lowering clinical trial failure rates, and wider adoption of humanized rat platforms. Key trends expected to influence the market include the rising use of CRISPR-based rat models, demand for immunodeficient and humanized rats, enhanced preclinical disease modeling, advancements in genetic editing, and a focus on improving translational research accuracy.

The logo for The Business Research Company, featuring the company name in a serif font and a stylized bar chart with three bars of increasing height to the right.

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Understanding Rat Models in Biomedical Research

Rat models involve using rat genes, cells, tissues, and organs to replicate both healthy and disease conditions of the human immune system. These models, including humanized rats, are essential in preclinical research because they simulate human diseases, assist in evaluating drug efficacy, and help study the impact of compounds on human proteins.

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Key Factors Accelerating Demand in the Rat Model Market

The increasing need for new and effective medicines is a primary driver for the rat model market's growth. Rats are preferred in research due to their smaller size and easier maintenance compared to more complex mammals like primates, making them a convenient and cost-effective option. For example, in July 2024, the National Center for Biotechnology Information reported that medicine spending in the United States surged by 13.6% in 2023 over the previous year, reaching \$722.5 billion. This rise in pharmaceutical demand directly boosts the need for rat models.

Regional Insights Highlighting Market Expansion

In 2025, North America held the largest share of the rat model market, reflecting its strong research infrastructure and pharmaceutical industry. Meanwhile, the Asia-Pacific region is expected to be the fastest-growing market during the forecast period, driven by expanding biomedical research and increasing investments. The market analysis also covers regions such as South East Asia, Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a comprehensive global perspective.

Expanded capabilities in our 2026 market reports:

- Market attractiveness scoring and analysis
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- Updated graphics and tables

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