

# Animal Genetics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

https://marketpublishers.com/r/A8A824CB672BEN.html

Date: October 2023

Pages: 144

Price: US\$ 2,499.00 (Single User License)

ID: A8A824CB672BEN

## **Abstracts**

#### Market Overview:

The global animal genetics market size reached US\$ 7.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 10.7 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028. The rise of infectious diseases and concerns about antimicrobial resistance, increasing demand for genetically superior breeds that are well-suited for specific climatic conditions and continuous technological advancements are some of the major factors propelling the market.

Animal genetics is a branch of genetics that studies the genetic make-up, heredity, and variation in animals. This field plays a crucial role in understanding fundamental biology, biodiversity, and disease susceptibility. It involves the scientific examination of genes and their functions, the influence of genes on physical and behavioral characteristics, and the ways in which genetic traits are transmitted across generations. Additionally, they also encompass selective breeding practices, utilizing genetic information to enhance desirable traits and reduce unfavorable ones. For instance, it aids in increasing livestock productivity, improving resistance to diseases, and conserving endangered species. Genomic technologies, such as DNA sequencing and genotyping provide precise information to investigate genetic relationships, trace ancestry, and predict genetic disorders. Thus, significantly contributing to improving animal health and welfare, ensuring food security, and preserving biodiversity.

The rapid progress in biotechnology, particularly in gene editing, has been a significant market driver for animal genetics. Technologies, including CRISPR-Cas9, have revolutionized the ability to modify animal genomes with unprecedented precision.



Researchers and breeders can now efficiently introduce or delete specific genes, which is significantly supporting the market. With the rise of infectious diseases and concerns about antimicrobial resistance, there is a growing need for livestock breeds that have natural resistance to common diseases. In confluence with this, the globalization of trade has opened up new market opportunities for livestock products. Different regions have varying requirements and preferences when it comes to animal genetics. As a result, there is an increasing demand for genetically superior breeds that are well-suited for specific climatic conditions, production systems, and consumer preferences in different countries. Apart from this, genetic improvement in aquatic species, such as fish and shellfish, is gaining traction to enhance growth rates, disease resistance, and product quality in aquaculture systems. Moreover, the integration of genetics into precision agriculture practices is creating a positive market outlook.

Animal Genetics Market Trends/Drivers:

Increasing Demand for Protein-Rich Diets and Food Security Concerns

The global population is continuously growing, leading to an increased demand for protein-rich diets. It plays a pivotal role in meeting this demand through the development of genetically superior livestock breeds with higher growth rates, improved feed efficiency, and superior meat quality. Additionally, genetic research has focused on optimizing the health and reproductive efficiency of animals to ensure the sustainable production of protein sources. In addition, concerns over food security have heightened the importance of animal genetics. Climate change, limited resources, and the need to reduce the environmental impact of livestock production necessitates the development of animals that can increase in challenging conditions, require fewer resources, and produce more with less. It contributes to the breeding of resilient livestock breeds capable of adapting to diverse environments, minimizing the risk of food shortages and price fluctuations.

Rising Focus on Sustainable Agriculture and Environmental Conservation

In recent years, there has been a growing emphasis on sustainable agriculture and environmental conservation. Consumers, producers, and policymakers are increasingly aware of the environmental impact of livestock production, including greenhouse gas emissions, land use, and water consumption. Along with this, it contributes significantly to sustainability efforts by developing livestock breeds with improved feed efficiency and reduced methane emissions. By selecting animals with a lower environmental footprint, breeders can play a role in mitigating the impact of agriculture on climate change.



Moreover, animal genetics also support conservation efforts for endangered species. Through artificial insemination, embryo transfer, and genetic preservation techniques, endangered animal populations can be managed and potentially restored. As governments and organizations implement more stringent regulations and consumer preferences shift towards sustainable products, this is impelling the demand. This market driver incentivizes research and innovation in the method to meet the growing expectations for environmentally conscious and sustainable livestock production.

Continual Advancements in Genomic Technologies and Tools

One of the primary market drivers for animal genetics is the continuous advancement in genomic technologies and tools. Over the past few decades, there has been significant progress in the field of genetics, leading to the development of high-throughput sequencing methods, advanced genotyping platforms, and powerful bioinformatics tools. These advancements have revolutionized the way it is studied and applied, enabling researchers and breeders to gain deeper insights into the genetic makeup of animals. In addition, the availability of cost-effective and efficient genomic tools has allowed for the identification of valuable genetic traits in animals, such as disease resistance, improved productivity, and enhanced nutritional characteristics. With more comprehensive genetic information at their disposal, breeders can implement selective breeding programs with greater precision, resulting in the production of healthier, more productive, and environmentally sustainable livestock. Moreover, these genomic technologies have also contributed to the rise of direct-to-consumer genetic testing services for pets.

Animal Genetics Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global animal genetics market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on live animal, genetic materials, services and end user.

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Breakup by Live Animal:
Porcine
Bovine

Poultry



Canine

Others

The report has provided a detailed breakup and analysis of the market based on the live animal. This includes porcine, bovine, poultry, canine, and others.

