THE BIOCHEMICAL SOCIETY
OFFICERS AND COMMITTEE, 1970–71

Chairman of the Committee
G. A. D. HASLEWOOD

Committee Secretary
A. N. DAVISON

Meetings Secretary
H. M. KEIR

International Secretary
A. P. MATHIAS

Treasurer
W. F. J. CUTHBERTSON

Assistant Treasurer
D. F. ELLIOTT

Committee
J. S. D. BACON
R. B. BEECHEY
W. BARTLEY
R. M. C. DAWSON
D. T. ELMORE

R. HOFFENBERG*‡
A. KORNER
H. A. KREBS
D. J. MANNERS*†
S. V. PERRY

D. C. PHILLIPS
P. J. RANDLE
D. S. ROBINSON*†
R. M. S. SMELLIE§
D. G. WALKER*†

* Ex officio Member of Committee.
† Representative of Editorial Board of the Biochemical Journal.
‡ Representative of Editorial Board of Clinical Science.
§ Symposium Organizer.

The Biochemical Society exists to advance the science of biochemistry through meetings and publications. Eleven meetings a year are held, each at a different place; original papers are presented and special topics are discussed at symposia and colloquia.

Persons interested in biochemistry are eligible for election as Members. Details of further facilities accorded to Members, and forms of application for membership, are available from the Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP (01-242 1076/7/8/9).

The Biochemical Journal is published and distributed by the Biochemical Society. It is published twice monthly, in four or more volumes per year. It is planned that five volumes will appear in 1970. The index for each volume is published separately.

Subscriptions to the Biochemical Journal. For non-members of the Biochemical Society the subscription to the Journal at the present rate of publication is £45 per year (£9 per volume). For non-members in the U.S.A. the subscription is $108 per year ($22 per volume). All subscriptions are payable in advance at the time of ordering. Orders and subscriptions should be sent to the Biochemical Society (Publications), 7 Warwick Court, London WC1R 5DP.

Claims regarding issues lost or damaged in transit should be addressed to the Biochemical Society at the address in the preceding paragraph. No claims can be entertained if they are received later than three months after the date of posting of the Journal.

Back Numbers. Enquiries for volumes 1–19 should be addressed to William Dawson & Sons Ltd., Back Issues Department, Cannon House, Park Farm Road, Folkestone, Kent. Quotations for available issues of subsequent volumes and parts may be obtained on application to Walter J. Johnson Ltd., Berkeley Square House, Berkeley Square, London W1X 6BA, or to the Biochemical Society.

Advertisements. Applications for advertising space should be sent to the Advertising Department, The Biochemical Society, 7 Warwick Court, London WC1R 5DP (01-242 1076/7/8/9). Copy is required eight weeks before publication date. Rate cards are available on request.

Microfilms. Volumes 1–61 (1906–1955) have been recorded on microfilm by Micro Methods Ltd., East Ardsley, Wakefield, Yorks. Details are available from the firm or the Biochemical Society.
SHORT COMMUNICATIONS

The effect of 17α-ethinyl-substituted steroids on adenosine triphosphatases of rat liver plasma membrane.

By T. A. J. Heikel and G. H. Lathe  . . . 187

Changes in the phosphorylation and thiol content of histones in phytohaemagglutinin-stimulated lymphocytes.

By M. E. Cross and M. G. Ord  . . . 191

Pyruvate kinase of hepatoma Morris 5123: insensitivity to dietary changes.

By G. Campadelli-Fiume, E. Della Corte and F. Stirpe  . . . 195

 Biosynthesis of 24-ethylcholesta-5,22,25-trien-3β-ol, a new sterol from Clerodendrum campbellii.

