

Allosteric regulation (Selected papers in biochemistry)

Tokushige, Masanobu

Note: This is not the actual book cover

Selected Papers In Biochemistry Volume 8 Allosteric Regulation

Guido R. Hartmann, Feodor Lynen



Selected Papers In Biochemistry Volume 8 Allosteric Regulation:

Physics With Illustrative Examples From Medicine and Biology George B. Benedek, Felix M.H. Villars, 2000-06-26 A reissue of a classic book corrected edited typeset redrawn and indexed for the Biological Physics Series Intended for undergraduate courses in biophysics biological physics physiology medical physics and biomedical engineering this is an introduction to statistical physics with examples and problems from the medical and biological sciences Topics include the elements of the theory of probability Poisson statistics thermal equilibrium entropy and free energy and the second law of thermodynamics It can be used as a supplement to standard introductory physics courses and as a text for medical schools medical physics courses and biology departments The three volumes combined present all the major topics in physics These books are being reissued in response to frequent requests to satisfy the growing need among students and practitioners in the medical and biological sciences with a working knowledge of the physical sciences The books are also in demand in physics departments either as supplements to traditional intro texts or as a main text for those departments offering courses with biological or medical physics orientation *The Publishers' Trade List Annual* ,1975 Federation Proceedings Federation of American Societies for Experimental Biology, 1987 Vols for 1942 include proceedings of the American Physiological Society Current Topics in Cellular Regulation Bernard L. Horecker, Earl R. Stadtman, 2014-06-28 Current Topics in Cellular Regulation Volume 22 is a collection of papers that deals with eukaryotic protein synthesis lysosomal thiol proteinases and the properties of adenylosuccinate synthetase Other papers discuss the regulation of acetyl CoA carboxylase ornithine cycle and seminal vesicle development and function One paper investigates the poly ADP ribosylation of protein particularly in quantifying synthesis and in the function of the polymer Another paper observes the construction of a reconstituted cell free system in which there is for the first time a catalytic use followed by a recycling of eIF 2 A eukaryotic regulatory factor or eukaryotic recycling factor eRF is a prerequisite factor in the in the control of the rate of initiation One paper reviews the properties structures and functions of thiol endopeptidases in mammalian lysosomes and the characteristics of the endogenous inhibitor Another paper explains the regulatory kinetic and genetic aspects of adenylosuccinate synthetase from a variety of systems One paper discusses the short term regulation of the carboxylase from animal tissues with emphasis on the covalent modification of the carboxylase and its relationship to the allosteric control mechanism Molecular biologists general biologists and microbiologists will find the articles in this collection invaluable

Library of Congress Catalog Library of Congress, 1970 **Cell Biology** Robert D. Dyson, 1978 Bowker's Medical Books in Print , 1975 **Enzyme Catalysis and Control** Marlene Deluca, Henry Lardy, Richard L. Cross, 2014-06-28 Current Topics in Cellular Regulation Volume 24 Enzyme Catalysis and Control is a compendium of papers that discusses phosphoryl transfer reactions the role of water on the free energy of hydrolysis of pyrophosphate and the hormonal actions of vitamin D Other papers describe the regulation lipid metabolism by a lipid carrying protein the GABA and taurine enzymes in

mammalian brain One paper examines the role of vitamin D in the metabolism of cells as well as in the whole animal Upon absorption in the body the vitamin undergoes various metabolic transformations before interacting with specific receptors and then inducing the genome in the target tissues to generate biological and hormonal responses Another paper notes the possibility of a genetic defect in cancer cells that results in the abnormal accumulation of sterol carrier protein SCP and cholesterol in vivo and also in the inability to maintain levels of SCP or cholesterol in vitro One paper shows that tartrate or other organic acids secreted into the medium by the penicillia keeps the pH in an optimal range for acid protease degradation of proteins and glycoproteins This mechanism helps the fungus to survive in a nutrient environment which is unbalanced with respect to an optimum C N ratio and at a pH unfavorable to many bacteria and other life forms Another paper proposes a model for the modulation of ATP synthetase activities and medium exchange reactions by energy input substrate concentration or others that affect the microenvironment of the enzyme under certain conditions The compendium will prove beneficial to molecular biologists general biologists microbiologists and biochemists

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.),2007 **Library of Congress Catalogs** Library of Congress,1976 *Medical Books and Serials in Print, 1979* R. R. Bowker LLC,1979-05 American Book Publishing Record ,1983-04 *Reflections on Biochemistry* A. Kornberg,B. L. Horecker,L.

Cornudella,2014-05-18 *Reflections on Biochemistry* In Honour of Severo Ochoa offers reflections on a wide range of topics relating to biochemistry including energy metabolism lipids and saccharides regulation nucleic acids and the genetic code protein biosynthesis and cell biology The essays celebrate Severo Ochoa s outstanding contributions to biochemistry spanning nearly half a century This book is comprised of 47 chapters and begins with a biography of Ochoa and his scientific work in the field of biochemistry particularly his research on intermediary metabolism RNA synthesis and the genetic code The discussion then turns to energy metabolism photosynthesis and fermentation touching on topics such as the role of lactic acid in the development of biochemistry and the biosynthesis of cell components from acetate The next section is devoted to lipids saccharides and cell walls and includes chapters that deal with biotin sulfur biochemistry and dipicolinic acid Subsequent chapters explore hormonal regulation of adipose tissue lipolysis the structural relationship between genes and enzymes bacteriophages colicins and ribosomes and cell biology and neurobiology This monograph will be of interest to biochemists and students of biochemistry *Die aktivierte Essigsäure und ihre Folgen* Guido R. Hartmann,Feodor

Lynen,2019-06-04 Keine ausf hrliche Beschreibung f r Die aktivierte Essigs ure und ihre Folgen verf gbar **Scientific and Technical Books in Print** ,1972 Biological Cycles Ronald W. Estabrook,Paul A. Srere,2013-10-22 *Current Topics in Cellular Regulation* Volume 18 *Biological Cycles* covers topics on the events of molecular biology cellular communication and the merging of cell structure to biochemical function The book discusses the ornithin urea cycle the cycles of glutathione metabolism and transport and the role of multienzymatic proteins in mammalian pyrimidine biosynthesis The text also

describes the significance of interconvertible enzyme cycles in cellular regulation regulation of mammalian pyruvate dehydrogenase complex by a phosphorylation dephosphorylation cycle replenishment of citric acid cycle intermediates by the purine nucleotide cycle in rat skeletal muscle The control of a secondary pathway of ethanol metabolism by differences in redox state the role of aldolase and fructose biphosphatase in the control of gluconeogenesis and glycolysis and the fructose 6 phosphate fructose 1 6 biphosphate cycle are also considered The book further tackles the cycles in polysaccharide biosynthesis and other important biological cycles Biologists microbiologists cellular biologists and biochemists will find the book invaluable *Selected Topics from Neurochemistry* Neville N. Osborne, 2013-10-22 This book contains up dated versions of articles which proved very popular when first published in Neurochemistry International The articles draw attention to developments in a specific field perhaps unfamiliar to the reader collating observations from a wide area which seem to point in a new direction giving the author s personal view on a controversial topic or directing soundly based criticism at some widely held dogma or widely used technique in the neurosciences **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70 **Medical Books and Serials in Print** , 1983 **Index of Conference Proceedings** British Library. Document Supply Centre, 1996

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