

# The Biochemical Journal

# 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

W. BARTLEY

R. B. BEECHEY

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 1971. 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 1971 subscription is \$110 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 1-89 (1906-1963) have been recorded on microfilm by Micro Methods Ltd., East Ardsley, Wakefield, Yorks. Details are available from the firm or the Biochemical Society.

London: The Biochemical Society© 1971

## INDEX TO AUTHORS

	PAGE		PAGE
Andrews, T. M. . . . .	683	Lawson, D. E. M. . . . .	673
Baddiley, J. . . . .	695	Louis, B. G. . . . .	621, 629, 635
Bamberger, E. S. . . . .	609	Masters, C. J. . . . .	735
Bell, P. A. . . . .	673	Mayberry, M. . . . .	731
Bourne, E. J. . . . .	663	Nelson, E. C. . . . .	731
Clark, J. B. . . . .	655	Nicholson, D. C. . . . .	601
Clarke, K. . . . .	663	Partridge, M. D. . . . .	695
Davison, A. L. . . . .	695	Pelc, B. . . . .	673
Dixon, H. B. F. . . . .	587, 591	Peterkin, P. I. . . . .	613, 635
Fatterpaker, P. . . . .	643	Phelps, C. F. . . . .	701, 711, 721
Ferris, G. M. . . . .	655	Pridham, J. B. . . . .	663
Fields, R. . . . .	587, 591	Reid, R. . . . .	731
Fitt, P. S. . . . .	613, 621, 629, 635	Rodnight, R. . . . .	597
Gillham, B. . . . .	667	Rotenberg, D. . . . .	609
Jackson, A. H. . . . .	601	Rowe, J. J. M. . . . .	663
John, K. V. . . . .	731	Sreenivasan, A. . . . .	643
Jones, D. A. . . . .	597	Tata, J. R. . . . .	683
Kenner, G. W. . . . .	601	Wilson, P. W. . . . .	673
Kochva, E. . . . .	609	Winterburn, P. J. . . . .	701, 711, 721
Kodicek, E. . . . .	673	Winzor, D. J. . . . .	735
Kondo, T. . . . .	601	Yui, C. . . . .	591
Koppikar, S. V. . . . .	643		
Law, G. R. . . . .	591		

## PAPERS ACCEPTED FOR PUBLICATION

- The subunits of chemically treated proteoglycan isolated from bovine nasal cartilage. By A. SERAFINI-FRACASSINI, W. H. STIMSON and L. FLOREANI
- Phosphatidylcholine-cholesterol acyltransferase in the ultracentrifugal residual protein fraction of rat plasma. By M. SUGANO
- Changes in drug-metabolizing activities in the livers of suckling rats as a result of treatment of the lactating mothers with phenobarbitone and chlorpromazine. By F. J. DARBY
- The substrate specificity of purine phosphoribosyltransferases in *Schizosaccharomyces pombe*. By A. DE GROOT, E. WHITEHEAD, H. HESLOT and L. POIRIER
- Isoelectric focusing of proteins in the native and denatured states. Anomalous behaviour of plasma albumin. By M. R. SALAMAN and A. H. WILLIAMSON
- Accumulation of untranslated lactose-specific messenger ribonucleic acid during catabolite repression in *Escherichia coli*. By M. ABOUD and M. BURGER
- The binding of cyanide to ferroperoxidase. By C. PHELPS, E. ANTONINI and M. BRUNORI
- Chemical composition of an oestrogen-induced calcium-binding glycolipophosphoprotein in *Xenopus laevis*. By A. Q. ANSARI, K. A. MUNDAY, P. J. DOLPHIN and M. AKHTAR
- The biosynthesis of galactofuranosyl residues in galactocarolose. By A. GARCIA TREJO, J. W. HADDOCK, G. J. F. CHITTENDEN and J. BADDILEY
- Template activity of chromatin during stimulation of cellular proliferation in human diploid fibroblasts. By J. FARBER, G. ROVERA and R. BASERGA
- The isotope exchange reactions of ox heart phosphofructokinase. By E. C. HULME and K. F. TIPTON
- The metabolism of retinyl methyl ether in the rat *in vivo*. By S. NARINDRASORASAK, P. PIMPA and M. R. LAKSEMANAN
- Studies on the structure-bound sedimentability of some rat liver lysosome hydrolases. By F. M. BACCINO, G. A. RITA and M. F. ZURETTI
- Kinetics and mechanism of catalase in peroxisomes of the mitochondrial fraction. By B. CHANCE and N. OSHINO
- An improved procedure for the isolation of 3-phosphoglycerate kinase from yeast. By R. K. SCOPES
- The role of adenosine 3':5'-cyclic monophosphate in the regulation of insulin release by isolated rat islets of langerhans. By W. MONTAGUE and J. R. COOK
- Albumin synthesis by the perfused rat liver. A comparison of methods with special reference to the effect of dietary protein deprivation. By R. HOFFENBERG, A. H. GORDON and E. G. BLACK
- Ribosomal ribonucleic acid synthesis in *Bacillus subtilis*. By R. J. AVERY and J. E. M. MIDGLEY
- The control of ribonucleic acid synthesis in bacteria. The synthesis and stability of ribonucleic acid in chloramphenicol-inhibited cultures of *Escherichia coli*. By J. E. M. MIDGLEY and W. J. H. GRAY
- The control of ribonucleic acid synthesis in bacteria. The synthesis and stability of ribonucleic acid in rifampicin-inhibited cultures of *Escherichia coli*. By W. J. H. GRAY and J. E. M. MIDGLEY

# 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. Theoretical contributions will be considered equally with papers dealing with experimental work. 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.* (1971), 121, 1] (obtainable from the Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP, price 15p. post free). In general the *Biochemical Journal* uses the recommended SI (Système Internationale) 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.* (1971), 121, 11]. For chemical nomenclature the IUPAC Rules should be followed [see *Biochem. J.* (1971), 121, 11]. 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 Editorial 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 concise but informative 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. 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. It cannot be overemphasized that the need for revision of badly prepared typescripts inevitably leads to delays in publication.

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.

**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.