New titles available from Portland Press...

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, with a two-fold emphasis; the importance of planning, and the need to develop independence of thought and action.

What is in it for you?

**Students:** It presents, in an easy and non-dictatorial style, an indication of the way that you can proceed, and a brief description of the types of resources which can facilitate your progress.

**Supervisors:** This book will excel as a foundation course on essential skills for research students that, although seen as peripheral to experimentation, mark a professional scientist. Used as a supplement to your established practices, it aims to extend student awareness and skills though their own efforts.

**Contents:** Starting out ◆ Developing your experimental skills ◆ Conducting a research project ◆ Writing about your work ◆ Speaking in public ◆ Computers and computing ◆ Safety and legislative control ◆ The graduate student as teacher ◆ Moving on

ISBN 1 85578 009 7 Paperback
150 pages May 1993 £9.50/US$17.00

Biochemical Journal: Reviews 1992
Edited by W H Evans
This invaluable compendium contains the review articles published in the Biochemical Journal in 1992. The reviews provide the opportunity for research workers to gain an overview of areas outside their own particular speciality, and the compilation is also an important source of teaching material.

Topics covered include: 5' nucleotidase; expression of mouse mammary tumour virus; nuclear protein phosphorylation and growth control; targeting proteins to mitochondria; import of proteins into peroxisomes; calreticulin; G protein-coupled receptors; inositol-lipid-specific phospholipase C isoenzymes; the plant phosphoinositide system; control of respiration and ATP synthesis; metabolic control analysis; glycoprotein hormones.

ISBN 1 85578 040 2 Hardback
£17.50/US$31.50
228 pages February 1993

Journal of Biological Chemistry: Minireview
Compendium 1992
The Journal of Biological Chemistry is one of the world's leading journals of biological chemistry and publishes over 1000 research articles each year. It also publishes review articles on selected topics of scientific importance.

Topics reviewed include: Rhodopsin; Ca2 channels' protein disulphide isomerase; lens crystallins; the interferon system; adenosine receptors; the synapsins; ankyrins; angiogenesis; crystallization of actin; cyclosporin A; the p53 tumor suppressor protein; DNA replication fidelity; signal transduction in bacterial chemotaxis; interleukin-4-related lymphokines; transcriptional regulation of heat shock genes; precursor processing endoproteases; Ras as a molecular switch in signal transduction; Apolipoprotein B.

ISBN 0 9621688 4 X Paperback
£8.00/US$12.00
150 pages February 1993

The Pathophysiology of Gut and Airways: An Introduction
Edited by P L R Andrews and J G Widdicombe
The first in the new *Studies in Physiology* series published on behalf of the Physiological Society, this book will clarify for student and lecturers alike, complex and difficult areas of physiology.

This book examines the pathophysiological basis of a number of relatively common common clinical problems of the gut and airways. These two systems share many similar physiological features which are reflected in the pathophysiological basis of the diseases and disorders reviewed. Chapters are paired dealing with the same or similar problems in the gut and airways and are selected to illustrate the clinical impact of an understanding of normal physiological processes.

ISBN 1 85578 022 4 Paperback
£16.95/US$27.50
150 pages June 1993
**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.
### The Biology of Nitric Oxide

Edited by S Moncada, M A Marietta, J B Hibbs Jr. and E A Higgs

The proceedings of the Second International Meeting on the Biology of Nitric Oxide brings together for the first time investigations from very different areas of research with a common interest in the newly discovered pathway synthesising nitric oxide from L-arginine in mammalian cells.

**Part I - Physiological and Clinical Aspects**

- ISBN 1 85578 012 7 Hardback £87.50/US$160.00 420 pages
- ISBN 1 85578 013 5 Hardback £57.50/US$110.00 230 pages
- Parts I and II purchased together £140.00/US$260.00

### 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.

"...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."

The Endocrinologist

ISBN 1 85578 004 6 H 415pp £60.00/US$111.00 February 1992

### Embryonic Development and Manipulation in Animal Production: Trends in Research and Applications

Edited by A Lauria and F Gandolfi

ISBN 1 85578 033 X H 282 pp £60.00/US$115.00 Nov 1992

### The Archaebacteria: Biochemistry and Biotechnology

Edited by M J Dawson, D W Hough and G G Lunt

This Biochemical Society Symposium drew together acknowledged international experts on archaebacteria. They explored the biochemistry and molecular biology of these unusual organisms and examined how we might use these cells and their uniquely stable constituents to meet the demands of industry's biotechnological future.

"This is an excellent book, always interesting, very readable, state of the art and a significant potential addition to any library."

The Biochemist

ISBN 1 85578 010 0 H 212pp £45.00/US$90.00 July 1992

### The Annexins

Edited by S E Moss

The annexin family presently consists of some 13 members expressed in organisms as widely diverse as higher plants, slime moulds, metazoa, 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.

ISBN 1 85578 008 9 H 173pp £39.50/US$70.00 October 1992

### Biochemical Nomenclature and Related Documents: A Compendium

Edited by C Lhébecq

Published for the International Union of Biochemistry and Molecular Biology by Portland Press


### Animal Experimentation and the Future of Medical Research

Edited by Dr Jack Botting

ISBN 1 85578 038 0 P 96pp £16.95/US$30.00 December 1992

Information available on request.