

Recombinant DNA (rDNA) Technology - Global Market Outlook (2017-2023)

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Abstracts

According to Statistics MRC, the Global Recombinant DNA (rDNA) Technology Market is accounted for \$499.8 million in 2016 and expected to grow at a CAGR of 6.9% to reach \$799.9 million by 2023. Factors influencing the market growth are rise in Genetically Modified (GM) crop, development of biofuel and biopesticides, presence of biopharmaceuticals pipeline and production of various therapeutic proteins. Lack of government funding for research and development in emerging economies, risks involved in usage of genetically modified food and regulatory & ethical challenges associated with gene therapy are hampering the market growth.

Based on component, the Expression systems are used for the production of protein from recombinant DNA molecules. Majorly used expression systems are mammalian, bacterial, insects, and yeast. Development of cell lines such as HEK293 and Chinese Hamster Ovarian (CHO) has contributed to the significant share of mammalian expression system. Further, , ongoing research to explore the prospective of plant as expression system are expected to underpin the adoption of plants expression system for Genetically Modified product development in the future. Furthermore, more than 3000 scientific studies have been carried out to assess the GM products safety in context to its impact on human health and environment.

Based on application, Agricultural plants are one of the most frequently cited cases of genetically modified organisms. Some benefits of genetic engineering in agriculture are increased crop yields, reduces cost for food or drug production, limited need for pesticides, enhanced nutrient composition and food quality, resistance to pests and disease, with enormous food security, and medical benefits. The advantage of recombinant DNA technology is that new combinations of genes are determined in the forefront. GE has also been used against crop pathogens. One of the first and most

successful genetically modified crops was a papaya with resistance to ringspot virus. Another example includes the development of bananas resistant to wilt in Uganda.

North America accounted for the maximum share of the market which attributes to a affluent number of biopharmaceutical manufacturing companies are situated in the U.S. In July 2017, U.S witnessed the 1st FDA approval for gene therapy treatment. The treatment was developed for leukemia disorder, in conjugation between the University of Pennsylvania and Novartis Corp. This, in turn, furtherance the enact of rDNA techniques in the region. Asia Pacific is expected to be the fastest growing market. Clinical trials in Asian countries such as India and China are less expensive compared to other regions which made migration of several biopharmaceutical developers towards this region.

Some of the key players in Global Recombinant DNA (rDNA) Technology market are F. Hoffmann-La Roche Ltd, Monsanto Company, Amgen Inc, Biocon, Biogen, Eli Lilly and Company, GenScript, GlaxoSmithKline plc, Horizon Discovery Group PLC, Merck & Co, New England Biolabs., Novartis AG, Novo Nordisk A/S, Pfizer Inc and Profacgen.

Components Covered:

Cloning Vector

Phage

Bacterial Artificial Chromosome (BAC)

Human Artificial Chromosome (HAC)

Yeast Artificial Chromosome (YAC)

Cosmid

Plasmid

Expression System

Baculovirus/Insect

Bacteria

Mammalian

Yeast

Other Expression System

Products Covered:

Non-medical

Specialty Chemicals

Biotech Crops

Other Non-Medical Technology

Medical

Human Protein

Therapeutic Agent

Vaccine

Applications Covered:

Health & Disease

Human

Animal

Food & Agriculture

Environment

Other Applications

End Users Covered:

Academic & Research Institutes

Pharmaceutical & Biotech Entities

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

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