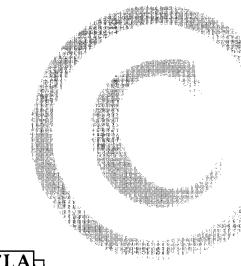
KNOW YOUR COPY RIGHTS R E S P E C T O U R S

The publication you are reading is protected by copyright law. This means that the publisher could take you and your employer to court and claim heavy legal damages if you make unauthorised photocopies from these pages.

Photocopying copyright material without permission is no different from stealing a magazine from a newsagent, only it doesn't seem like theft. The Copyright Licensing Agency (CLA) is an organisation which issues licences to bring photocopying within the law. It has designed licensing services to cover all kinds of special needs in business, education, and government.

If you take photocopies from books, magazines and periodicals at work your employer should be licensed with CLA.

Make sure you are protected by a photocopying licence.





The Copyright Licensing Agency Limited 90 Tottenham Court Road, London WTP 01 P

Telephone: 0171 436 5931 Fax: 0171 436 3986

Titles from Portland Press

The Annexins

Edited by S E Moss

"this volume is certainly the definitive source of information on this family of proteins."

Trends in Cell Biology

Calcium has long been recognised as playing a central role in the regulation of many physiological processes. In the past few years, a major class of calcium-binding proteins has emerged, that lacks the standard 'EF-hand' motif, binding instead through an alternative, more complex structure. The so-called annexin family presently consists of some 13 members expressed in organisms as widely diverse as higher plants, slime moulds, insects, birds and mammals. This book reviews the major proposed functions of the annexins, including inhibition of phospholipase A2 and of blood coagulation, exocytosis and calcium-channel activity.

1 85578 008 9 173 pages Hardback

£45.00/US\$72.00

1992

Immunotechnology

Edited by J P Gosling and D R Reen

In this book, leading experts have provided comprehensive and up-to-date accounts of the most important aspects of immunotechnology, covering many topics from raising antibodies, to their uses, particularly in basic research, qualitative and quantitative analysis, artificial catalysis and therapy. An inherent and exciting theme that runs throughout is that the new techniques for preparing antibodies and antibody fragments promise to overcome many of the limitations encountered at present. One of the first of its kind to be concerned exclusively with immunotechnology, this book will act as a catalyst to promote interchange and interaction between individual scientists and between the varied disciplines concerned with the generation, manipulation and application of antibodies.

1 85578 035 6

Hardback

1993

164 pages

£45.00/US\$72.00



New Titles from Portland Press ...

Publisher of the Biochemical Society

Oxidative Stress, Lipoproteins and Cardiovascular Dysfunction Edited by C A Rice-Evans, UMDS, University of London, UK and K R Bruckdorfer, RFHSM.

University of London, UK

This book brings together some of the foremost researchers in the field of free radical biology as applied to cardiovascular disease, who present up-to-date but concise information concerning new developments in this exciting area of research. The book examines and evaluates our understanding of the role of lipoprotein oxidation in atherosclerosis, mainly from an experimental viewpoint, but referring appropriately to clinical observations. These concepts have given an important stimulus and validity to free radical research and have unleashed much controversy. The book therefore presents different perspectives on the outstanding problems concerning the mechanisms of initiation of atherosclerosis and reperfusion injury and it will also highlight areas for future development. The book will be of value to scientists and clinicians interested and involved in the development of this fertile area of research.

ISBN 1 85578 045 3

Hardback

175 pages

April 1995

£50.00/\$80.00 (provisional)

Pulmonary Vascular Remodelling

J E Bishop and G L Laurent, and I Reeves

Written by scientists and clinicians who specialize in pulmonary vascular research or medicine Pulmonary Vascular Remodelling describes the changes that occur in the structure and function of the pulmonary vasculature during the development of pulmonary hypertension. Detailed information is given on the molecular and cellular mechanisms involved in this remodelling process. Topics include: • the diversity of the pulmonary circulation and its adaption to changes in the environment • the dynamic nature of extracellular matrix metabolism • the mechanisms that regulate the remodelling process, including the roles of growth factors, vasoactive substances and mechanical forces. 1 85578 041 0 Hard £80.00/\$128.00

The Biology of **Nitric Oxide**

380 pages

Edited by S Moncada, M Feelisch, R Busse & E A Higgs Part 3 Physiological and Clinical Aspects

1 85578 063 1 1995 Hard £132.00/\$212.00 570 pages

Part 4 Enzymology, Biochemistry, and Immunology

1 85578 068 2 Hard 1995 450 pages £112.00/\$180.00

Mitochondria: DNA. **Proteins and Disease**

Edited by V M Darley-Usmar and A H V Schapira

Whilst the function of mitochondria in cell metabolism is well understood. the role which dysfunctional mitochondria play in human disease is just emerging, with many mutations and more diseases associated with mitochondrial abnormalities, eg mitochondrial myopathies, encephalopathies and Leber's hereditary optic neuropathy being described regularly. This book aims to bridge the gap between basic research and clinical practice by bringing together the genetic and bioenergetics aspects of mitochondrial metabolism. 1 85578 042 9 1994 Hard £50.00/\$80.00 230 pages

