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**MODULATION BY
COVALENT
MODIFICATION**

EDITORS

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P. BOON CHOCK**

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Modulation By Covalent Modification Current Topics In Cellular Regulation Vol 27 1985

Bernard L. Horecker, Earl R. Stadtman



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Modulation by Covalent Modification Shmuel Shaltiel, P. Boon Chock, 2014-06-28 Current Topics in Cellular Regulation Volume 27 Modulation by Covalent Modification is a compendium of papers dealing with the coordination function or control of cellular metabolism particularly on modulation by covalent modification One paper reviews the cyclic cascade model in metabolic regulation that shows the model's applicability to all covalent interconvertible enzyme systems such as those modified by phosphorylation ADP ribosylation carboxymethylation acetylation and sulfation Another paper discusses the hypothesis that smooth muscle contraction is regulated by a calcium dependent phosphorylation of the myosin molecule Studies made by Sellers and Pato suggest that a phosphatase isolated from turkey gizzard muscle known as smooth muscle phosphatase IV can be related to an in vivo myosin phosphatase as the phosphatase IV binds well to both myosin and thiophosphorylated myosin Other papers describe in situ regulation studies of *Escherichia coli* glutamine synthetase the posttranslational processing of the insulin proreceptor and selenium in cellular metabolism The compendium is suitable for biochemists microbiologists and academicians whose works involve research in cell biology **Journal of the National Cancer Institute**, 1990 **Bibliography of Agriculture**, 1986-04 **Cambridge Scientific Biochemistry Abstracts**, 1986 *Modulation by Molecular Interactions* Rodney L. Levine, Ann Ginsburg, 2013-10-22 Current Topics in Cellular Regulation Volume 26 Modulation by Molecular Interactions covers various aspects of biochemical regulation that were presented in the International Symposium on the Molecular Basis of Cellular Regulation held at the National Institutes of Health on May 3-5 1984 The book discusses the coordination and control of cellular metabolism and function focusing on modulation by molecular interactions Biochemists molecular biologists geneticists microbiologists and physiologists will find the book invaluable **Current Topics in Cellular Regulation** Bernard L. Horecker, Earl R. Stadtman, 2014-06-28 Current Topics in Cellular Regulation Volume 12 focuses on the binding of polypeptide hormones to the specific receptor sites on the cellular membrane This book consists of six chapters Chapter 1 describes how several polypeptide regulators hormones and growth factors act through very similar mechanisms The second messenger roles of cAMP and cGMP in the regulation of various protein kinases are dealt with in Chapter 2 Chapter 3 discusses the experimental conditions employed in studying the characteristics of regulatory enzymes in vitro and in vivo while Chapter 4 elaborates the intracellular compartmentation of enzymes cofactors and metabolic intermediates of glycolysis in various tissues from different organisms The biochemical mechanisms that underlie the induction of enzymes in catabolic pathways are considered in Chapter 5 The last chapter is devoted to the role of T4 phage induced covalent modification reactions in the transcriptional control of DNA dependent RNA polymerase in *E. coli* This volume is suitable for biologists and researchers concerned with the basic mechanisms involved in the regulation of diverse cellular activities **Modulation by Molecular Interactions** Rodney L. Levine, 1985 *Current Topics in Cellular Regulation* Bernard Leonard Horecker, *Current Topics in Cellular Regulation* Elsevier Science &

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