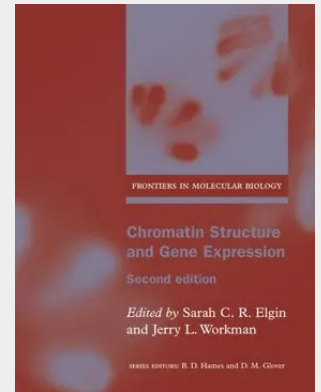


Chromatin Structure and Gene Expression

Since publication of the first edition in 1995, there have been significant advances and understanding of chromatin structure and its relation to gene expression. These include a high-resolution structure of the nucleosome core, discovery of the enzymes and complexes that mediate histone acetylation and deacetylation, discovery of novel ATP-dependent chromatin remodeling complexes, new insights into nuclear organization and epigenetic silencing mechanisms. In light of these advances, Chromatin Structure and Gene Expression (2ed.) includes updated chapters and additional material that introduce new concepts in the process of gene regulation in chromatin. Chromosome structure plays a central role in regulation of gene expression. Chromatin Structure and Gene Expression Second Edition examines chromatin from the crystal structure of the nucleosome to the spacial organization of chromosomes, integrating biochemical and genetic evidence to examine the macromolecular complexes that modify chromatin structure to achieve gene regulation.



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