ADVERTISING RATES

Cover and Special Positions £90
Full Page £70
Half Page £40
Quarter Page £25
Agency Commission 10%
Publisher's Discount 10%

All communications regarding advertising matters should be addressed to:

Advertisement Section,
Biochemical Society,
7 Warwick Court,
London WC1R 5DP
Telephone: 01-242 1076
(4 lines)

THE BIOCHEMICAL JOURNAL

The Biochemical Journal
Cumulative Indices

Save Research Time
Busy researchers and authors find that these multi-volume indices are invaluable. Where time is money the cost is recovered quickly. Produced as a service to subscribers and priced accordingly.

Volumes £ p U.S.$
21–30 0·75 2·50
31–40 2·00 5·50
41–65 2·75 7·50
66–90 3·25 9·00
91–115 5·25 13·00
116–130 5·50 15·00

All prices include postage (by surface mail to overseas)

Available from:
The Biochemical Society
/Publications
PO BOX 32 Commerce Way
Whitehall Industrial Estate
Colchester CO2 8HP Essex
NOW!
Regularly available:
(α-32P)-labelled nucleotides
at about 100 Ci/mmol

[α-32P] ATP  [α-32P] dATP
[α-32P] CTP  [α-32P] dCTP
[α-32P] GTP  [α-32P] dGTP
[α-32P] UTP  [α-32P] TTP

Each group available on the same
day on a four-weekly schedule

Please enquire for details of
prices and schedules.

The Radiochemical Centre
Amersham

The Radiochemical Centre Limited, Amersham, England.
Tel: Little Chalfont (024 04) 4444.
In the Americas: Amersham/Searle Corp, Illinois 60005.
Tel: 312-529-4300.
In W. Germany: Amersham Buchler GmbH & Co, KG,
Braunschweig.
Tel: 05307-4693-97.
THE BIOCHEMICAL SOCIETY
SPECIAL PUBLICATIONS SERIES

No. 1  BIOCHEMISTRY AND MENTAL ILLNESS

Edited by L. L. IVERSEN and S. P. R. ROSE
1973  251 pp.  £4.50 ($12.00)

No. 2  BIOCHEMISTS IN INDUSTRY

Edited by K. W. FULLER
1973  58 pp.  £1.25 (U.S. $3.50)

No. 3  THE METABOLISM AND FUNCTION OF VITAMIN D

Edited by D. R. FRASER
1974  114 pp.  £4.00 ($10.50)

No. 4  MEMBRANE ADENOSINE TRIPHOSPHATASES AND TRANSPORT PROCESSES

Edited by J. R. BRONK
1974  197 pp.  £5.00 ($12.50)

Available from your bookseller or agent, or direct from

THE BIOCHEMICAL SOCIETY (PUBLICATIONS)
P.O. Box 32, Commerce Way,
Colchester CO2 8HP, Essex

Leaflets giving details of contents of the above publications are available on request
No. 36  NEUROTRANSMITTERS AND METABOLIC REGULATION
Edited by R. M. S. SMELLIE
1972 169 pp.  £4.00 ($12.00)

No. 37  THE STRUCTURE AND FUNCTIONS OF EUKARYOTIC RIBOSOMES
Edited by R. M. S. SMELLIE
1973 130 pp.  £3.50 ($10.50)

No. 38  NITROGEN METABOLISM IN PLANTS
Edited by T. W. GOODWIN and R. M. S. SMELLIE
1973 351 pp.  £8.00 ($20.00)

No. 39  CALCIUM AND CELL REGULATION
Edited by R. M. S. SMELLIE
1974 161 pp.  £5.00 ($13.50)

No. 40  THE METABOLISM AND FUNCTION OF GLYCOPROTEINS
Edited by R. M. S. SMELLIE and J. G. BEELEY
1974 189 pp.  £7.00 ($17.50)

This volume records the proceedings of a symposium held in University College London in April 1974. Each of the ten papers is by an international authority and presents a survey of recent progress in certain aspects of the study of glycoproteins. Topics include methods of analysis, the nature of the carbohydrate–peptide linkage, heterogeneity of glycoproteins, sites of glycosylation, assembly of the carbohydrate moieties, immunoglobulin synthesis, sialic acid modifications, the role of sialic acid and the structure of blood-group-specific glycoproteins in normal and transformed cells.

