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### Allosteric Enzymes Elsevier

Enzymes are used frequently in modifying proteins for specialized uses. These books cover the latest advances in this field and its applications in the field of molecular biology. General overview of the latest developments in the field of molecular biology. This is latest volume in the successful Wiley series on enzymology as applied to molecular biology.

### Kinetics of Enzyme-Modifier Interactions CRC Press

Also containing a bibliography with 1323 references.

### Fundamentals of Enzymology Academic Press

This book compiles detailed information concerning a dozen of the best known allosteric enzymes, and so allows the comparison of their regulatory mechanisms and the confrontation of these mechanisms with the theoretical models. Stimulating and unexpected ideas emerge from these comparisons and emphasize the importance of developing various methods of investigation such as crystallography, X-ray solution scattering, and the study of fast movements in proteins and site-directed mutagenesis. This book is addressed to students and researchers interested in structure-function relationship in proteins, enzymology and metabolic regulation. It is also a basis for teaching.

*Enzymes* Academic Press

Biological catalysis plays a dominant role both in fermentation and industrial process chemistry. This collection of chapters, written by a well-known biochemist and enzymologist, should serve as an invaluable reference to those investigators seeking to optimize the application of enzymatic catalysis for commercial purposes.

### Enzymes in Synthetic Organic Chemistry Springer

Enzymatic Methods of Analysis attempts to cover all the aspects of modern enzymatic analysis.

Enzymes possess a great potential usefulness in analytical chemistry. The specificity of enzymes can solve the primary problem of most analytical chemists—the analysis of one substance in the presence of many similar compounds that interfere in the analysis. The book begins with two introductory chapters devoted to general considerations of enzymes as reagents and methods of analysis of enzymatic reactions. The next four chapters deal with methods for the assay of specific enzymes, and substrate, activator, and inhibitor analysis using enzymes. In the last two chapters the immobilization of enzymes and the automation of enzymatic reactions are discussed. In addition, a listing of all commercially available enzymes is given in an appendix. It is hoped that the information presented will prove interesting and stimulating to all individuals engaged in research and development.

### Class 1 Oxidoreductases V Academic Press

Enzymes, which work as organic catalysts for chemical reactions, are of interest to a wide range of scientific disciplines. The Source Book of Enzymes provides a worldwide listing of commercially available enzymes, offering the widest possible selection of enzyme products for specific applications. The Source Book of Enzymes answers these important questions and many more: Where can I find a particular enzyme? What enzymes are available for purchase? How do I select the appropriate enzyme for my application? How do the available enzymes differ from one another? What are the reaction conditions for optimum enzyme performance? Who sells the enzyme I need? The reliable research tool you will turn to again and again With the Source Book of Enzymes you will save hours of research time once wasted on searching through catalogs and product data bulletins. This practical reference tool makes the selection process easy by providing systematic and comparative functional information about each enzyme. Its global scope ensures that you will find the enzyme and supplier most suited to your needs and geographical location. Students and

educators; researchers in academia, industry and government; bioengineers and biotechnologists, and purchasing agents will find this an invaluable resource for conducting competitive assessments, identifying new product trends and opportunities, identifying enzyme properties, and ordering specific enzymes.

### Enzyme Handbook Springer Science & Business Media

Manual giving in concise form molecular data on some 800 enzymes. Entries include references. Vol. 2 has enzyme index.

### Advances in Enzymology and Related Areas of Molecular Biology Academic Press

This volume describes some of the approaches that have been used to study enzymes in vivo. Metabolic control analysis provides a relatively simple framework with which to relate flux in a metabolic pathway to the kinetic properties of the component enzymes. More importantly it shows us how the importance of an enzyme in controlling flux in a pathway can be quantitated experimentally from measurements on the intact tissue. Fluorescence microscopy and NMR are two spectroscopic techniques which can be used to monitor, non-invasively, metabolite levels, metabolic fluxes and enzyme localization and mobility in intact biological systems. The potential of NMR for investigating the properties of enzymes in vivo has been greatly enhanced by using the technique in conjunction with molecular genetic method for changing the levels and properties of specific enzymes in the intact cell. Control of metabolism is regarded by some as a dead subject, with little new to learn. While it is true that the chemistry of the major metabolic pathways have been fully elucidated, our understanding of how they are controlled in the cell is still rather limited. Of particular interest is the emerging evidence for a high degree of spatial organization of the supposedly 'soluble' enzymes in the cytosol and the mitochondrial matrix. Much is still to be learnt on how this organization is effected and what influence it has on control of metabolic flux. If this volume excites some interest in this area of research and, furthermore, demonstrates that these problems are eminently addressable using the new techniques which are being developed, then it will have served a useful purpose.