In the animal genetics industry, several market drivers contribute to the demand for poultry live animals. Additionally, the growing global population and the rising consumption of poultry products, such as meat and eggs, fuel the need for improved and genetically superior poultry breeds that exhibit higher productivity and disease resistance. Along with this, advancements in genetic research and biotechnology have allowed for more efficient and precise breeding techniques, enabling the development of genetically superior and commercially valuable poultry breeds. Moreover, consumers are increasingly conscious of the quality and safety of their food, leading to a demand for healthier and higher-quality poultry products, which can be achieved through selective breeding and genetic improvement.

On the contrary, the rising awareness of hereditary diseases and health issues in canines prompts an increased demand for genetic testing and screening services to ensure the breeding of healthy and disease-free dogs. In confluence with this, the growing interest in specialized dog breeding for specific purposes, such as service dogs, therapy dogs, and sports and working dogs, fosters a demand for precise genetic selection to optimize desired traits. Furthermore, advancements in genetic research and technologies further fuel the market, enabling breeders to make informed decisions based on comprehensive genetic information.

Breakup by Genetic Materials:

**Embryo** 

Semen

Embryo dominates the market

A detailed breakup and analysis of the market based on the genetic materials has also been provided in the report. This includes embryo and semen. According to the report, the embryo represented the largest segment.



The animal genetics industry is influenced by the growing emphasis on improving animal breeding programs to enhance desirable traits, such as increased productivity, disease resistance, and better overall performance. Embryo genetic materials offer a powerful tool for introducing and propagating these advantageous traits across different breeds and populations. In addition, the international trade of livestock and the need to maintain and improve genetic diversity in various regions drive the demand for embryo exports and imports. This allows breeders to access genetic material from diverse and superior bloodlines to enhance local breeding programs. Moreover, continual advancements in assisted reproductive technologies and cryopreservation techniques have made it easier to store and transport genetic material, further boosting the market for embryo genetic materials on the global level.

Breakup by Services:

**Genetic Trait Testing** 

Genetic Diseases Testing

**DNA Typing** 

Genetic diseases testing dominates the market

The report has provided a detailed breakup and analysis of the market based on the service. This includes genetic trait testing, genetic diseases testing, and DNA typing. According to the report, genetic diseases testing represented the largest segment.

The animal genetics industry experiences significant market drivers for genetic disease testing. The growing awareness among breeders, pet owners, and livestock farmers about the impact of genetic diseases on animal health and welfare. This heightened awareness has led to an increased demand for genetic testing services to identify potentially inherited disorders in animals, enabling responsible breeding practices that aim to reduce the risk of passing on harmful genetic traits. Along with this, veterinary professionals increasingly rely on genetic testing to aid in accurate diagnoses and personalized treatment plans for animals with suspected genetic conditions. This drives the need for comprehensive genetic testing solutions in the industry. Also, the rising popularity of companion animals, such as dogs and cats, has led to an increasing demand for DNA testing services. Pet owners are increasingly interested in knowing their pets' genetic heritage, potential health risks, and predisposition to specific



diseases. As a result, genetic disease testing for companion animals has become a significant segment of the animal genetics market.

Breakup by End User:

Veterinary Hospitals and Clinics

**Diagnostic Centres** 

A detailed breakup and analysis of the market based on the end user has also been provided in the report. This includes veterinary hospitals clinics, and diagnostic centers.

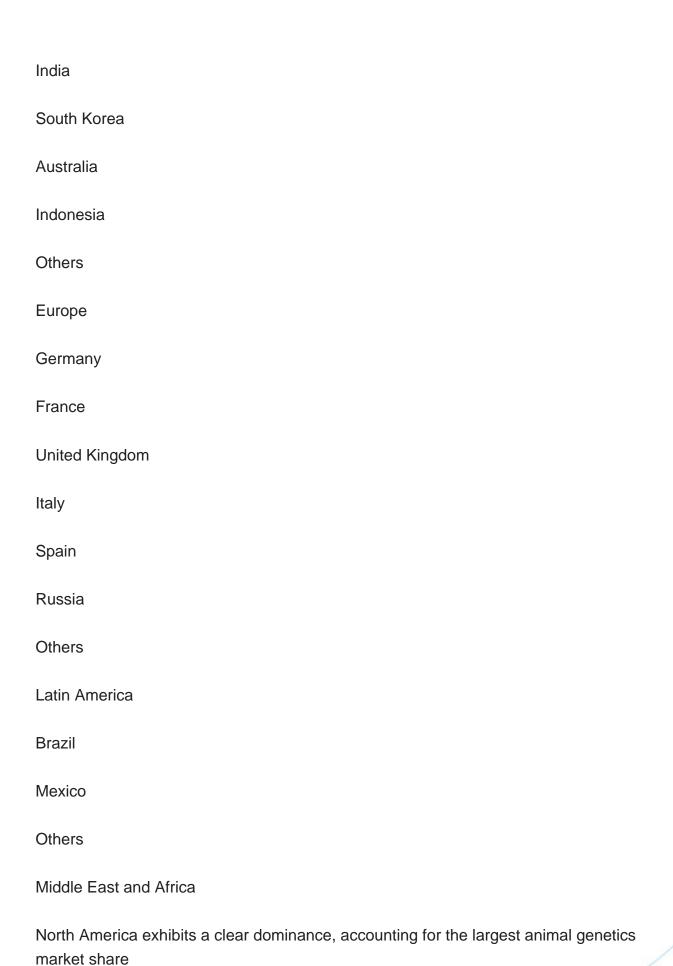
The animal genetics industry is influenced by several market drivers for veterinary hospitals and clinics as end-users. The increasing focus on personalized and preventive veterinary care drives the demand for genetic testing services in these facilities. Veterinarians utilize genetic testing to gain insights into an animal's predisposition to certain diseases and conditions, enabling them to offer tailored treatment plans and early intervention strategies. Additionally, the rising awareness among pet owners and livestock farmers about the benefits of genetic testing fuels the demand for these services in veterinary hospitals and clinics. As clients seek to optimize their animals' health and well-being, genetic testing becomes a valuable tool in facilitating informed breeding decisions and managing hereditary health concerns. Furthermore, advancements in genetic research and technology have made genetic testing more accessible and cost-effective, encouraging veterinary hospitals and clinics to incorporate these services into their routine care protocols.

