

Animal Model Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Animal Type (Mice, Rat, Guinea Pigs, Rabbits, Hamsters, Others), By Application (Cancer, Immunological Disease, Infectious Disease, Others), By Distribution Channel (Pharmaceutical & Biotechnology Companies, Academic Research Institute, Contract Research Organization) Region and Competition

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Abstracts

Global Animal Model Market was valued at USD 1.67 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 7.64% through 2028. The global animal model market is a dynamic and rapidly evolving sector of the life sciences industry, serving as a crucial tool for biomedical research and drug development.

Animal models, which include a wide range of species from mice and rats to primates, are utilized to mimic human physiological and pathological conditions, enabling scientists to study diseases, test potential treatments, and gain valuable insights into biological mechanisms. The global animal model market is poised for substantial growth due to increasing investments in pharmaceutical and biotechnology research, rising demand for personalized medicine, and the need for innovative therapies and vaccines.

One key driver of the animal model market is the growing prevalence of chronic diseases and infectious illnesses, necessitating the development of novel pharmaceuticals and treatments. Animal models play a pivotal role in preclinical testing, helping researchers assess drug safety and efficacy, thus reducing the risk associated with human trials.

The market is also influenced by advancements in genetic engineering, allowing for the creation of genetically modified animals that closely mimic human conditions. These genetically engineered models are invaluable for the study of genetic disorders and personalized medicine approaches.

Furthermore, regulatory agencies have emphasized the importance of ethical considerations and animal welfare, resulting in the development of alternative methods such as in vitro testing and computational modeling. However, animal models remain indispensable for complex, whole-organism studies and continue to be the gold standard in certain research areas.

Key Market Drivers

Rising Prevalence of Chronic Diseases

The rising prevalence of chronic diseases is a significant factor propelling the growth of the global animal model market. Chronic diseases, including cancer, diabetes, cardiovascular conditions, and neurological disorders, have reached epidemic proportions worldwide, imposing a substantial burden on healthcare systems and economies. In response to this health crisis, there is an ever-increasing demand for effective treatments and therapies. Animal models are at the forefront of preclinical research, providing a vital tool for understanding disease mechanisms and testing potential interventions.

Animal models serve as invaluable surrogates for human physiology, offering a means to simulate the complexities of chronic diseases and study their progression. Researchers can replicate the pathophysiological processes within animals, allowing for the investigation of disease etiology, drug efficacy, and safety profiles. This capability significantly reduces the inherent risks of advancing unproven therapies directly to human clinical trials.

Moreover, the use of animal models enables researchers to explore novel therapeutic avenues, develop innovative drug candidates, and fine-tune treatment regimens. By replicating the pathological conditions of chronic diseases in animal subjects, scientists can gain insights into potential therapeutic targets and mechanisms that would be challenging to investigate in any other way.

The animal model market's growth is further driven by the urgency to find solutions for

these chronic diseases, as the prevalence of such conditions continues to climb. Pharmaceutical companies, biotechnology firms, and research institutions are increasingly reliant on animal models to facilitate their drug development processes. These models contribute to better understanding the safety, efficacy, and potential side effects of new pharmaceuticals, leading to accelerated research and development cycles.

Advancements in Genetic Engineering

Advancements in genetic engineering have emerged as a substantial driver behind the rapid growth of the global animal model market. These innovations have revolutionized the way researchers utilize animal models, making them more precise, versatile, and reflective of human physiological and pathological conditions. The ability to engineer animals with specific genetic modifications has opened new frontiers in biomedical research, drug development, and the study of genetic disorders.

Genetic engineering has allowed scientists to create genetically modified animals that closely mimic human genetic traits and diseases. By introducing, modifying, or silencing specific genes in animal models, researchers can create precise replicas of human conditions, including genetic disorders, cancers, and neurodegenerative diseases. These genetically engineered models provide a more accurate representation of the biological processes and pathways involved, enabling researchers to gain insights that were previously unattainable.

One of the key applications of genetically engineered animal models is in the development of personalized medicine. These models are essential in understanding how individual genetic variations influence drug responses and disease outcomes. Researchers can tailor treatments to specific genetic profiles, improving therapeutic effectiveness and reducing the risk of adverse reactions. This personalized medicine approach has the potential to transform healthcare by offering more targeted and efficient treatments.

Furthermore, genetic engineering has led to the creation of disease-specific animal models, which are instrumental in drug discovery and development. Pharmaceutical companies use these models to test potential drugs and therapies, allowing them to identify promising candidates and screen out ineffective or unsafe options. This accelerates the drug development process and reduces the time and cost associated with bringing new medications to the market.