### Enzyme Structure Academic Press

Amasses key information on a broad range of enzymes commonly used as tools in molecular biology, condensing scattered sources for ease of reference, and making data accessible to nonenzymologists designing an experiment. After an overview of nucleases, 19 chapters give background on selected enzymes (nucleic acid- and protein-modifiers), discuss essential parameters for achieving optimized reactions, and provide exemplary practical procedures and protocols. Plastic comb binding. Annotation copyright by Book News, Inc., Portland, OR

### Enzyme Nomenclature Springer Science & Business Media

The critically acclaimed laboratory standard for more than forty years, *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. Now with more than 300 volumes (all of them still in print), the series contains much material still relevant today—truly an essential publication for researchers in all fields of life sciences. This volume and its companions (Volumes 31 and 334) cover all current knowledge concerning hyperthermophilic enzymes. Major topics in this volume include enzyme discovery, saccharolytic enzymes, and proteolytic enzymes.

### Methods in Enzymology Academic Press

A comprehensive compendium of data on enzyme kinetics, measurement of enzyme activity, physical factors which affect activity, and patterns of enzyme inhibition. Coverage includes information on co-enzymes and analogs, and the analysis of ligand binding and metalloenzyme reactivity.

### Enzyme Handbook 17 Springer Science & Business Media

The critically acclaimed laboratory standard, *Methods in Enzymology*, is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. The series contains much material still relevant today - truly an essential publication for researchers in all fields of life sciences.

**Structure-Function Relationships of Proteolytic Enzymes** Academic Press

Proteins constitute the working-class molecules of the cell. Hence, understanding the way they act is a prerequisite for understanding how a cell functions and how life evolves. Aspects such as the protein-ligand relationship, recognition, protein evolution by point mutation, enzyme-substrate interactions, behaviour of an enzyme in a living cell, control and dynamics of enzyme networks as well as the physico-chemical background of enzyme actions and multi-enzyme complexes are comprehensively treated in this volume.

**Methods to Determine Enzymatic Activity** CRC Press

Leading experts in enzyme manipulation describe in detail their cutting-edge techniques for the screening, evolution, production, immobilization, and application of enzymes. These readily reproducible methods can be used to improve enzyme function by directed evolution, to covalently immobilize enzymes, to microencapsulate enzymes and cells, and to manufacture enzymes for human health, nutrition, and environmental protection. Overview chapters on microorganisms as a source of metabolic and enzymatic diversity, and on the fast-moving field of enzyme biosensors are presented. *Microbial Enzymes and Biotransformations* offers laboratory and industrial scientists a wealth of proven enzymatic protocols that show clearly how to go from laboratory results to successful industrial applications.

**Hyperthermophilic Enzymes, Part A** Elsevier

Edited by one of the leading experts in the field, this book fills the need for a book presenting the most important methods for high-throughput screenings and functional characterization of enzymes. It adopts an interdisciplinary approach, making it indispensable for all those involved in this expanding field, and reflects the major advances made over the past few years. For biochemists, analytical, organic and catalytic chemists, and biotechnologists.

**Enzymes in Nonaqueous Solvents** John Wiley & Sons

The critically acclaimed laboratory standard, *Methods in Enzymology*, is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. The series contains much material still relevant today - truly an essential publication for researchers in all fields of life sciences.

**Source Book of Enzymes** Springer Science & Business Media

*Methods to Determine Enzymatic Activity* is a textbook about industrial enzymes. The book features definitions, classifications and applications of selected enzymes important in industry and in biotechnological processes. Analytical methods for these enzymes are also included in the text. The main objective of this textbook is to provide readers information focused on the current analysis methods of enzymatic activity at qualitative and quantitative levels. Each chapter is about one specific enzyme and contains information about its substrate and some biochemical properties. The methodologies are presented as an experimental protocol allowing interested readers to reproduce the experimental methods detailed within the textbook. These protocols contain the principle of the technique, materials, methods, and all steps necessary for the determination of enzyme activity and interpretation of results. Each methodology is illustrated with photos and schemes for a better and clear understanding. This book, therefore, uniquely brings modern analysis techniques of industrial enzymes in a single easy to understand volume. This textbook is suitable for undergraduate enzymology courses and advanced industrial biotechnology and microbiology courses.

