

## New from Portland Press

### Neuropeptide Gene Expression

Edited by **A J Turner**

Neuropeptides are a rapidly growing class of biological signal molecules. Study of their molecular biology is providing insights into important mechanisms of gene expression. In this book, leading scientists survey the recent progress made in the identification of neuropeptides and the factors regulating their expression including transcription factors, enzymes involved in post-translational processing as well as agents modulating peptide hormone release at synaptic terminals. This book will be of interest to both neuroscientists and those studying gene expression in general.

1 85578 044 5      Hardback      £65.00  
300 pages      August 1994

### Temperature Adaptation of Biological Membranes

Edited by **A R Cossins**

This book examines current knowledge of the physical/structural adaptations of membranes to fluctuations in temperature.

New genetic and molecular biology approaches to investigating the underlying machinery are presented in the book. Also included are new perspectives on mechanisms of cold and heat damage, and adaptations which endow enhanced thermoresistance.

Essential reading for anyone studying membrane structure and function: biochemists, biophysicists and physiologists, also all those interested in cold/heat tolerance.

1 85578 062 3      Hardback      £65.00  
240 pages      August 1994



Portland Press Ltd, 100 Brook Hill Drive, West Nyack, NY 10994, USA

## New from Portland Press

### 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      Hard      Sept 1994  
230 pages      £50.00/US\$80.00

### Proteolysis and Protein Turnover

Edited by **J S Bond** and **A J Barrett**

Proteolysis participates in an impressive array of biological processes which includes blood clotting, tissue remodelling, nutrient acquisition, antigen processing and the meiotic cycle. In this book, leading experts portray a sense of how the field is moving, highlight the important discoveries and pinpoint the areas where progress is still to be made.

**Contents:** Thirty-six chapters covered in five sections: Keynote address; Molecular Aspects of Proteolytic Enzymes and Inhibitors; Cellular Aspects of Proteolytic Systems and Mechanisms of Intracellular Proteolysis; Protein Turnover in Tissues/Organisms; Pathological Aspects of Protein Turnover.

1 85578 039 9      Hard      Jan 1994  
290 pages      £65.00/US\$100.00



Portland Press Ltd, 100 Brook Hill Drive, West Nyack, NY 10994, USA

## \*Special Offer on The Biochemical Basis of Biology Series of Videos

### Video No. 3: Manipulating DNA The Biochemical Basis of Biology Series

**New**

E J Wood, *University of Leeds*

The *Biochemical Basis of Biology* series of videotapes complement the teaching of Biology by helping teachers illustrate biochemical concepts in a dynamic way not possible with textbooks. They also allow students access to experiments which could never be demonstrated in a school laboratory.

**Contents:** **Cutting DNA** Shows how the DNA double helix can be cut using restriction enzymes. The emphasis is on the use of microscale techniques. **Electrophoresis of DNA** Graphics with pictures taken in the laboratory have been prepared to demonstrate how agarose gels are used to carry out the electro-phoresis of DNA. **Amplifying DNA** This section shows how a piece of DNA (eg a gene) may be specifically amplified using the Polymerase Chain Reaction. **Cloning DNA** The final section illustrates how a gene is inserted into

a bacterial plasmid and then re-inserted into a bacterium for possible commercial production of a protein.

Format: VHS/60 minutes 1994 £60.00 (+VAT)

### Video 1: Cell Structure and Energy Production

This video is divided into 4 sections The electron microscope; Subcellular fractionation; Mitochondrial respiration: the oxygen electrode and the light reaction of photosynthesis.

PAL/NTSC/VHS 60 minutes 1986 £46.00(+VAT)

### Video 2: DNA and Protein Synthesis

This is divided into 3 sections, The Measurement of Protein Synthesis by Means of Radioactivity; The Mechanism of Protein Synthesis; Viruses, Bacteriophages and the Hershey and Chase experiments

PAL/NTSC/VHS 45 minutes 1987 £46.00 (+VAT)

**\*Special Offer — Save £56.00**

**Videos 1, 2 & 3 — only £96.00 (+VAT)**



## New Volume in the Studies in Physiology Series

### Cardiovascular Regulation **New**

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.

**Contents:** Central nervous integration of cardiovascular regulation; Some aspects of the integration of the respiratory and cardiovascular systems; Cardiovascular changes associated with behavioural alerting; Cardiovascular changes associated with sleep; Regulation of blood volume; Cardiovascular responses to exercise:

central and reflex contribution; Metabolic control of blood flow with reference to heart, skeletal muscle and brain; Changing perspectives on microvascular fluid exchange.

1 85578 024 0 Paper Dec1994 150 pages £16.95

### The Pathophysiology of the Gut and Airways: An Introduction

Edited by P L R Andrews & J G Widdicombe

This book examines the pathophysiological basis of a number of relatively common diseases and disorders of the gut and airways. These two systems share a number of structural and physiological similarities which are reflected in the pathophysiological basis of the diseases reviewed.

1 85578 022 4 Paper 1993 130 pages £16.95

The **Studies in Physiology** series, published on behalf of the Physiological Society, provides students and lecturers alike, with a concise introduction to developments in complex and difficult areas of physiology.

Future topics to be covered include: Neural Control of Skilled Human Movements, An Integrated Approach to Exercise in Man

Orders and enquiries to: **Portland Press Ltd**, Commerce Way, Colchester CO2 8HP, UK Tel: (01206) 796351

Fax: (01206) 799331 Or to: **Portland Press Inc.**, Old Post Road, Brookfield VT 05036-9704,

USA Tel (802) 276 3162 Fax: (802) 276 3837

AEV/1194/C



# Bio Expo 95

20-23 FEBRUARY 1995 NICE - FRANCE

## 6<sup>th</sup> EXHIBITION OF BIOTECHNOLOGY APPLIED TO RESEARCH INDUSTRY & AGRICULTURE



ORGANIZED BY

*Biofutur*



SEPMI-TECHNOEXPO  
BLENHEIM

SPONSORED BY



ORGANIZED BY



19-23 FEBRUARY 1995 NICE - FRANCE

## 7<sup>th</sup> EUROPEAN CONGRESS ON BIOTECHNOLOGY

Please return to : SEPMI-TECHNOEXPO BLENHEIM 70, rue Rivay F 92532 LEVALLOIS-PERRET CEDEX FRANCE

Name ..... Title .....

Company .....

Address .....

Postal code [ ] [ ] [ ] [ ] Town .....

Country ..... Phone ..... Fax .....

- I wish to receive the ECB 7 program.  I wish to receive a free invitation for the BIOEXPO 95 Exhibition.  
 I consider exhibiting at BIOEXPO 95 and wish to receive an exhibitor's file.

B95/18