Drug Discovery and Development

The process of drug discovery and development stands as a cornerstone of the global pharmaceutical and biotechnology industry, and it significantly drives the demand and growth of the global animal model market. Animal models have become indispensable tools in these industries, playing a pivotal role in every stage of the drug development pipeline. Their contribution to testing and validating potential drugs and therapies has streamlined research, improved the success rate of drug candidates, and reduced the time and costs associated with bringing new medications to market.

In the early stages of drug discovery, animal models are essential for evaluating the safety and efficacy of potential drug candidates. By administering experimental compounds to these models, researchers can assess how they interact with living organisms, determine their pharmacological properties, and identify any potential adverse effects. These critical insights are fundamental for making informed decisions about whether to advance a drug candidate to clinical trials.

Animal models also play a vital role in understanding the pharmacokinetics and pharmacodynamics of drugs, helping researchers determine the most appropriate dosages and administration routes for human trials. Additionally, these models are used to study the mechanisms of action and potential side effects of drug candidates, which is crucial for regulatory approval and patient safety.

Throughout clinical development, animal models are employed to test the effectiveness of drugs in treating specific diseases or conditions. These models provide critical data on treatment outcomes, helping researchers refine their approaches and optimize therapeutic regimens. They are particularly invaluable in studying complex diseases like cancer and neurological disorders, where in vivo models are essential to replicate the multifaceted nature of these conditions.

Key Market Challenges

Development of Ethical Concerns and Animal Welfare

The global animal model market, a linchpin of biomedical research and drug development, faces a formidable challenge from the escalating ethical concerns surrounding animal welfare. As society becomes increasingly conscious of the moral implications of using animals in research, these concerns have the potential to hinder the growth and evolution of the animal model market.

One of the central challenges is the ethical dilemma associated with animal experimentation. Many individuals, animal welfare organizations, and advocacy groups contend that the use of animals in research raises serious ethical questions regarding the treatment and suffering of sentient beings. The debate over the morality of using animals for scientific experiments has led to increasing calls for more stringent regulations and the development of alternative methods that do not involve animals.

As ethical concerns grow, there is greater scrutiny of animal welfare in research settings. Researchers are under increasing pressure to improve animal care, reduce suffering, and minimize the use of animals whenever possible. This, in turn, has raised the bar for standards and practices in the field, leading to more rigorous requirements for housing, enrichment, and veterinary care of research animals. These higher standards often translate into additional costs for research institutions and organizations.

Additionally, ethical concerns are accompanied by a push for transparency in animal research. The public and advocacy groups are calling for increased openness about the conditions and practices in laboratories, a demand that has implications for the animal model market.

Development of Alternative Testing Methods

The global animal model market, a cornerstone of biomedical research and drug development, is facing a challenge from the development of alternative testing methods. While these alternatives offer promise in terms of ethical considerations and sometimes cost efficiency, they have the potential to hinder the animal model market's growth and adaptation.

One of the primary challenges is the ongoing development and refinement of in vitro testing methods, computational modeling, and organ-on-a-chip technology. These alternatives aim to reduce or replace the use of animals in scientific research. While this shift toward alternative methods is driven by ethical concerns, it presents a hurdle for the animal model market, particularly in scenarios where animals have been the gold standard for comprehensive research.

In vitro testing, which involves conducting experiments in a controlled laboratory environment outside living organisms, is one of the main alternative approaches. It has the advantage of reducing animal suffering and can be less costly than maintaining

animal colonies. However, these methods may not always fully replicate the complexity of whole-organism studies, which is a limitation when it comes to some types of research.

Key Market Trends

Advancements in Non-Rodent Models

Advancements in non-rodent models are emerging as a significant driver behind the growth of the global animal model market. While rodents, particularly mice and rats, have traditionally been the primary subjects of animal research, there is a growing trend towards diversification as researchers seek more physiologically relevant models that closely mimic human biology. Non-human primates, pigs, dogs, and other species are becoming increasingly valuable in various research applications, driving the market's expansion and adaptability.

Non-rodent animal models offer several advantages. They provide a closer approximation of human physiology, making them crucial for translational research where the goal is to bridge the gap between preclinical studies and human clinical trials. For example, non-human primates share a closer genetic and physiological resemblance to humans, making them invaluable in the development of therapies for diseases with complex genetic and immunological components.

In cancer research, canine models have proven highly relevant, as they naturally develop certain types of cancer that closely resemble human malignancies. These models allow researchers to study disease progression, test novel therapies, and refine treatment approaches. Similarly, non-human primates have been pivotal in advancing our understanding of infectious diseases, neuroscience, and vaccine development due to their physiological and immunological similarities to humans.