**Enzyme Handbook** Oxford University Press, USA

Microbial natural products have been an important traditional source of valuable antibiotics and other drugs but interest in them waned in the 1990s when big pharma decided that their discovery was no longer cost-effective and concentrated instead on synthetic chemistry as a source of novel compounds, often with disappointing results. Moreover understanding the biosynthesis of complex

natural products was frustratingly difficult. With the development of molecular genetic methods to isolate and manipulate the complex microbial enzymes that make natural products, unexpected chemistry has been revealed and interest in the compounds has again flowered. This two-volume treatment of the subject will showcase the most important chemical classes of complex natural products: the peptides, made by the assembly of short chains of amino acid subunits, and the polyketides, assembled from the joining of small carboxylic acids such as acetate and malonate. In both classes, variation in sub-unit structure, number and chemical modification leads to an almost infinite variety of final structures, accounting for the huge importance of the compounds in nature and medicine. \* Gathers tried and tested methods and techniques from top players in the field. \* Provides an extremely useful reference for the experienced research scientist. \* Covers biosynthesis of Polyketides, Terpenoids, Aminocoumarins and Carbohydrates

**Advances in Enzymology and Related Areas of Molecular Biology, Volume 73, Part A** Elsevier

This authoritative reference covers recent advances in the field, stressing an interdisciplinary approach to the development and use of biosensor technology in physics, engineering, analytical chemistry, and biochemistry (including immunochemistry). about the editors ...RICHARD P. BUCK is a Professor in the Chemistry Department, University of North Carolina, Chapel Hill. Professor Buck serves on the editorial boards of several journals including *Analytical Instrumentation: Applications and Designs for Chemical, Biomedical, and Environmental Science* (Marcel Dekker, Inc.). He is a member of the American Chemical Society, Electrochemical Society, and International Society of Electrochemistry. He received the B.S. (1950) and M.S. (1951) degrees from the California Institute of Technology, Pasadena, and Ph.D. degree (1954) from the Massachusetts Institute of Technology, Cambridge. W1WAM E. HATFIELD is Mary Ann Smith Professor and Vice Chairman of Chemistry, and Acting Chairman of the Curriculum in Applied Sciences, University of North Carolina, Chapel Hill. He is the author or coauthor of over 300 publications, and coeditor, with John H. Miller, Jr., of *High-Temperature Superconducting Materials: Preparations, Properties, and Processing* (Marcel Dekker, Inc.). He is a member of the American Chemical Society, American Association for the Advancement of Science, and Materials Research Society. He received the B.S. (1958) and M.S. (1959) degrees from Marshall University, Huntington, West Virginia, Ph.D. degree (1962) from the University of Arizona, Tucson, and completed postdoctoral research at the University of Illinois, Urbana. M1KTHA UMANA is an independent consultant to Glaxo Inc. and Research Triangle Institute, Research Triangle Park, and Duke University Engineering Research Center, Durham, North Carolina. The coauthor of numerous scientific journal articles, her research interests include surface chemistry, electrochemistry, and biosensors. She received the B.Sc. degree (1969) from the University of Chile, Santiago, and Ph.D. degree (1972) from the University of London, England. EDMOND E. BOWEN is an Associate Professor in the Department of Chemistry and in the Biotechnology Program, North Carolina State University, Raleigh. The coauthor of numerous journal articles, his research interests include bioelectrochemistry, biological electron transfer, biosensors, and surface chemistry. He received the B.S. degree (1970) from Syracuse University, Syracuse, New York, and Ph.D. degree (1982) from Virginia Commonwealth University, Richmond.

**Class 3.1 Hydrolases VI** Elsevier

The objective of the Springer Handbook of Enzymes is to provide in concise form data on enzymes sufficiently well characterized. Data sheets are arranged in their EC-Number sequence. Each volume comprises one enzyme class, sometimes the enzyme classes have to be divided into several volumes. Considerable progress has been made in enzymology since the publication of the first edition (published as "Enzyme Handbook"): many enzymes are newly classified or reclassified. In the 2nd edition each entry is correlated with references and one or more source organisms. New data fields are created: "application" and "engineering" (for the properties of enzymes where the sequence has been changed). Altogether the amount of data has doubled so that the 2nd edition will consist of 39 volumes plus synonym index. This collection is an indispensable source of information for researchers in biochemistry, biotechnology, organic and analytical chemistry, and food sciences.

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