

Mice Model Market By Type (Inbred Mice, Outbred Mice, Genetically Engineered Mice), Service (Breeding, Rederivation), Therapeutic Area (Oncology, Heart Disease), Technology (CRISPR Cas9, SCNT), Mice Care Product (Cage, Feed), And End User- Global Forecast To 2023

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Abstracts

Mice Model Market by Type (Inbred Mice, Outbred Mice, Genetically Engineered Mice), Service (Breeding, Rederivation), Therapeutic Area (Oncology, Heart Disease), Technology (CRISPR Cas9, SCNT), Mice Care Product (Cage, Feed), and End User- Global Forecast to 2023

Rising prevalence of Cancer and Research Grants Favours the Adoption of Mice Models to Drive Demand

According to the American Cancer Society, about 1,688,780 new cancer cases were diagnosed in 2017 in the U.S. About 600,920 Americans were expected to die of cancer in 2017, which translate to about 1,650 people per day. Cancer is the second most common cause of death in the U.S., exceeded only by heart diseases, and accounts for nearly 1 of every 4 deaths. In addition, growing geriatric population in the U.S. is the major factor for growing cancer incidence across the U.S. For instance, 87% of all the cancers in the U.S. are diagnosed in people 50 years of age and older.

A substantial proportion of cancers could be prevented, including all the cancers caused by tobacco and heavy alcohol consumption. According to the American Cancer Society epidemiologist, in 2017, about 190,500 of the estimated 600,920 cancers deaths in the U.S. were by cigarette smoking. The screening of cancers can help to prevent colorectal

and cervical cancers by allowing the detection and removal of precancerous lesions. Moreover, screening also offers tremendous opportunity to detect some cancers early, when treatment is less extensive and more likely to be successful.

Significant advances have been made in developing novel therapeutics for cancer treatment, and targeted therapies have revolutionized the treatment of some cancers. Despite the promise, only about five percent of new cancer drugs are approved, and most fail due to lack of efficacy. The indication is that current preclinical methods are limited in predicting successful outcomes. Thus, mouse models can ensure the efficacy and efficiency of particular drug molecule by conducting huge number of clinical trials during drug formulation process. Genetically engineered mouse (GEM) models are a mainstay for basic and translational cancer research. A veritable explosion of GEM models in recent years has been fueled by technological advances that have enabled the rapid generation of models of increasing complexity and relevance for human cancer.

Key Findings in the Mice Model Market:

CRISPR-Cas9 Technology Segment Driving Gains

CRISPR-Cas9 is the leading technology of mice model which represent the largest share of a mice model market. The emergence of CRISPR-Cas9 gene editing technology with its simplicity, versatility, and efficiency has considerably improved the time frame and the process of creating these modified alleles. The technology has enabled rapid production of knockout, conditional alleles or mice carrying single point mutations, which mimic those in human patients, in only several weeks. Thus, CRISPR-Cas9 has quickly become the preferred technology for genetic manipulation and shows incredible promise as a platform for studying gene function in vivo.

China to Witness Fastest Growth

While North America dominates the global mice model (models, services, care products) market, Asia-Pacific (APAC) is estimated to be the fastest growing region due to presence of significant patient pool, especially in rural/remote areas with limited healthcare access, aging population, and rising burden of chronic diseases such as diabetes and cardiovascular diseases. In APAC region, China provides lucrative growth opportunities for the mice model (models, services, care products) market players. Large population base and rising patient pool with chronic diseases that requires extensive treatment for prevention of such diseases, advancement in biological

research due to huge government funding, and well-established research laboratories in the country lay the groundwork for enormous market potential.

This industry study presents historical value market data (2016 and 2017), estimated current year data (2018) and forecasts for 2023 for the following segments. The study also evaluates company market share and analyzes industry competitors including Charles River Laboratories International, Inc. (U.S.), The Jackson Laboratory (U.S.), Laboratory Corporation of America Holdings (U.S.), Horizon Discovery Group plc (U.K.), Trans Genic Inc. (Japan), genOway (France), Taconic Biosciences, Inc. (U.S.), Envigo (U.S.), JANVIER LABS (France), Ingenious Targeting Laboratory (U.S.), and Harbour Antibodies BV (The Netherlands) among others.

Scope of the Report:

Market by Type:

Inbred Mice

Genetically Engineered Mice

Hybrid Mice

Outbred Mice

Immunodeficient Mice

Spontaneous Mutant

Market by Service:

Breeding

Cryopreservation and Cryorecovery

Quarantine

Rederivation

Model In-Licensing

Genetic Testing

Other Services

Market by Therapeutic Area:

Oncology

Immunology and Inflammation

Diabetes

Cardiovascular

Neurobiology

Rare Diseases

Other Diseases

Market by Technology:

CRISPR/Cas9

Embryonic Stem Cell Injection

Microinjection

Somatic Cell Nuclear Transfer

Other Technologies

Market by Mice Care Products:

Cages

Feed

Bedding

Others

Market by End User:

Academic and Research Institutes

Pharmaceutical and Biotechnology Companies

Contract Research Organization

Others

Market by Geography:

North America

U.S.

Canada

Europe

U.K.

Germany

France

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Rest of Asia-Pacific

Latin America

Middle East & Africa

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