Available from your bookseller or agent, or direct from
THE BIOCHEMICAL SOCIETY (PUBLICATIONS)
P.O. Box 32, Commerce Way,
Colchester CO2 8HP, Essex

Leaflets giving details of contents of the above publications are available on request
CLINICAL SCIENCE AND MOLECULAR MEDICINE
Formerly Clinical Science

EDITORIAL BOARD

For the Biochemical Society
J. A. OWEN, Chairman
K. G. M. M. ALBERTI, T. M. ANDREWS, H. S. BACHELARD, B. H. BILLING,
A. M. BRECKENRIDGE, D. J. GALTON, D. GOMPERTZ, T. D. R. HOCKADAY,
G. H. LATHE, I. MACINTYRE, K. L. MANCHESTER, B. E. C. NORDIN

For the Medical Research Society
D. C. FLENLEY, Deputy Chairman
A. J. BELLINGHAM, R. H. DOWLING, A. V. HOFFBRAND, N. F. JONES,
G. J. R. McHARDY, M. I. M. NOBLE, D. K. PETERS, P. RICHARDS,
B. F. ROBINSON, J. D. H. SLATER, J. D. SWALES

Vol. 50, No. 1

CONTENTS

January 1976

Guidance for authors

The fate of circulating lactate dehydrogenase-5 in the rabbit. By A. R. QURESHI and J. H. WILKINSON

Effect of liver failure on the cerebral circulatory and metabolic responses to hypoxia in the goat. By N. N. STANLEY and N. S. CHERNIACK

Effect of liver failure on the ventilatory response to hypoxia in man and the goat. By N. N. STANLEY, S. G. KELEN and N. S. CHERNIACK

The pattern of venous drainage of surgically created side-to-side arteriovenous fistulae in the human forearm. By J. P. JAMISON and W. F. M. WALLACE

Measurement by venous occlusion plethysmography of blood flow through surgically created arteriovenous fistulae in the human forearm. By W. F. M. WALLACE and J. P. JAMISON

The role of the colon in urea metabolism in man. By J. A. GIbson, N. J. PARK, G. E. SLADEN and A. M. DAWSON

Synthesis of folate polyglutamates in human cells. By A. V. HOFFBRAND, E. TRIPP and A. LAVOIE

A comparison of the clearance of urographic contrast medium (sodium diatrizoate) by peritoneal and haemodialysis. By P. ACKRILL, C. S. McINTOSH, C. NAMMON, L. R. I. BAKER and W. R. CATTELL

SHORT COMMUNICATIONS

Acid hydrolase activities and lysosomal integrity in liver biopsies from patients with iron over-load. By T. J. PETERS and CAROL A. SEYMOUR

Absence of an acute effect of calcium or parathyroid hormone administration on plasma renin activity in man. By S. EPSTEIN, J. SAGEL, H. BRODOVSKY, S. TUFF and L. EALES

Ventilatory response to carbon dioxide in tetanus. By O. O. ELEGBELEYE and D. FEMI-PEARSE

Effects of halothane on pulmonary inactivation of noradrenaline and prostaglandin in anaesthetized dogs. By Y. S. BAKHLE and A. J. BLOCK

Subscription: £2.75 ($8.50) per part; £28.00 ($100.00) per year.
Orders may be placed with your bookseller, or sent direct to the publishers.

BLACKWELL SCIENTIFIC PUBLICATIONS LTD
5 ALFRED STREET, OXFORD OX1 4HB, ENGLAND
### Biochemical Tools

19,114-0 7-Aminocephalosporanic acid (7-ACA)

- 1g $15.00  
- 5g $60.00


- 100mg $8.00

19043-8 l-Phenylalaninol

- 1g $4.00  
- 10g $25.00

85,866-8 S-Benzyl-l-cysteine-p-nitroanilide

- 100mg $4.50  
- 500mg $12.00

86,050-6 Metrizamide

- 10g $28.50

19,117-5 dl-β-Chlorophenyllalaninol
Inhibits the binding of phenylalanine to phenylalanine tRNA synthetase. *Biochemistry*, 6, 827 (1967).

- 1g $5.40  
- 5g $18.00

85,905-2 8-Hyppuryl-l-histidyl-l-leucine

- 50mg $20.00

P3680-0 9-Phenyld-2,3,7-trihydroxy-6-fluorone (fluorone black)

- 10g $32.00

---

**Aldrich Chemical Company, Inc.**

**Craftsmen in Chemistry**

---

*Printed in Great Britain by William Clowes & Sons Limited, London, Colchester and Beccles*