



Eukaryotic Transcription Factors, Fourth Edition

By David S. Latchman

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Now in two-colour throughout, the fourth edition of **Eukaryotic Transcription Factors** has been completely rewritten and restructured to take into account the tremendous advances in our understanding of transcription factors and the mechanisms by which they act. Considerable emphasis has been given to the interaction between transcription factors and chromatin structure. Also included is an entirely new section on the mediator complex and expansion of the space devoted to co-activators and co-repressors.

This book is essential reading for all those who wish to understand the impact of molecular biology on medicine, whatever their speciality.

- * Major families of eukaryotic transcription factors described
- * Mechanisms of gene activation and repression analysed
- * Structure-function relationships indicated
- * Interaction between transcription factors and chromatin structure described
- * Roles in inducible and cell type-specific gene expression
- * Roles in development, differentiation and human diseases including cancer
- * Methods of study in vitro and in vivo

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Editorial Review

Review

Reviews of Previous Editions

"A standard for the genre... presented with great clarity...profusely illustrated... admirably up-to-date."

--THE LANCET

From the Publisher

Praise for Previous Editions "A standard for the genre...presented with great clarity...profusely illustrated...admirably up-to-date." (*The Lancet*)

From the Back Cover

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 colour 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*

Essential reading for all those who seriously wish to understand the impact of molecular biology on medicine, whatever their specialty.

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