Global Rat Model Market Insights, Opportunity Analysis, Market Shares and Forecast, 2017 - 2023

Description: The global rat model market is expected to reach above $358.5 million in 2022 and is anticipated to grow at a CAGR of 9.6% during 2016 to 2022.

Rats have a benefit over other rodent models for pre-clinical and research studies. Ease of monitoring, learning abilities and faster producing embryo cells are some of the advantages of rat models in research. The main drivers of rat model market are applications of personalized human rat models and research & development of pharmaceutical & biotechnology companies. Growing demand for in vitro testing models for research and ethical approach towards animals used in research might challenge rat model market growth for the forecasted period 2016-2022.

Innovations in Genetic Engineering appending demand for genetically modified rat models, advantage of rats over mice in life science research, and research & development of pharmaceutical and biotechnology companies are the drivers for rat model market deliberated in the research report. Growing demand from emerging economies, increase in monoclonal antibody production, and research in personalized medicine increasing demand for rat models, are the opportunities in rat model market analysed in the report.

Ethical use of animals in research, varying regulatory environment with respect to animals in research, increasing adoption of zebrafish model for research, and new in vitro testing models for research are the factors restraining market growth of rat model market for the forecasted period.

The research report is segmented as rat types, technology, application, rat care products and services. Market segment by rat types are further sub segmented into inbred rats, genetically modified rats, hybrid rats, outbred rats and immune-deficient rats. Outbred rats have a higher demand for toxicology research. Technology segment is further divided into nuclear transferase technology, micro injection, embryonic stem cell injection and others. Application segment is classified further into diabetes, toxicology, oncology, immunology & inflammation and others. Rat care products segment in further sub segmented into feed, bedding, cages and others. Service segment is further divided into cryopreservation, breeding, genetic testing and others. Cryopreservation has significant growth rate in the service segment due to less cost to maintain rat strain for a longer time.

The research report analysed rat model market geographically. Region wise the report is segmented as North America, Europe, Asia Pacific, and Rest of the World. North America is the largest rat model market, followed by Europe. Increasing demand for rats in pre-clinical animal trail studies by CROs, pharmaceutical companies, and life science research institutions and availability various types of rat models are the factors driving rat model market in North America for the forecasted period. Rising demand for monoclonal antibodies, growing stem cell research, and clear regulation by European parliament with respect to use of animals in research are the main factors driving rat model market in Europe. Asia Pacific is the fastest growing rat model market for the forecasted period. With increasing expenditure on research & development in life science by government, rising demand from emerging economies like India and China, increasing clinical trial research studies by CRO's and pharmaceutical companies, are the main factors driving rat model market in Asia Pacific for the forecasted period.

Some of the leading companies in rat model market are, Envigo., Charles River Laboratories International Inc., Taconic Biosciences Inc., The Jackson Laboratory., Covance Inc., Janvier Labs., Harbour Antibodies Bv., Transgenic Inc., Genoway S. A., Sage Labs Inc., Ingenious Targeting Laboratory and many more. The report provides comprehensive information like company profile, sales, revenue, market share and contact information.

Hera BioLabs Inc., on 28th April 2016 announced an investment of $1.8 million for its new headquarters in Lexington, U.S. Joint ventures, agreements, partnerships, collaborations, expansion in different countries, and strengthening supply chain network with distributors are some of the strategies taken by pioneers in rat model market, to increase their global presence. Research & development investments are high with the urge to new type of rat models. Small rat model companies with unique and differentiated assets (like disease specific rats production) are driving innovation in rat model market.
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