

## 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



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## 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



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