

New titles from Portland Press

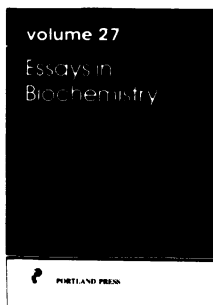
Essays in Biochemistry Volume 27

Edited by Keith Tipton

Essays in Biochemistry has been appreciated as a source of material by biochemistry teachers for many years. Relunched by Portland Press in 1991 with a new format it has returned to its original focus on topics at a level ideal for use by advanced undergraduates, graduate students and their teachers. Each essay provides a valuable overview of an exciting and rapidly developing area of biochemistry or molecular or cellular biology.

Contents

The collagen superfamily - diverse structures and assemblies **D J S Hulmes** Towards an understanding of C3-C4 photosynthesis **S Rawsthorne** The biochemistry of blood clotting: the digestion of a liquid to form a solid **M F Scully** Endothelins **T Masaki and M Yanagisawa** Wither PQQ **W S McIntire** Ubiquitin **R J Mayer and F J Doherty** The repair of DNA alkylation damage by methyltransferases and glycosylases **L D Samson** Roles for protein phosphorylation in synaptic transmission **R Rodnight and S T Wofchuk** Biosensors: principles and practice **J D Newman and A P F Turner** Cell death in Parkinson's disease **S A Greenfield** How groups of proteins titrate - a new approach **H B F Dixon** Proteolysis is a key process in virus replication **G Kemp, A Webster and W C Russell**



ISBN 1 85578 015 1 Paperback, 178 pages, £15.00/US\$30.00* August 1992

Still available

Essays in Biochemistry Volume 26, edited by K. F. Tipton

"I have little doubt that the current scientific interest of the topics, and the quick readability, conciseness and visual appeal of this collection of essays, will be of interest to students and teachers of many branches of modern biological science and not just of biochemistry as indicated in the title"
Biochemical Education

ISBN 1 85578 007 0 Paperback 110 pages £12.50/US\$25.00* 1991

Compendium of Biochemical Nomenclature and Related Documents

Edited by C. Liébecq

This is an essential reference text for all authors and editors in biochemistry and related disciplines. It contains all the current recommendations on nomenclature issued by the nomenclature committees of the International Union of Biochemistry. It also includes text from, and references to, other important nomenclature documents.

The book's main sections cover: amino acids, peptides and proteins; enzymes; nucleotides, nucleic acids and protein synthesis; carbohydrates; and lipids. There are also articles covering the nomenclature of: organic chemistry, isotopically modified compounds, phosphorus-containing compounds, folic acids, vitamin B6, corrinoids and tetrapyrroles; as well as the presentation of thermodynamic data.

ISBN 1 85578 005 4 paperback 350 pages £18.00/US\$36.00*
August 1992

Nucleoside Triphosphatases In Energy Transduction, Cellular Regulation and Information Transfer In Biological Systems

A discussion meeting of the Royal Society

The importance of enzyme reactions in the transduction of energy and information is gradually being realized. Many of these enzyme reactions involve the hydrolysis of phosphate ester bonds and link a wide variety of processes within the cell: triphosphatase hydrolysis provides the energy required in sensory perception and cell signalling, as well as in a range of protein-DNA and protein-protein interactions.

This Discussion Meeting of the Royal Society focused on a class of physiologically diverse enzymes, including myosin, the G-proteins and nitrogenase, that can be grouped together because they share structural features and, most probably, a common mechanism. The interchange of ideas between the participants of the meeting will provide a stimulus for research workers in this field.

ISBN 1 85578 032 1, casebound, 120 pages (approx),
£19.50/US\$35.00*, August 1992

Orders for these books, or requests for further information should be sent to: Portland Press
Commerce Way, Colchester CO2 8HP UK Tel: (0206) 796351 Fax: (0206) 799331 Orders from
the USA and Canada should be sent to: Portland Press Inc, PO Box 2191, Chapel Hill, NC
27515-2191, USA.

*Carriage: UK customers please add £2.00 per order, overseas customers add £3.00, customers in the USA and Canada add US\$5.00



Women Physiologists

An Anniversary Celebration of their Contributions to British Physiology



Edited by **Lynn Bindman, Alison Brading and Tilli Tansey**

This book focuses on a group of women who have made significant contributions to the field of physiology. Included are individual biographies, highlighting their scientific research and presenting extracts from original papers, together with a commentary for the non-expert.

This is a fascinating account, not only for physiologists, male and female, but also for others interested in the history of science and those concerned with the roles of women in science and in society.

