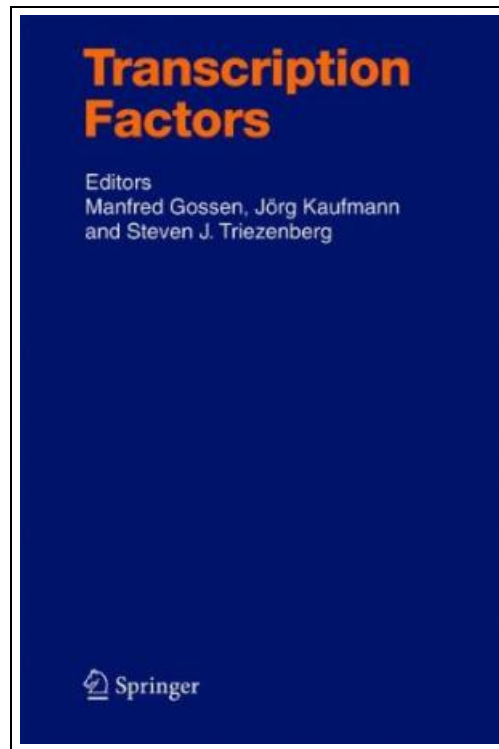


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Reviews

Thorough information! Its this kind of good read. Yes, it is perform, continue to an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Loyal Grady)

TRANSCRIPTION FACTORS

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Book Condition: New. Publisher/Verlag: Springer, Berlin | With contributions by numerous experts | Transcription factors are key players in the execution of the genomic program of any given cell. Their control over complex patterns of gene expression governs essentially every step in the development, growth and differentiation of an organism as well as its physiological responses to external stimuli. An Introduction to Transcription Factors, the first part of this volume, describes the varied and combinatorial mechanisms involved in the two basic modes of transcriptional control, activation (the chapter by Herrera et al.) and repression (the chapter by Arnosti). Overlaying both modes is an emerging emphasis on epigenetic regulation that uses intricate patterns of chromatin modification. Although many of these mechanisms have been elucidated by studying prototypical genes or transcription factors, the recently developed tools of genomic biology allow us to unravel the complexity of global transcriptional programs with an ever-increasing speed and accuracy (the chapter by Zacharewski and La Pres). Given the central role that transcription factors play as relays positioned between the genome and the intracellular and extracellular signals to which cells must respond, it is not surprising that these regulatory proteins play a major role in pathological processes. Part 2 of this volume, Transcription Factors in Pathophysiology, introduces a selection of specific transcription factors and their families. Each of these factors has a well-established function in basic cellular mechanisms that, upon dysregulation, can cause or contribute to human disease. | Part 1: An Introduction to Transcription Factors.- Mechanisms of Transcriptional Activation In Eukaryotes. Multiple Mechanisms of Transcriptional Repression in Eukaryotes. Genomics and Transcription Factors.- Part 2: Transcription Factors in Pathophysiology.- Biological Roles of STAT Family in Cytokine Signalling . Members of the T-Cell Factor Family of DNA Binding Proteins and Their Roles in...

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