Advancements in non-rodent models are also contributing to the study of personalized medicine. Personalized medicine aims to tailor treatments to an individual's genetic and molecular profile, and non-rodent models are increasingly playing a role in developing and testing such tailored therapies.

Increased Use of Genetically Engineered Models

The increased use of genetically engineered models is serving as a powerful catalyst for the growth of the global animal model market. Genetic engineering techniques,

particularly those involving CRISPR-Cas9 technology, have revolutionized the field of animal modeling, enabling researchers to create highly specific and tailored models that closely mimic human genetic conditions and diseases. This trend is reshaping the landscape of biomedical research and drug development.

Genetically engineered models offer several key advantages. They allow scientists to precisely manipulate the genes of animals to replicate specific human genetic traits, disorders, and mutations. This level of precision enables researchers to create animal models that closely mimic the genetic underpinnings of human diseases, making them invaluable tools for studying genetic disorders and the development of personalized medicine approaches.

The development of genetically engineered models has been instrumental in advancing research in areas like cancer, cardiovascular disease, neurodegenerative conditions, and rare genetic disorders. By introducing or modifying specific genes, researchers can create animal models that not only replicate the genetic aspects of these diseases but also allow for the testing of potential therapies and interventions.

Furthermore, genetically engineered models play a pivotal role in translational research, bridging the gap between basic science and clinical applications. They provide researchers with a more precise and tailored platform for studying the mechanisms of diseases, testing new drugs, and understanding the effects of genetic variations on disease outcomes.

This trend also aligns with the growing focus on personalized medicine, where treatments are tailored to an individual's genetic makeup and disease profile. Genetically engineered animal models are indispensable in understanding how specific genetic variations impact drug responses and disease outcomes. They contribute to the development of targeted therapies and the optimization of treatment regimens, making them a vital component of the evolving field of personalized medicine.

Segmental Insights

Animal Type Insights

Based on the Animal Type, Mice emerged as the dominant segment in the global market for Global Animal Model Market in 2022. Mice share a significant genetic and physiological resemblance to humans, making them a valuable model for studying various diseases and conditions. Their genomes have been well-studied and are highly

informative for researchers, particularly in the field of genetics and genomics. Mice are relatively easy to genetically modify, which has been further facilitated by the development of advanced genetic engineering techniques like CRISPR-Cas9. Researchers can create mice models with specific genetic mutations or alterations to mimic human genetic conditions, making them a versatile tool for studying various diseases.

Application Insights

Based on the Application, Cancer emerged as the dominant segment in the global market for Global Animal Model Market in 2022. Cancer is a highly complex and multifaceted disease with a significant global health burden. The intricate nature of cancer, involving genetic mutations, tumor development, metastasis, and the complex interactions between cancer cells and the immune system, necessitates the use of sophisticated animal models for research. The global prevalence of cancer further underscores its importance as a research area, as it drives the demand for animal models that can accurately replicate various aspects of the disease. Translational research aims to bridge the gap between basic scientific findings and clinical applications. Animal models are pivotal in translational cancer research, helping scientists understand the transition from preclinical studies to human clinical trials. These models allow for the investigation of treatment responses and the development of therapeutics that can ultimately benefit patients.

Regional Insights

North America emerged as the dominant player in the global Animal Model Market in 2022, holding the largest market share. North America, particularly the United States, is home to a thriving and well-established biomedical and pharmaceutical industry. The presence of numerous pharmaceutical and biotechnology companies, academic research institutions, and medical centers drives the demand for animal models. These organizations heavily rely on animal models for preclinical research and drug development, contributing significantly to the market's growth. North America boasts a robust research infrastructure, featuring state-of-the-art research facilities, well-equipped laboratories, and advanced technologies. This strong infrastructure supports the breeding, maintenance, and experimentation with animal models, making it an attractive region for research that depends on these models.

Key Market Players

Charles River Laboratories

The Jackson Laboratory

genOway

Taconic Biosciences, Inc.

Janvier Labs

Harbour BioMed

Crown Bioscience

Inotiv

BIOCYTOGEN

BioSpherix, Ltd

Report Scope:

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

Global Animal Model Market, By Animal Type:

Mice

Rat

Guinea Pigs

Rabbits

Hamsters

Others

Global Animal Model Market, By Application:

Cancer

Immunological Disease

Infectious Disease

Others

Global Animal Model Market, By Distribution Channel:

Pharmaceutical & Biotechnology Companies

Academic Research Institute

Contract Research Organization

Global Animal Model Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Animal Model Market.

Available Customizations:

Global Animal Model 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

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

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