



Inducible Gene Expression, Volume 1

By P. A. Baeuerle

Birkhäuser Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. 235x155x mm. This item is printed on demand - Print on Demand Neuware - Cells have evolved multiple strategies to adapt the composition and quality of their protein equipment to needs imposed by changes in intra- and extracellular conditions. The appearance of proteins transmitting novel functional properties to cells can be controlled at a transcriptional, posttranscriptional, translational or posttranslational level. Extensive research over the past 15 years has shown that transcriptional regulation is used as the predominant strategy to control the production of new proteins in response to extracellular stimuli. At the level of gene transcription, the initiation of mRNA synthesis is used most frequently to govern gene expression. The key elements controlling transcription initiation in eukaryotes are activator proteins (transactivators) that bind in a sequence-specific manner to short DNA sequences in the of genes. The activator binding sites are elements of larger proximity control units, called promoters and enhancers, which bind many distinct proteins. These may synergize or negatively cooperate with the activators. The *de novo* binding of an activator to DNA or, if already bound to DNA, its functional activation is what ultimately turns on a high-level...



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-- **Rene Olson**

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