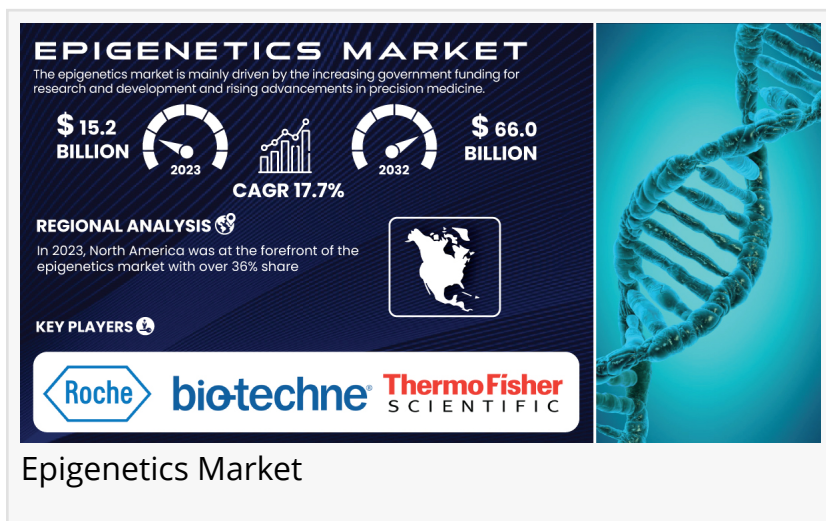


The Epigenetics Market to Soar, Expected to Reach USD 66 Billion by 2032 | SNS Insider

Epigenetics Market Poised for Robust Growth at a CAGR of 17.7%, Driven by Precision Medicine Advancements and Rising Government Funding

AUSTIN, TX, UNITED STATES, December 10, 2024 /EINPresswire.com/ -- The [Epigenetics Market](#) size was estimated at USD 15.2 billion in 2023 and is expected to reach USD 66 billion by 2032 at a CAGR of 17.7% during the forecast period of 2024-2032.



The epigenetics market is driven by significant government funding and advancements in precision medicine. Federal investments, such as the USD 1.2 billion allocated in 2023 for epigenetic research, underscore the potential of the field in untangling disease mechanisms and making possible targeted therapies. Such investment supports innovation and speeds up the development of leading-edge techniques. Companies are also heavily investing, such as Moonwalk Biosciences securing USD 57 million early in 2024 to advance epigenetic profiling. The incidence of cancer is increasing; in 2023, 20 million cases are expected to reach 30.1 million by 2041, thereby emphasizing early detection and effective treatment. Epigenetic drugs are increasingly becoming popular, especially in the management of diseases such as cancer and neurological disorders, particularly in conjunction with traditional therapies. An increased interest in the study of gene regulation beyond DNA sequencing and its implications for personalized medicine further drives the growth of the market. Advances in epigenetic enzyme inhibitors, such as HDMs and DNMTs, indicate the revolutionary potential of these therapies for complex diseases.

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Key Epigenetics Market Players:

Roche Diagnostics

Bio-Techne
Thermo Fisher Scientific Inc.
Zymo Research Corporation
Eisai Co. Ltd.
Epizyme Inc.
Active Motif Inc.
Dovetail Genomics LLC
Illumina Inc.
Promega Corporation
Abcam plc.
Bio-Rad Laboratories Inc.
Enzo Life Sciences Inc.
Syndax Pharmaceuticals
Agilent Technologies Inc.
CellCentric
AsisChem Inc.
Domainex
PerkinElmer Inc.

Market Analysis

Epigenetic mechanisms have been important breakthroughs in understanding what will drive the demand for more tools and therapies that combat genetic disorders and cancers. Personalized medicine has led to further expansion in markets where epigenetic insights could be used to tailor therapies to individual genetic profiles. Substantial government and private funding of advanced diagnostics and therapies further solidified the epigenetics market as a foundation cornerstone of modern medical innovation. Such notable initiatives include the Human Epigenome Project, which mapped epigenetic changes across cell types, forming a critical foundation for further research and applications.

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Key Market Segments

By Product

- Reagents
- Kits
- CHIP sequencing kit
- Whole Genomic Amplification kit
- Bisulfite Conversion kit
- RNA sequencing kit
- Others

- Instruments
- Enzymes
- Service

By Application

- Oncology
 - Solid tumors
 - Liquid tumors
- Non-oncology oncology
 - Inflammatory diseases
 - Metabolic diseases
 - Infectious diseases
 - Cardiovascular diseases
 - Others

By Technology

- DNA Methylation
- Histone Methylation
- Histone Acetylation
- Large non-coding RNA
- MicroRNA modification
- Chromatin structures

By End-use

- Academic Research
- Clinical Research
- Hospitals & Clinics
- Pharmaceutical & Biotechnology Companies
- Others

Segment Analysis

By Product

Reagent segments dominated the market in 2023 with over 33% of global revenue, mainly due to the role these play in examining and modulating epigenetic mechanisms. Major players in the field, such as Promega Corporation, produce a range of kits and reagents for DNA methylation and histone modification analyses, thus this segment represents an essential aspect of epigenetic studies. Services will lead the market, increasing at the highest CAGR between 2024 and 2032, due to applications for specific epigenomic data in technologies like CHIP-seq and bisulfite sequencing, that is growing.

By End User

The academic research segment dominated the epigenetics market in 2023, accounting for more

than 36% of total revenue. This is due to the vast potential of epigenetics in medicine, biology, and genetics, which has been of great interest to the academic world. Universities are spearheading the quest to unravel the complex mechanisms of epigenetics, revealing information on disease pathways and personalized medicine. Meanwhile, clinical research is poised to grow at a very rapid pace, with an expected CAGR of 17%. This growth comes from the role of epigenetics in identifying therapeutic targets and elucidating interactions between environmental factors and the genome, which makes it integral to advancing personalized treatment strategies.

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Regional Development

North America

In 2023, North America dominated the epigenetics market with over 36% market share. Strong healthcare infrastructure, huge R&D investments, and public awareness drive the dominance in this region. Initiatives by U.S. firms such as Chroma Medicine investing \$125 million into epigenetic editing technology also demonstrate the growth in this market. The presence of significant players such as Thermo Fisher Scientific and Illumina reinforces innovation and cement leadership for this region.

Asia Pacific

The Asia Pacific region is expected to grow at the fastest rate, with an estimated CAGR of 16.5% during the period from 2024 to 2032. Rising demand for genome editing technologies and the increasing prevalence of genetic disorders are some of the factors. Investments by companies such as Epigenic Therapeutics, which recently raised \$32 million for advanced gene modulation therapies, will support growth in the region. The high demand for synthetic biology solutions in Japan and favorable regulatory frameworks in China further support growth.

Recent Developments

- **BioLabs and Promega Partnership Expansion (December 2023)**
BioLabs and Promega expanded their collaboration to enhance global life sciences innovation. Promega's German subsidiary provides cutting-edge equipment and training to BioLabs Heidelberg, supporting early-stage startups in epigenetics.
- **Eisai Co. Ltd.** In December 2023, Eisai announced new clinical trial results for Tazemetostat, its EZH2 inhibitor, demonstrating significant efficacy in combination therapies for lymphoma and solid tumors, further reinforcing its role in epigenetic-based cancer treatment.

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