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Global Gene Editing Market : Market Estimation, Dynamics, Regional Share, Trends, Competitor Analysis 2012-2016 and Forecast 2017-2023

https://marketpublishers.com/r/GBE4C55F2C7EN.html
Date: November 2017
Pages: 201
Price: US$ 4,400.00 (Single User License)
ID: GBE4C55F2C7EN

Abstracts

Global Gene Editing Market

Gene editing or Genome editing is the type of genetic editing where DNA is inserted, replaced or deleted in the genome of an organism in order to treat a specific disease by using a molecular scissors or engineered nuclease. These nucleases create site-specific double-stranded breaks in desired locations in genome. The induced double-stranded breaks are repaired through nonhomologous end joining or homologous recombination resulting in targeted mutations (edits).

Rise in the prevalence rate of cancer & other genetic disorders, increasing preference in the personalized medicine, companies investments towards R&D, and growth of biotechnology and pharmaceutical industries, increase in private and public sector funding, rapid advancements in sequencing and gene editing technologies, applications in various drug discovery processes are some of the factors propelling the growth of the genome editing market. However, global gene editing market is hindered by stringent government regulations to approve gene mutation projects, ethical issues, unavailability of gene editing based therapeutics in the market and lack of awareness among people regarding the safety of genetic interventions.

The gene editing market segmented based upon applications, technology, end-user, products, and region.

On the basis of technology, global genome editing market is segmented as:

Zinc Finger Nuclease (ZFN)

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Clustered regularly interspaced short palindromic repeats (CRISPR)

Transcription activator-like effector nuclease (TALEN)

Others

On the basis of application, global genome editing market is segmented as:

Cell Line Editing

Targeted gene mutation

Animal Genome Editing

Plant Genome Editing

On the basis of product type, global genome editing market is segmented as:

Consumables

Instruments and Software

On the basis of end-user, Global Genome Editing Market is segmented as:

Pharmaceutical companies

Biotechnology Companies

Academics

Clinical Research Organizations

Biotechnology and pharmaceutical sectors dominate gene editing market due to its applications in drug discovery and therapeutics. Rise in usage of CRISPR and ZFN,

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companies are investing in innovative research for development of novel gene editing techniques. Many players are adopting various strategies which include collaborations for R&D outsourcing, mergers and acquisitions, strategic or manufacturing activities are driving the growth of genome editing market. For instance, in 2014, Thermo Fisher acquired Life technologies, to create unbeatable leadership in life sciences, research, speciality diagnostics and applied markets.In 2014, Sigma-Aldrich Corporation (U.S.) entered into an agreement with Broad Institute of MIT and Harvard (U.S.) to use CRISPR technology. High growth potential in emerging regions provides lucrative opportunities to industry players.

On the basis of Geographical regions, the genome editing market categorized into five regions:, Europe, North America, Latin America, Asia Pacific, and Middle East & Africa. The gene editing market is dominated by North America due to the strong growth trend in the pharmaceuticals and biotechnology industries. Emerging economies of Asia Pacific and Latin America are expected to show significant growth in the gene editing market due to an increase in the number of laboratories in these regions and development of existing ones for automation of various instrumentation systems, the expansion of leading genome editing companies and increased R&D spending.

Some of the players in genome editing market are Cellectis S.A. (France), Applied Stemcell, Inc. (U.S.), Genscript (U.S.), Merck KGaA (Germany), Horizon Discovery Group plc,(U.K.), Origene Technologies, Inc. (U.S.), System Biosciences, Inc. (U.S.), Sangamo Therapeutics, Inc.(U.S.), Thermo Fisher Scientific (U.S), and Transposagen Biopharmaceuticals, Inc.(U.S.)

In July 2017, Cellectiswas granted the European Patent for the invention of the genetically engineering T-cells by adopting RNA-guided endonucleases, such as CRISPR associated protein 9 (Cas9) or Centromere and Promoter Factor 1(Cpf1)

In July 2017 Sangamo Therapeutics, Inc. received the U.S.FDA Fast Track designation for in vivo genome editing product candidates SB-318 and SB-913 to treat Mucopolysaccharidosis Type I (MPS I) and MPS II

In November 2016, OriGene Technologies entered strategic agreement with EdiGene (Beijing, China) for the development of genome-wide knockout cells from laboratory cell lines which are commonly used

Report Outline:

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The report provides granular level information about the market size, regional market share and forecast from 2017-2023

The report covers in-detail insights about the competitor’s overview, key findings and their key strategies

The report outlines drivers, restraints, challenges, and trends that are currently faced by the industry

The report tracks recent innovations, key developments and startup’s details that are working in the industry

The report provides plethora of information about market entry strategies, regulatory framework and reimbursement scenario

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