



## Epigenetics: A Reference Manual

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Epigenetics is the study of changes in gene expression caused by mechanisms other than changes in the DNA sequence. Epigenetics is a rapidly advancing field with an increasing impact on biological and medical research. The editors of this book have assembled top-quality scientists from diverse fields of epigenetics to produce a major new volume. Comprehensive and cutting-edge, the 26 chapters in this book constitute a key reference manual for everyone involved in epigenetics, DNA methylation, cancer epigenetics, and related fields. Topics include: early life environment \* DNA methylation and behavior \* histone acetyltransferase biology \* transgenerational epigenetic inheritance \* mammalian X inactivation \* epigenetic memory in plants \* polycomb-group regulation \* centromeres and telomeres \* DNA sequence contribution to nucleosome distribution \* macrosatellite epigenetics \* histones \* cell-fate specification and reprogramming \* DNA methylation in cancer \* variant histone H2A and cancer development \* RNA modification \* paramutation in plants \* DNMT3L dependent methylation during gametogenesis \* non-coding RNA \* bisulphite-enabled technologies \* rapid analysis of DNA methylation \* microarray mapping \* DNA methylation profiling \* ChIP-sequencing \* genome-wide DNA methylation analysis \* epigenetics in maize. In addition there are useful chapters on bioinformatics in epigenomics, online resources and tools for epigeneticists, and educational resources for epigenetics. This up-to-date reference manual is an essential book for those working in the field and for scientists in other disciplines. It represents a major information resource on the fascinating and fast-moving field of epigenetics.

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