Next month

Serial Reviews

Liver regeneration 4. Transcriptional control of liver regeneration. R. Taub

State-of-the-art Reviews

Regulation of gene expression by alternative promoters. T. A. Y. Ayoub and W. J. M. Van de Van
Masking of mRNA by Y-box proteins. J. Sommerville and M. Ladomery
Nicotinamide nucleotide transhydrogenase: a model for utilization of substrate binding energy for proton translocation. Y. Hatefi and M. Yamaguchi

The Leukin pathway: a mechanistic imperative for three enzymes to change the stereoschemical configuration of a single carbon in galactose. P. A. Frey

Cover: A working model for the induction of the microsomal enzyme cytochrome P450AI. The mechanism involves increased expression of the cown gene CYPIA1 gene. Two novel regulatory proteins the aromatic hydrocarbon receptor (AhR) and the Ahf nuclear translocator (Arnt) mediate the response. Enzyme induction represents an interesting mechanism which cells adapt to xenobiotics, such as the environmental contaminant 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). (From an upcoming review in this series, Whitlock et al., FASEB J., June 1996.)

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