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MULTIFUNCTIONAL PROTEINS

edited by **H. Bisswanger** and **Eva Schmincke-Ott**, both of *Physiologisch-Chemisches Institut der Universität Tübingen, West Germany*

Primarily concerned with problems arising from the exploration of the relationship between structure and function of proteins, this book describes a clan of proteins, the "multifunctional proteins". It is organized to include an introductory chapter giving an overview and a comparison on the different systems and a series of contributions by specialists who give the most adequate description of the examples that were chosen to elucidate different characteristic aspects of multifunctionality in proteins.

April 1980 344 pages
0471 04270 6 \$44.50/£20.45

METHODS OF BIOCHEMICAL ANALYSIS Vol. 26

edited by **D. Glick**, *Stanford Research Institute, California*

Containing chapters that deal with a particular determination or group of related determinations that are of great interest and use to biochemists, this book includes chemical, physical and biological essays, as well as basic techniques and instrumentation for the determination of enzymes, vitamins, hormones, lipids, carbohydrates, proteins, minerals and antimetabolites.

April 1980 462 pages
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SYNTHETIC ASPECTS OF BIOLOGICALLY ACTIVE CYCLIC PEPTIDES — GRAMACIDIN S AND TYROCIDINES

by **N. Izumiya**, **T. Kato**, **H. Aoyagi**, and **M. Waki**, all of *Kyushu University*, and **M. Kondon**, *Saga University*

A detailed and up-to-date description of the organic chemistry of gramicidin S and tyrocidines as representative cyclic peptides, with discussion of chemical aspects of numerous analogs from the viewpoint of their organic synthesis and the relationship between their structure and function.

January 1980 178 pages
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Published by *Kodansha Scientific Ltd.*

ORGANIC REACTION MECHANISMS 1978

edited by **A.C. Knipe**, and **W.E. Watts**, both of the *School of Physical Sciences, New University of Ulster, Coleraine, Northern Ireland*

The fourteenth volume, continuing the pattern now established for the series, surveys work on organic reaction mechanisms appearing in the literature dated December 1977 to November 1978. The aim, as before, has been to provide a concise and comprehensive coverage of work published in the period under review.

April 1980 730 pages
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edited by **D.E. Woolley** and **J.M. Evanson**, both of *University Hospital of South Manchester*

Represents the first attempt to summarize present knowledge of the biochemistry and physiology of collagenase and its role in normal and pathological tissues. Based on papers and discussions at the International Symposium of the same title held at the University Hospital of South Manchester in October 1978, this is the first book on vertebrate collagenases which relates the properties and modulation of collagenase to connective tissue physiology and pathology. This book also provides the first unique bibliography on vertebrate collagenase.

April 1980 302 pages
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CELLULAR RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS

edited by **D. Schulster**, *Hormones Division, National Institute for Biological Standards and Control, Hampstead, London* and **A. Levitzki**, *Department of Biological Chemistry, Hebrew University of Jerusalem, Israel*

The first part of this book is devoted to the general properties of receptors and the methods currently available to study them. In the following sections individual receptors, or families of receptors, are discussed in detail. All of the specialist chapters have been written by selected authors, who are recognized authorities in their own field.

April 1980 432 pages
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ESSAYS IN NEUROCHEMISTRY AND NEUROPHARMACOLOGY Vol. 4

edited by **M.B.H. Youdim**, *Technion-Israel Institute of Technology, Haifa, Israel*,

W. Lovenberg, *National Heart and Lung Institute, Bethesda, Maryland, USA*,

D.F. Sharman, *Institute of Animal Physiology, Babraham, Cambridge*,

and **J.R. Lagnado**, *School of Medicine, University of Zambia*

Written for postgraduate students and researchers who wish to familiarize themselves with current specific problems in neurochemistry and neuropharmacology. Each contribution is readable as an essay rather than as a review, and provides factual information to support or reject current theories. In summarizing, the authors state their own views on the trends for future research.

This volume contains a heavy emphasis on biochemistry and pharmacology of catecholamines relating to both clinical and non clinical studies.

Series: *Essays in Neurochemistry and Neuropharmacology Vol. 4*

March 1980 296 pages
0471 27645 6 \$56.10/£19.50



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SYMPOSIA SERIES No. 44

Biochemistry of Genetic Engineering

Edited by **P. B. Garland** and **R. Williamson**

pp. 145 (ISBN 0 904498 08 5) £12.50 (US\$27.50)

A Biochemical Society Symposium held in London in July 1978

The Biochemical Society's Forty-Fourth Symposium held at University College London in July 1978 reviewed in a two day meeting the exciting and rapidly expanding area of Genetic Engineering. Leaders in the field gave general introductions to the biochemical basis, practice and aims of many aspects of the subject, illustrated with accounts of current research. Subjects included ranged from the enzymology of restriction nucleases, ligases and polymerases, proceeded through vectors and hosts for recombinant DNA, considered in depth selected plant and animal systems, and concluded with industrial prospects and social perspectives. These excellent and well-received presentations form the basis of this publication, which will serve not only as a readable introduction to the biochemistry of genetic engineering but also as a valuable account of the activities of a number of leading laboratories as of summer 1978.

List of contents and authors:

Preface.

Restriction Nucleases, Ligases and Polymerases in Genetic Manipulation by **A. D. B. Malcolm.**
Safe and Useful Vector Systems by **W. J. Brammar.**

Plasmid Vectors for Genetic Manipulation in vitro by **D. J. Sherratt.**

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Genetic Engineering: Do We Need It? How Would We Do It? by **A. J. Hale.**

Human Genetic Engineering: a Social and Political Perspective by **K. Bergman & J. Beckwith.**
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