North America
United States
Canada
Asia-Pacific
China

Breakup by Region:

Japan







The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America represented the largest market.

The animal genetics industry in North America experiences several market drivers that propel its growth and development. The region's strong and diverse agricultural sector, encompassing livestock farming, poultry production, and aquaculture, drives the demand for genetic solutions that enhance animal productivity, health, and overall performance. In addition, the increasing awareness and adoption of advanced technologies in animal breeding, such as artificial insemination, embryo transfer, and genetic screening, fuel the demand for genetic services and materials. Additionally, the region's robust pet ownership culture, coupled with a rising focus on animal health and welfare, stimulates the demand for genetic testing services for companion animals to identify hereditary health concerns. Moreover, supportive government policies, research initiatives, and collaborations between academic institutions and industry players contribute to the industry's innovation and growth.

#### Competitive Landscape:

The global animal genetics market is experiencing significant growth due to the extensive genetic research to identify and understand specific traits, diseases, and hereditary conditions in various animal species. This research helps in developing targeted breeding programs and genetic tests. Along with this, the introduction of advanced breeding technologies such as artificial insemination, embryo transfer, and invitro fertilization to improve the genetic quality and productivity of livestock and companion animals is significantly supporting the market. In addition, the development of genetic testing services to identify genetic disorders, disease susceptibility, and valuable traits in animals, enabling informed breeding decisions and personalized veterinary care is positively influencing the market. Apart from this, some companies specialize in the production and sale of high-quality breeding materials, such as semen, embryos, and genetic material, which are used to improve the genetic pool of animal populations. Furthermore, the escalating number of collaborations with academic institutions, research organizations, and industry peers accelerating genetic advancements and enhancing their offerings is contributing to the market.



The report has provided a comprehensive analysis of the competitive landscape in the global animal genetics market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Alta Genetics Inc.
Animal Genetics Inc.
CRV Holding B.V.
Envigo (Inotiv Inc.)
Genus plc
Groupe Grimaud La Corbi?re SA
Hendrix Genetics B.V.
Neogen Corporation
Sandor Animal Biogenics Pvt. Ltd.
Topigs Norsvin
URUS Group LP
VetGen LLC
Zoetis Inc.
Recent Developments:
In June 2022, Zoetis Inc. launched announced an agreement to acquire privately held petcare genetics business Basepaws, which offers pet owners genetic tests, analytics, and early health risk assessments to assist manage the health, welfare, and standard of care for their animals.

In January 2022, Envigo (Inotiv Inc.) announced the acquisition of Robinson Services Inc. ('RSI'), a North Carolina-based supplier of high-quality animal models, and its rabbit



breeding and supply company. Inotiv's strategy plan for growing its Research Models and Services ('RMS') business includes the purchase as a new step.

In June 2023, Neogen Corporation released My CatScan 2.0, a more enhanced and polished version of the exam. The more thorough analysis provided by My CatScan 2.0 enables cat owners, feline breeders, and veterinarians to gain a deeper understanding of the health and wellbeing of their feline companions.

Key Questions Answered in This Report:

How has the global animal genetics market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global animal genetics market?

What is the impact of each driver, restraint, and opportunity on the global animal genetics market?

What are the key regional markets?

Which countries represent the most attractive animal genetics market?

What is the breakup of the market based on the live animal?

Which is the most attractive live animal in the animal genetics market?

What is the breakup of the market based on the genetic materials?

Which is the most attractive genetic materials in the animal genetics market?

What is the breakup of the market based on the services?

Which is the most attractive services in the animal genetics market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the animal genetics market?

What is the competitive structure of the global animal genetics market?

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Who are the key players/companies in the global animal genetics market?



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