

Latest Titles from Portland Press



Portland Press

Essays in Biochemistry vol. 34: Metalloproteins

Edited by D Ballou, University of Michigan, USA

1 85578 106 9 Paperback May 1999 200 pages £18.00

Essays in Biochemistry provides undergraduates and first year postgraduates with a single source of information on the latest research in rapidly moving areas of biochemistry and molecular biology. Particular attention is given to topics that perhaps because of recent developments are poorly covered by standard texts.

Each chapter is written by an expert on the area of research and is a self-contained summary of the state-of-the-art of that topic.

Essays in Biochemistry is published in a format which makes extensive use of illustrations, diagrams and tables, which enhances its accessibility. This highly readable volume will also serve as a valuable teaching aid to lecturers in biochemistry and molecular biology.

Contents:

The role of efflux in bacterial resistance to soft metals and metalloids, *BP Rosen*; Bacterial detoxification of Hg(II) and organomercurials, *SM Miller*; Non-haem iron-containing oxygenases involved in the microbial biodegradation of aromatic hydrocarbons, *ED Coulter and DP Ballou*; Haem iron-containing peroxidases, *IS Isaac and JH Dawson*; Nature's universal oxygenases: the cytochromes P450, *SG Sligar*; Oxygen-carrying proteins: three solutions to a common problem, *DM Kurtz, Jr.*; Biological electron-transfer reactions, *AG Mauk*; Molybdenum enzymes, *R Hille*; Coenzyme B₁₂ (cobalamin)-dependent enzymes, *ENG Marsh*; Oxygen reactions of the copper oxidases, *JW Whittaker*; Catechol dioxygenases, *JB Broderick*; Cisplatin, *EE Trimmer and JM Essigmann*; Subject index

Mitochondria and Cell Death

Edited by GC Brown, D Nicholls and C Cooper, University of Cambridge, UK, University of Dundee, UK and University of Essex, UK

1 85578 125 5 Hardback May 1999 240 pages £65.00

This book reviews the involvement of mitochondria in cell death and disease. This is a rapidly expanding field of major importance to both basic biology and medical science. Clear and comprehensive chapters from some of the key researchers in the field cover most aspects of the subject from the molecular to the *in vivo* level. The role of mitochondria in neurodegenerative, inflammatory and ischaemic diseases, as well as necrosis, apoptosis and ageing is reviewed. Each chapter is by a different set of authors describing one aspect of the field. Researchers and postgraduates throughout biology and medical science will want to read this book.

Contents:

Mitochondrial control of apoptosis: an overview, *G Kroemer*; Nitric oxide, cytochrome c and mitochondria, *GC Brown and V Borutaite*; Ceramide induces cytochrome c release from isolated mitochondria, *C Richter and P Ghafourifar*; Bcl-2 and Ca²⁺-mediated mitochondrial dysfunction in neural cell death, *AN Murphy and G Fiskum*; Mitochondria, NO and neurodegeneration, *MF Beal*; Excitotoxicity and mitochondria, *DG Nicholls et al.*; Apoptosis and necrosis: different execution of the same death, *P Nicotera et al.*; The mitochondrial permeability transition: the brain's point of view, *JM Dubinsky et al.*; Mitochondrial dysfunction in Parkinson's disease, *JT Greenamyre et al.*; Secondary abnormalities of mitochondrial DNA associated with neurodegeneration, *SJ Tabrizi and AHV Schapira*; Mutations of the mitochondrial genome: clinical overview and possible pathophysiology of cell damage, *SM Rothman*; *In vivo* measurements of mitochondrial function and cell death following hypoxic/ischaemic damage to the new-born brain, *CE Cooper*; Mitochondria in heart ischaemia and aging, *RG Hansford et al.*; Mitochondrial dysfunction in sepsis, *M Singer and D Brealey*; The mitochondrial permeability transition pore, *M Crompton et al.*; The mitochondrial permeability transition: its molecular mechanism and role in reperfusion injury, *AP Halestrap*; Confocal microscopy of the mitochondrial permeability transition in necrotic and apoptotic cell death, *JJ Lemasters et al.*

Lifelong Learning Policy and Research

Edited by A Tuijnman, Stockholm University, Sweden and T Schuller, Birkbeck College, UK

Series: Wenner-Gren International Series No. 75

1 85578 134 4 Hardback June 1999 250 pages price £75.00

Orders:

www.portlandpress.com/books/orderinfo.htm

Portland Press, Commerce Way,
Colchester, CO2 8HP
t: 01206 796351
f: 01206 799331
e: sales@portlandpress.com

Postage: Please add £2.50 per book
to a maximum of £7.50

In the USA and Canada
Princeton University Press
c/o California/Princeton Fulfillment
Services, Inc
1445 Lower Ferry Road,
Ewing, New Jersey 08618
t: 1-800-777-4726
f: 1-800-999-1958
e: orders@cpfs.pupress.princeton.edu

Postage: Please add \$3.75 for first
two books and \$0.75 for each
additional book

BOG/0499/D