

# Epigenetic and MicroRNA Biomarkers 2013 Market Report

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## Abstracts

This market report from SELECTBIO represents the most up-to-date analysis of the Epigenetic and MicroRNA Biomarkers spaces together with research market data [qualitative and quantitative analysis] characterizing the epigenetics and microRNA research fields

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## About

This market report presents the current worldwide market landscape of epigenetic and microRNA

biomarkers. Presented herein are the following:

Epigenetics Section Focuses on Characterized Biomarkers to Date, Publication Activity, DNAMethylation Biomarkers, Histone Modifications Characterized to Date, Kits and ReagentsCommercially-Available to Study Epigenetics. Primary Market Survey Data from Industry Participants[Researchers] Focusing on Epigenetics Provides Bottom-Up Insight into Epigenetics-Focused Researchand Practices

MicroRNA Section Focuses on the Documented Associations of Specific microRNA Signatures withDiseases, especially Cancer. Presented herein are Publication Analysis of microRNA-focused Papersfrom the Scientific Literature, MicroRNAs as Circulating Biomarkers, the MicroRNA ResearchMarketplace Characterized via Primary Market Surveys where Data from Industry Participants[Researchers] Focusing on microRNAs Provides Bottom-Up Insight into Current MicroRNA Researchand Practices

Epigenetic Modifications May be Key Drivers in Oncology:Potential as Biomarkers to “Pinpoint” Driver Lesions:

- There are 28 million CpG located in the human genome in areas called “CpG islands”
- These CpG islands are normally in the un-methylated state [ie., in an “open chromatin”configuration allowing transcriptional activity to proceed through these regions]
- In tumors, however, CpG islands gain local methylation, however, there is a global lossof methylation genome-wide
- Epigenetic instability at the nuclear periphery appears to be pervasive in cancer
- Furthermore, there is “focal hypermethylation” which often occurs at stem

cellpolycomb target loci—stem cell polycomb targets are prone to abnormal DNAmethylation in cancer

- Epigenetic Silencing of Tumor Suppressors and Other Loci Appears to be Critical in Cancer and therefore the Identification and Deployment of EpigeneticLesions in Cancer May Have Potential as Biomarkers for Prognostics,Diagnosics, and Personalized Medicine

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