Contents

Section I. The Beardless Ladies of Physiology? "To dine with ladies smelling of dog?" A brief history of women and the Physiological Society, *E M Tansey*

Section II. Public Recognition of Women Physiologists: Dames of the British Empire and Fellows of the Royal Society Dame Harriette Chick DBE, *S Morrissey*; Dame Janet Vaughan DBE, FRS, *H Dodsworth*; Mary Pickford FRS, *M Phillips*; Marthe L Vogt FRS, *S Greenfield*; Edith Bülbring FRS, *A Brading*; Elsie M Widdowson FRS, *M Young*; Dame Sheila Sherlock DBE, *C A Seymour and L Bindman*; (Emmeline) Jean Hanson FRS, *S Page*

Section III. Other Notable Women Physiologists The Tweedy sisters — May Mellanby and Nora Edkins, *E M Tansey*; Margaret M A Murray, *M Young*; Sybil Cooper, *A Brading*; (Marion) Grace Eggleton, *G Falk*; Catherine O Hebb, *A Silver*; Eleanor Zaimis, *A C Dolphin*; Audrey U Smith, *L Bindman*; Pamela M Holton, *L Bindman*; Brenda M Schofield, *S Wray*. Contributors. Index

ISBN 1 85578 049 6 Paperback

£9.99/US\$15.00

164 pages

July 1993



Portland Press Ltd

Commerce Way, Colchester CO2 8HP, UK

Portland Press Ltd

Commerce Way, Colchester CO2 8HP, UK

Portland Press Ltd

Commerce Way, Colchester CO2 8HP, UK

Nutrient Regulation of Insulin Secretion

Edited by P R Flatt

The mechanism of insulin release in response to the body's intake of nutrients is a problem at the centre of research into diabetes. **Nutrient Regulation of Insulin Secretion** is a comprehensive review of the mechanisms by which nutrients, such as glucose, and neurohormonal stimuli generated by feeding, control pancreatic B-cell function in health and disease.

"...an excellent collection of authoritative reviews. I was particularly impressed with the up-to-date feeling which was present throughout the book."

K Docherty, The Biochemist

"...a major work which will be a standard reference on the subject for some years.... It is extensively cross-referenced and despite the multiple authorship, it reads as a single volume. Flatt has done well to bring it all together so effectively. Anyone with even a vague interest in insulin secretion will find much of value."

D G Johnston, The Endocrinologist

ISBN 1 85578 004 6 Hardback

415 pages

£60.00/US\$111.00

February 1992



Orders* and enquiries should be sent to: Portland Press Ltd,
Commerce Way, Colchester CO2 8HP, UK Tel: (0206) 796351 Fax: (0206) 799331

* Payment should accompany order and can be made by cheque or credit card.

Four firsts from **BIOS** SCIENTIFIC PUBLISHERS

Oncogenes and Tumor Suppressor Genes *F. Macdonald and C.H.J. Ford*

This book is the first in a new series called "Medical Perspectives", devised specifically for non-specialists working in medicine and the medical sciences. Medical students in particular will find these concise texts useful. Primarily intended to inform and explain, each book in the series examines the fascinating developments now occurring in the life sciences which are having, or which are likely to have, a major impact on human medicine and medical practice.

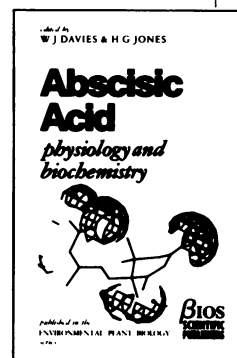
In this book, the authors use the most up-to-date laboratory and clinical data to summarize our present understanding of the roles of oncogenes and tumor suppressor genes in cancer. They also describe techniques for studying these genes, their clinical relevance for diagnosis and prognosis, and ideas for turning this knowledge into useful clinical treatments.

ISBN 1 872 748 55 4 paperback published May 1991, price £11.95/US\$24.00

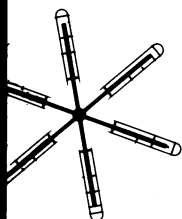
Abscisic Acid: Physiology and Biochemistry *Edited by W. J. Davies and H. G. Jones*

The first volume in this new series of high-quality, carefully edited, and topic-oriented reviews comprises an up-to-date survey of the state of our knowledge concerning the plant growth regulator, abscisic acid. Leading experts from the USA, Europe and Australia emphasise recent advances and the application of molecular techniques.

ISBN 1 872748 65 1 hardback to be published in October 1991, price provisionally £39.95/US\$80.00



An introduction to
CENTRIFUGATION



An Introduction to Centrifugation *T.C. Ford and J.M. Graham*

"Introduction to Biotechniques" is a new series which gives the novice an introduction to basic techniques. Each book covers both the theory and the practical applications of a key technique. This first book explains what centrifugation is, what it does, how it does it, and the types of centrifuges, rotors, techniques, and density gradient media currently available. It is also useful for the more experienced worker who needs a better grasp of the theory to modify or design new separation methods.

ISBN 1 872748 40 6 paperback published February 1991, price £12.95/US\$25.00

Molecular Biology LABFAX *T.A. Brown*

Tracking down useful data is time-consuming and frustrating. Now, a new series of books provides the data you need ... quickly and accurately. Labfax is the most comprehensive, easy-to-use, best value for money laboratory companion yet conceived.

ISBN 1 872748 00 7, spiral bound in hard case published January 1991, price £21.95

The LABFAX series is co-published in North America with Academic Press, Inc., and in the rest of the world with Blackwell Scientific Publications Ltd. Orders from North America to Academic Press Inc.

Orders to:

Portland Press Ltd, Commerce Way, Whitehall Industrial Estate, Colchester CO2 8HP, UK

Tel: (0206) 46351. Fax: (0206) 549331.

Portland Press is an accredited agent for Bios Scientific Publishers Ltd.

LABFAX