By L. M. Bolger, H. H. Rees, E. L. Ghisalberti, L. J. Goad and T. W. Goodwin  . . . 197

INDEX TO AUTHORS

Ackers, J. P.  . . . 73
Adamson, R. H.  . . . 41
Aldridge, W. N.  . . . 171
Ashcroft, S. J. H.  . . . 143
Ayad, S.  . . . 61

Bachelard, H. S.  . . . 25
Bailey, E.  . . . 155
Balasingam, K.  . . . 15
Blackmore, M. A.  . . . 53
Bolger, L. M.  . . . 197
Böttger, M.  . . . 99
Bridges, J. W.  . . . 41, 47
Brown, C. R.  . . . 123

Campadelli-Fiume, G.  . . . 195
Chader, G. J.  . . . 93
Cozzani, I.  . . . 135
Cross, M. E.  . . . 191

Della Corte, E.  . . . 195

Fatterpaker, P.  . . . 111
Ferdinand, W.  . . . 15
French, M. R.  . . . 47

Ghisalberti, E. L.  . . . 197
Goad, L. J.  . . . 197
Goldspink, D. F.  . . . 9
Goodwin, T. W.  . . . 197
Gough, D. P.  . . . 163, 167

Graffzi, A.  . . . 99
Green, N. M.  . . . 67, 71

Hartree, E. F.  . . . 123
Hedeshkov, C. J.  . . . 143
Heikel, T. A. J.  . . . 187
Hemming, F. W.  . . . 163, 167

Jordan, T. W.  . . . 1
Joynson, M. A.  . . . 71
The isolation and composition of two phosphoproteins from hen's egg. By R. C. Clark
Lipid metabolism in the perfused chicken liver. Lipogenesis from glucose, acetate and palmitate. By R. Bickerstaffe, C. E. West and E. F. Annison
Lipid metabolism in the perfused chicken liver. The uptake and metabolism of oleic acid, elaidic acid, cis-vaccenic acid, trans-vaccenic acid and stearic acid. By R. Bickerstaffe and E. F. Annison
Plasma protein catabolism by the perfused rat liver. The effect of alteration of albumin concentration and dietary protein depletion. By R. Hoffenberg, A. H. Gordon, E. G. Black and L. N. Louis
Mammalian D-2-hydroxy acid dehydrogenase. Effect of inhibitors and reaction sequence. By R. Cammack
The isolation and characterization of lysosomal particles from myxamoebae of the cellular slime mould Dictyostelium discoideum. By E. Wiener and J. M. Ashworth
Differential long-term effects of D-chloramphenicol on the biogenesis of mitochondria in normal and regenerating rat liver. By N. F. González-Cadavid, E. M. A. Bello and J. L. Ramírez
The synthesis of bile acids in perfused rat liver subjected to chronic biliary drainage. By I. W. Percy-Robb and G. S. Boyd
Effects of 3-methylcholanthrene pretreatment on microsomal hydroxylation of 2-acetamidofluorene by various rat hepatomas. By P. D. Lotlikar
Kinetic studies of glutamate dehydrogenase. The reductive amination of 2-oxoglutarate. By P. C. Engel and K. Dalziel
Partial purification and kinetics of oestradiol 16α-glucuronyltransferase from the cytosol fraction of human liver. By G. S. Rao, M. L. Rao and H. Breuer
Glycerol metabolism in the neonatal rat. By R. G. Vernon and D. G. Walker
Amino acid sequences around the disulphide bridges and methionine residues of porcine pepsin. By J. Tang and B. S. Hartley
The locations of cathepsin activity and β-glucuronidase in the Guerin T8 tumour. By A. R. Poole
NOTES FOR CONTRIBUTORS

It is the policy of the Biochemical Journal to publish papers in English in all fields of biochemistry, provided that they make a sufficient contribution to biochemical knowledge. Papers may include new results obtained experimentally, descriptions of new experimental methods of biochemical importance, or new interpretations of existing results. All work presented should have as its aim the development of biochemical concepts rather than the mere recording of facts. Preliminary or inconclusive experiments should not generally be described.

For detailed instructions on the preparation of papers contributors should refer to Policy of the Journal and Instructions to Authors [Biochem. J. (1970), 116, 1] (obtainable from the Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP, price 3s. 0d. post free). In general the Biochemical Journal uses the recommended SI (Système International) symbols [see Symbols, Signs and Abbreviations Recommended for British Scientific Publications (1969) (London: The Royal Society)]. For biochemical nomenclature authors should as far as possible follow the Tentative Rules and Proposals of the IUPAC-IUB Commission on Biochemical Nomenclature [see Biochem. J. (1970), 116, 10]. For chemical nomenclature the system of the Chemical Society should be used [see Handbook for Chemical Society Authors (1961), pp. 46-163]. The Biochemical Journal uses as a standard of spelling the Concise Oxford Dictionary of Current English (Oxford: Clarendon Press).

