

# **Epigenetics Market by Product (Kits, Reagents, Enzymes, and Instruments), Application (Oncology and Non-Oncology), and End User (Academic & Research Institutes, Pharmaceutical & Biotechnology Companies, and Contract Research Organizations): Global Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

The global epigenetics market was valued at \$772 million in 2019, and is projected to reach \$2,168 million by 2027, registering a CAGR of 13.6% from 2020 to 2027.

Epigenetics is a stream of genetics that involves study of cellular and physiological trait variations initiated by external or ecological aspects, which turn genes on and off and affect cellular ability to read genes without being affected by changes in genotype. Epigenetics results into changes in an organisms' phenotype rather than genotype, wherein the underlying DNA or RNA sequence remains unchanged. Epigenetic alterations are essential for development as they are dynamic and change with respect to environmental stimuli. However, these changes can be stable and could be passed from one generation to another. Biology and genetic expressions of most organisms are affected by epigenetics, which makes it one of the most crucial fields of developmental genetics and molecular biology.

The epigenetics market is expected to grow significantly during the forecast period, owing to rise in incidences of cancer, increase in R&D activities, surge in investments in R&D, growth in epigenetic applications for non-oncology diseases, and increase in partnership between academic, pharmaceutical, and biotechnology companies. However, high cost of instruments and lack of trained professionals impede the market

growth.

Furthermore, untapped potential of emerging markets provide lucrative opportunities to the market players. The epigenetics market is segmented on the basis of product, application, end user, and region. By product, it is divided into enzymes, kits & assays, instruments, and reagents. Enzymes are further classified into DNA ligases, DNA polymerases, other DNA-modifying enzymes, acetylases, methyltransferases, other protein-modifying enzymes, reverse transcriptase, RNA ligases, and other RNA-modifying enzymes. Kits are further subdivided into ChIP sequencing kits, bisulfite conversion kits, whole genome amplification kits, 5-hmC & 5-mC analysis kits, and RNA sequencing kits, and others. On the basis of instrument, the market is categorized into mass spectrometers, next-generation sequencers, qPCRs, sonicators, and others. Reagents are further divided into antibodies, buffers, histones, magnetic beads, primers, and others.

On the basis of application, the market is classified into oncology and non-oncology. Oncology is further sub segmented into solid tumors and liquid tumors. Non-oncology applications include metabolic diseases, infectious diseases, inflammatory diseases, cardiovascular diseases, and other applications. By end user, it is classified into academic & government research institutes, pharmaceutical companies, biotechnology companies, and contract research organizations (CROs). By region, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the market along with the current trends and future estimations to elucidate the imminent investment pockets.

It offers a quantitative analysis from 2019 to 2027, which is expected to enable the stakeholders to capitalize on the prevailing market opportunities.

A comprehensive analysis of four regions is provided to determine the existing opportunities.

The profiles and growth strategies of the key players are

thoroughly analyzed to understand the competitive outlook of the global market.

## KEY MARKET SEGMENTS

### By Type

#### Kits

ChIP Sequencing Kits

Bisulfite Conversion Kits

Whole Genome Amplification Kits

5-hmC & 5-mC Analysis Kits

RNA Sequencing Kits

Others

#### Reagents

Antibodies

Magnetic Beads

Histones

Buffers

Primers

Others

#### Enzymes

DNA Polymerases

Other DNA-Modifying Enzymes

DNA Ligases

Methyltransferases

Acetylases

Reverse Transcriptase

Other Protein-Modifying Enzymes

RNA Ligases

Others

Instruments

Next generation Sequencers

qPCRs

Mass Spectrometers

Sonicators

Others

By Application

Oncology

Solid Tumors

Liquid Tumors

Non-oncology

Metabolic diseases

Infectious diseases

Inflammatory diseases

Cardiovascular diseases

Other applications

### By End User

Academic and Research Institutes

Pharmaceutical & Biotechnology Companies

Contract Research Organizations (CROs)

### By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East & Africa

## LIST OF KEY PLAYERS PROFILED IN THE REPORT

Abcam Plc.

Active Motif, Inc.

Agilent Technologies, Inc.

Diagenode

Illumina Inc.

Merck Millipore

PerkinElmer, Inc.

QIAGEN N.V.

Thermo Fisher Scientific Inc.

Zymo Research

LIST OF OTHER PLAYERS IN THE VALUE CHAIN (These players are not profiled in the report. The same will be included on request.)

CellCentric Ltd.

Chroma Therapeutics Ltd.

Domainex

Eisai Co. Ltd

Novartis International AG,

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