Address orders to: Portland Press

Commerce Way, Colchester, CO2 8HP, UK Tel:(01206) 796351 Fax:(01206) 799331

Or to: Portland Press Inc.,

Ashgate Publishing, Old Post Rd, Brookfield VT 05036-9704, USA

> Tel: 802 276 3162 Fax: 802 276 3837

* Postage and handling: please add £2.00/US\$3.50

Interstitium, **Connective Tissue** and Lymphatics

Edited by R K Reed, G A Laine, I L Bert, P Winlove and N McHale

Interstitium, Connective Tissue and Lymphatics offers new perspectives on the inter-relationship of the structure and function of the interstitium, and the formation and propulsion of the lymph.

During the last decade, new insights based on work from the field of molecular biology and cellular biology have greatly influenced our understanding of regulatory mechanisms on the genomic and cellular levels, and physiological and biomedical engineering research has continued to supply information and new ideas as to function and mechanisms associated with the interstitium, connective tissues and lymphatics.

This book updates and summarizes our knowledge in these areas of tissue physiology, including presentation and discussion of new experimental approaches, investigations of new systems, and an appreciation of new mechanisms involved with connective tissue physiology.

1 85578 073 9 Hard Spring 1995 300 pages £75.00/\$120.00 (provisional)

New books from Portland Press

Publisher of the Biochemical Society

The first in a major new series for young readers



Makingsenseofscience

by Fran Balkwill and Mic Rolph with Victor Darley-Usmar

The first book in this series, Microbes Bugs and Wonder Drugs, will teach you about drugs, their history, use and abuse and their impact on your daily life, particularly focusing on drugs which you and your family may have come across.

It tells compelling science stories, highlights the importance of medical research, and teaches about disease and the body's response to it.

✓ Written by leading scientists and science communicators / Accessible to a wide non-specialist audience / Presents topical subjects in an entertaining and educational way \(\square\$ Highly illustrated April 1995 1 85578 065 8 128 pages

Essays in Biochemistry Volume 29 Edited by K F Tipton and D Apps

Essays in Biochemistry contains ten self contained summaries of rapidly moving areas of biochemistry and molecular biology which are poorly covered in standard student textbooks. Topics covered include

- Oxygen toxicity, free radicals and antioxidants in human disease, C Rice-Evans and V Gopinathan
- The roles of molecular chaperones in vivo, P A Lund • Ribozymes, H A James and P C Turner
- Opsin genes, B E H Maden Molecular chaperones: physical and mechanistic properties, S G Burston and A R Clarke.

From the reviews of Essays in Biochemistry Vol 28 "will be of value to undergraduates needing information to write essays and post-graduates and others wanting to get a start in new fields, as well as lecturers wanting to update their knowledge"

Biochemical Education 1 85578 017 8

240 pages

Paper £15.00/US\$30.00

Fundamentals of Enzyme Kinetics Second Edition



A Cornish-Bowden

This book describes the principles of enzyme kinetics, with an emphasis on principles rather than an encyclopaedic accumulation of facts, to allow readers to fill gaps for themselves and proceed in the subject as far as they need to go. In this way it provides the basis for understanding enzyme kinetics, whether at the level of the undergraduate, the research student or the researcher.

Contents: Basic principles of chemical kinetics; introductory enzyme kinetics; assays and other practical aspects; derivation of rate equations; inhibition and activation; multi-substrate reactions; isotope exchange and isotope effects; pH and temperature effects; control of enzyme activity; multi-enzyme systems; fast reactions; statistical analysis; references; solutions to problems; index.

1 85578 072 0 300 pages

1995 £18.00/US\$29.00

Cardiovascular Regulation Edited by D Jordan, and J M Marshall



Cardiovascular Regulation provides an up-to-date account of our current understanding of the control of the cardiovascular system which is not covered by existing textbooks. Each chapter has numerous summary boxes and also 'Essential Reading' suggestions for additional reading for undergraduates and 'Further Reading' suggestions for postgraduates. 1 85578 024 0 150 pages £16.95/US\$27.50

Postgraduate Study in the **Biological Sciences**

A Researcher's Companion R J Beynon

Thinking of a career in research? About to start or finish- your PhD? About to start post-doctoral research? Then this guide is essential for you. It provides some of the basic advice and information that will be needed during a research training.

"I have encountered no other book quite like this one for brevity, readability and practical down-to earth good sense. Times Higher Education Supplement 1 85578 009 7 Paper £9.50/US\$17.00 150 pages

Orders and enquiries to: Portland Press Ltd, Commerce Way, Colchester CO2 8HP, UK

Tel: (01206) 796351 Fax: (01206) 799331

In North America: Portland Press Inc, Ashgate Publishing Co, Old Post Road, Brookfield, VT 05036-9704 USA Tel (802) 276 3162 Fax (802) 276 3837