Two types of paper are accepted by the editors: Full-length papers. Papers submitted for publication should be sent together with an extra copy of the synopsis to the Executive Secretary, The Biochemical Journal, 7 Warwick Court, London WC1R 5DP. Typescripts should bear the name and address of the person to whom the proof of the paper is to be sent.

Papers submitted should be written concisely. Typescripts that are not concise or do not conform to the conventions of the Biochemical Journal will be returned to the authors for revision. If a paper that has been returned to an author for revision is not resubmitted within one month, it will, on resubmission, be deemed to be a new paper and the date of receipt altered accordingly. A revised paper containing a significant amount of new material will also be redated.

Submission of a paper to the Editorial Board implies that it reports unpublished work, that it is not under consideration for publication elsewhere, and that if accepted for the Biochemical Journal it will not be published elsewhere in the same form, either in English or in any other language, without the consent of the Editorial Board.

Papers should be headed by a full and informative title (it should be borne in mind that scientific information services may index only the key words that appear in the title), by the names of the authors and by the name and address of the establishment where the work was performed. Details of financial support may appear in the acknowledgements at the end of the paper.

Before preparing papers authors should consult a current issue of the Journal to make themselves familiar with the general format, such as the use of cross-headings, lay-out of tables and citation of references. The need for revision of badly prepared typescripts or diagrams will delay publication. Papers should be in double-spaced typing throughout (including references and legends of tables and figures) on sheets of uniform size with wide margins. The top copy should be submitted.

Papers on specialized subjects should be presented so that they are intelligible to the ordinary reader of the Journal. Sufficient information must be included to permit repetition of the experimental work. Theoretical contributions will be considered equally with papers dealing with experimental work.

Short Communications. Typescripts should be submitted in duplicate, written in English, and conform strictly to the form of the Journal as far as spelling and abbreviations are concerned. Such communications must not exceed 1200 words of text, but in addition may include either one table, typed on a separate sheet, or one figure, drawn according to the rules of the Journal. If no figure or table is included the text may be expanded to 1400 words. Communications should be addressed to the Editorial Secretary, The Biochemical Journal, 7 Warwick Court, London WC1R 5DP. Papers should be complete in themselves; (1) the methods used in experimental work must be adequately described or sufficient references given to allow repetition of the work; (2) sufficient indication of the results of experimental work must be included to justify the claims made.
THE BIOCHEMICAL JOURNAL

JUNE 1st 1970

Index to Advertisers

Advertiser's Index inside back cover
Advertising Rates inside back cover

Aldrich Chemical Co. outside back cover
Anderman ix
Boehringer Corporation viii
BDH xi
C.U.P. x
Elsevier inside back cover
Hoechst vi
I.C.I. ix
Miles-Seravac vii
Pharmacia iv
Walter de Gruyter xii

CHEMICO-BIOLOGICAL INTERACTIONS

An international journal devoted to studies of the mechanisms by which exogenous chemicals produce changes in biological systems.

Managing Editor:
G. P. Warwick (London, Great Britain)

Associate Managing Editors:
E. Farber (Pittsburgh, Pa., U.S.A.)
B. Ketterer (London, Great Britain)

This journal contains papers dealing with the effects produced by chemicals foreign to the organism being studied, and which by molecular interactions, or incorporation, produce changes in biological structure and function.

About two volumes per year. £10 9s. 6d. plus 12s. 6d., postage per volume.

A leaflet giving the contents of Vol. 1 is available on request by writing to Miss N. Hodde at

Elsevier
P.O. Box 211
Amsterdam - The Netherlands

ADVERTISING RATES

Cover and Special Positions £46
Full Page £38
Half Page £20
Quarter Page £11

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