



Protein Complexes that Modify Chromatin

By Jerry L. Workman

Springer Berlin Heidelberg Okt 2012, 2012. Taschenbuch. Condition: Neu. Neuware - An early view of eukaryotic chromosomes was that of static structures, which stored DNA not in use within a given cell type. It was thought that packaging of DNA into higher levels of chromatin structure would suffice to repress gene expression and that the challenge to the cell would be to rescue specific sequences from these structures. The extensive packaging of inactive DNA was considered the primary difference between eukaryotic and prokaryotic genomes and except for that point both would be similarly regulated by cis-acting sequences and trans acting factors. Our view of eukaryotic chromosomes has evolved dramatically over the last decade. The picture of chromosomes that is emerging is that of dynamic breathing organelles actively regulating the flow of genetic information from the genome. Indeed chromatin is so fluid that even maintaining gene quiescence is an active process and is tightly regulated. Chromatin dynamics is a consequence of protein complexes that modify histones, remove histone modifications, mobilize nucleosomes or stabilize nucleosomes. A wide variety of such complexes have now been described. Some are abundant and may play global roles in chromosome fluidity and function....



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