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Introduction to Genetics: DNA Methylation, Histone Modification and Gene Regulation (Paperback)

By Jun Wan

Createspace, United States, 2013. Paperback. Book Condition: New. 251 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.DNA methylation is the modification of DNA molecule, transferring methyl group to the 5th position of the cytosine pyrimidine ring. This biochemical process plays a crucial role in many cellular processes of higher organisms. For example, people have found distinct patterns of DNA methylation during cellular differentiation and tissue development. The differential DNA methylation profiles are often associated with gene expression. In addition, DNA methylation reveals genomic imprinting and affects on chromatin remodeling and cellular homeostasis. Such epigenetic modification has also been proven to be involved in nearly all cancer-related signaling pathways. However, the mechanism and process against how DNA methylation regulates gene expression are still not clear. The study of DNA methylation and its regulation on gene expression provides fundamental and new insights into the genetic heritability. In Chapter 1, Gene duplication event of NAC transcription factor genes in rice and Arabidopsis was analyzed, then it was found that chromosomal segment duplications mainly contributed to the expansion of both species, whereas tandem duplication occurred less frequently in Arabidopsis than rice. Chapter 2 reviews the current literature related...


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Reviews

An incredibly amazing ebook with perfect and lucid answers. It is written in basic terms and never difficult to understand. It's been written in an exceptionally basic way and it is only right after I finished reading this ebook in which it in fact modified me, affected the way I really believe.

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Extremely helpful for all class of individuals. Better than never, though I am quite late in starting reading this one. I realized this publication from my I and dad suggested this ebook to discover.

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