Knockout Mice Model Market-By Type(Constitutive, Conditional, Safe & Other Knockouts) Technology (Homologous Recombination, Flex, Others) Service; Application - Forecast(2016-2021)

Description: A knockout mouse refers to a laboratory mouse in which researchers have either inactivated or “knocked out” an already existing gene by replacing it or disrupting it by an artificial piece of DNA. The loss of gene activity often causes changes in a mouse phenotype that includes characteristics like appearance, behavior and other observable physical and biochemical characteristics.

Research on knockout mice model indicates that it is the fastest growing market. High investment is expected in the development of new, innovative and better knockout models. Development of new knockout models has also increases the application areas for the models. Mice models are essential tools in research activities with their capability to elucidate human disease processes, because of striking similarities between the anatomy, physiology, and genetics of humans and mice.

These advantages help promote scientific discovery, understanding of the functions of individual genes, mechanisms of different diseases, and the effectiveness and toxicities of various drug molecules. Mice models are the most commonly used animal models due to advantages including their small size, short generation time, accelerated lifespan, low cost, and requirement of less space. These factors thus help in accelerating the research and development of drug therapies.

The Knockout Mice Model market has been segmented into four segments based on the Type, technology, service and application. Each segment is further classified into sub-segments to present an in-depth analysis of the overall market. The market is subsequently classified by geography; the market has been broadly divided into four regions: Americas, Europe, APAC and RoW, which are further divided into various countries.

The global market for knockout mice model market was estimated to be $XX billion in 2015. The global market for knockout mice model market is estimated to grow at a CAGR of XX% and is forecast to reach $XX billion by 2021. The knockout mice model markets are forecast to have the highest growth of XX% during the forecast period 2016-2021. Americas and APAC together are estimated to occupy a share of more than XX% in 2015.

Americas is the leading market for knockout mice model market. APAC region is forecast to have highest growth in the next few years due to growing adoption of knockout mice model market in applications and followed by Europe and RoW. APAC accounts to XX% of the global market for knockout mice model market and is the fastest growing market followed by Europe.

The overall market is also presented from the perspective of different geographic regions and the key countries for this industry. Competitive landscape for each of the product types is highlighted and market players are profiled with attributes of Company Overview, Financial Overview, Business Strategies, Product Portfolio and Recent Developments. The report contains the most detailed and in-depth segmentation of the knockout mice model market.

The major players in this market include:
- The Jackson Laboratory (U.S.)
- Charles River Laboratories, Inc. (U.S.)
- Taconic Biosciences, Inc. (U.S.)
- Harlon Laboratories (U.S.) among many others.

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