

Student Textbooks

Understanding the Control of Metabolism

By David Fell, Oxford Brookes University, UK

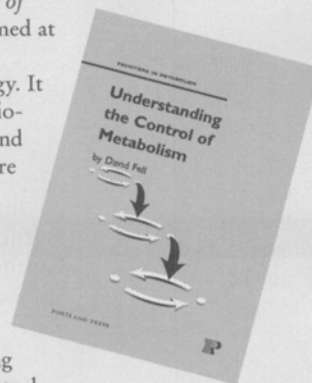
Frontiers in Metabolism, No. 2 Series Editor; Keith Snell, Institute of Cancer Research, Sutton, UK

This is the first textbook devoted to the new view on the regulation of metabolism, opened by the theory of Metabolic Control Analysis.

It examines the impact of this theory on conventional concepts of how pathways are controlled and argues that many widely-held ideas that pre-date Control Analysis are misleading.

As well as providing the fundamentals of Metabolic Control Analysis, using the minimum of mathematics, the book surveys its use in experiments. This is set in the context of the relevant enzyme kinetics and techniques for investigating metabolism on which the theory draws.

Understanding the Control of Metabolism is primarily aimed at undergraduates studying metabolism and enzymology. It will also be of interest to biochemists, microbiologists and molecular biologists who are interested in changes in metabolic flux induced naturally by signal transduction mechanisms or artificially via genetic manipulation. This book also considers the surprising lessons that Metabolic Control Analysis offers biotechnologists aiming to manipulate metabolic flux, and looks at how cells do this for themselves.

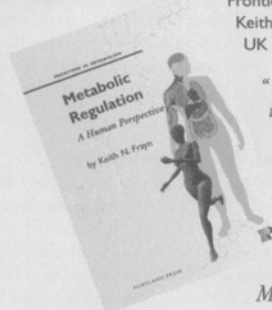


1 85578 047 X Paper November 1996 312 pages £18.95/US\$32.20

Metabolic Regulation: A Human Perspective

By Keith Frayn University of Oxford, UK

Frontiers in Metabolism, No. 1 Series Editor; Keith Snell, Institute of Cancer Research, Sutton, UK



"The real strength of this book is that it avoids the extreme reductionist approach and presents the reader with a whole-body physiological approach, thereby giving the subject matter relevance."

Professor Malcolm Watford, Rutgers University

Metabolic Regulation: A Human Perspective conveys a modern picture of

metabolism which shows there is more to understanding metabolism than being able to reproduce pathway sequences. It aims to make the study of metabolic regulation more interesting to students by placing it firmly in the context of normal daily life.

Metabolic Regulation: A Human Perspective will be invaluable to students across a broad range of the allied health sciences, including nutrition, dietetics, sports science and nursing. This volume will also be extremely useful to both college and university students of biochemistry, medicine and the life sciences. It will be a welcome addition for any student preparing for a career in human physiology.

1 85578 048 8 Paperback April 1996 284 pages £18.95/US\$32.20

Fundamentals of Enzyme Kinetics

By Athel Cornish-Bowden, LCB-CNRS, France

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

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Essays in Biochemistry now enters its fourth decade with a new image! While the original concept of the series remains un-changed, it was felt that the usefulness of any one issue might be enhanced by drawing together a range of related chapters on a single theme. In this vein, volume 32, a special edition by Dianna Bowles at the University of York focuses on the important topic of Cell Signalling.

From Volume 33 we are delighted to welcome Dr Steve Higgins, University of Leeds, as Editor-in-Chief. The new Editor plans to continue the trend of themed issues and is currently signing up authors for a volume devoted to 'The Molecular Biology of the Brain'.

Volume 32: Cell Signalling

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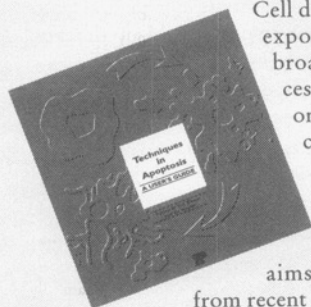
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Thomas G Cotter University College, Cork, Ireland, & Seamus J Martin, La Jolla Institute for Allergy and Immunology, USA

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X-ray Microanalysis for Biologists

By Alice Warley, UMDS St Thomas's Hospital, London, UK.
Series Editor: Audrey M Glauert University of Cambridge, UK

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1 85578 054 2 Paperback June 1997 280 pages £39.50/US\$67.00

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Membrane Protein Expression Systems: A User's Guide

Edited by Gwyn Gould, University of Glasgow, UK

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