



Eukaryotic Transcription Factors, Third Edition

David S. Latchman

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Familiarity with the mechanisms of eukaryotic gene regulation is now essential for scientists and students in both clinical and basic disciplines. However, the vast array of transcription factors, which are central to such regulation, can prove daunting to students and newcomers to this fascinating field of molecular genetics. The Third Edition of **Eukaryotic Transcription Factors** provides the reader with a clear and concise understanding not only of transcription factors, but also of their vital role in the regulation of transcription in different cell types during development and in disease.

Revised and completely up-to-date, the Third Edition of **Eukaryotic Transcription Factors** has been extensively rewritten to reflect the rapid advances in the field. These include the emerging roles of specific co-activator molecules such as CBP in the action of a number of different transcription factors emphasizing particularly their ability to modulate chromatin structure. New sections cover current methods for determining DNA binding specificity, regulation by protein degradation and processing, Pax family transcription factors, and novel anti-oncogenic transcription factors, as well as a discussion of transcription factors in human diseases. A special new color section illustrates the various aspects of transcription factor structure.

Emphasising common motifs, themes and mechanisms this volume covers:

- * Major families of eukaryotic transcription factors
- * Mechanisms of gene activation and repression
- * Structure-function relationships
- * Their roles in inducible and cell type-specific gene expression, development, differentiation, and human diseases including cancer
- * Methods of study *in vivo* and *in vitro*

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