

The BIOCHEMICAL JOURNAL

15 August 1978

Volume 174, No. 2

EDITORIAL BOARD

Chairman
J. T. Dingle

Deputy Chairmen
J. A. Lucy
A. P. Ryle
D. H. Williamson
R. E. Offord

Editorial Office Manager
A. G. J. Evans

P. M. Bayley*
J. W. Bradbeer
R. C. Bray
D. N. Brindley
H. G. Britton
R. B. Cain
M. Cannon
J. B. Clark
A. J. Cornish-Bowden
D. D. Davies
R. M. Denton
F. M. Dickinson
R. R. Dils
G. J. Dutton
J. L. Gordon
D. E. Griffiths
L. A. Grivell
M. R. Hollaway

R. C. Hughes
A. J. Kenny
P. Lund
W. I. P. Mainwaring
R. M. Marchbanks
C. I. Pogson
D. Robinson
E. V. Rowsell
D. Schulster
J. E. Scott
S. P. Spragg*
D. R. Stanworth
M. J. A. Tanner

*Nominated by the British
Biophysical Society

Overseas Advisory Panel

H. Beinert (*U.S.A.*), C. de Duve (*Belgium and U.S.A.*), H. F. DeLuca (*U.S.A.*), W. Fiers (*Belgium*), O. Hayaishi (*Japan*), B. Hess (*Germany*), M. Ya. Karpeisky (*U.S.S.R.*), D. B. Keech (*Australia*), T. C. Laurent (*Sweden*), P. Siekevitz (*U.S.A.*), G. P. Talwar (*India*), A. Tissières (*Switzerland*), O. Wieland (*Germany*), H. G. Williams-Ashman (*U.S.A.*)



London : The Biochemical Society

THE BIOCHEMICAL SOCIETY

OFFICERS AND COMMITTEE, 1978-79

Chairman of the Committee

R. R. Porter, F.R.S.

Treasurer

D. F. Elliott

General Secretary

J. B. Lloyd

Publications Secretary

R. M. C. Dawson

Meetings Secretary

H. F. Bradford

Committee

G. B. Ansell

J. R. Bronk

E. G. Brown

N. G. Carr

P. H. Clarke, F.R.S.

J. T. Dingle*

P. F. Fottrell

C. Green

M. I. Gurr

F. W. Hemming

H. K. King

J. C. Metcalfe

I. H. M. Muir, F.R.S.

J. W. Porteous, F.R.S.E.

B. E. Ryman

**Ex officio Member of Committee;
Representative of Editorial Board
of the Biochemical Journal.*

Executive Secretary

A. I. P. Henton (7 Warwick Court, London WC1R 5DP)

The Biochemical Society exists to advance the science of biochemistry through meetings and publications. Several 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 (4 lines)].

Second-class postage paid at New York, NY, U.S.A.

NOTICE FOR CONTRIBUTORS

The *Biochemical Journal* places emphasis on the prompt publication of both **full-length papers** (on average about 6 months after receipt) and **rapid papers** (on average 10–12 weeks after receipt).

For detailed instructions on the preparation of papers contributors (who need not be members of the Biochemical Society) should refer to *Policy of the Journal and Instructions to Authors* [*Biochem. J.* (1978) **169**, 1–27] (obtainable free on request, in booklet form, from the Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP).

Papers submitted for publication should be addressed to the Editorial Office Manager, Biochemical Journal, 7 Warwick Court, London WC1R 5DP.

Contributors should note that the *Biochemical Journal* makes no manuscript handling charges, no page charges and no charges for plates. Reprints are available at modest cost at about the same time as publication, and, if an author is a member of the Biochemical Society, 50 reprints are provided free of charge.

NOTICE FOR SUBSCRIBERS

The Biochemical Journal is published and distributed by the Biochemical Society. It is published twice monthly, alternate issues being devoted to **Molecular Aspects** and to **Cellular Aspects** of biochemistry. It is planned that in 1978 eight volumes, each volume being made up of three issues, will be published according to the following schedule:

Molecular Aspects			Cellular Aspects		
1978	Vol.	Part	1978	Vol.	Part
1 Jan.	169	1	15 Jan.	170	1
1 Feb.	169	2	15 Feb.	170	2
1 Mar.	169	3*	15 Mar.	170	3*
1 Apr.	171	1	15 Apr.	172	1
1 May	171	2	15 May	172	2
1 June	171	3*	15 June	172	3*
1 July	173	1	15 July	174	1
1 Aug.	173	2	15 Aug.	174	2
1 Sept.	173	3*	15 Sept.	174	3*
1 Oct.	175	1	15 Oct.	176	1
1 Nov.	175	2	15 Nov.	176	2
1 Dec.	175	3*	15 Dec.	176	3*

*Completes volume, and includes Indexes.

Biochemical Society Transactions. This is a separate publication (see below). Volume 6 will be published in 1978, in six parts.

Subscription Rates to the Biochemical Journal. For non-members of the Biochemical Society the subscription rates for 1978 are shown below.

Subscribers to the *Biochemical Journal* can subscribe to *Biochemical Society Transactions* on a joint subscription, saving £15.00 (U.K. and Ireland) or \$25.00 (elsewhere). The methods of despatch of both publications are shown below.

Terms are cash with order or against proforma invoice. Orders and subscriptions should be sent to the Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester CO2 8HP, Essex, or through your normal agent.

Claims regarding issues lost or damaged in transit should be addressed to the Biochemical Society at the address given in the preceding paragraph. Claims cannot be entertained if they are received later than three months after the date of posting, plus such time as would be expected for transit by post.

Back Numbers. Enquiries for volumes 1-19 of the Journal 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 of the Journal, and also of Transactions, may be obtained on application to The Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester CO2 8HP, Essex.

Microforms. The following versions are available.

(a) Microfilm (36 mm): Volumes 1-101.

(b) Microfiche (98-image): Volumes 102-168.

Details and prices are available on request from the Biochemical Society's Colchester office.

Advertisements. Applications for advertising space should be sent to the Advertising Department, The Biochemical Society, 7 Warwick Court, London WC1R 5DP [01-242 1076 (4 lines)]. Copy is required eight weeks before publication date. Rate cards are available on request.

IMPORTANT NOTICE. All subscribers outside the U.K. and Ireland must remit in U.S. \$ or the sterling equivalent at the rate of exchange prevailing at the date of payment.

	U.K. & Ireland only	U.S.A., Canada & Mexico	Japan only	Overseas
1 year (8 volumes)	£170.00	U.S. \$320.00	U.S. \$330.00	U.S. \$300.00
Per volume	£22.00	U.S. \$45.00	U.S. \$46.00	U.S. \$42.00
Per part	£8.00	U.S. \$16.00	U.S. \$16.50	U.S. \$15.00

Airfreight to U.S.A., Canada and Mexico. The subscription rates for North America include an element for this service.
Accelerated Surface Post to Japan only. The subscription rates include a 10% surcharge for this service.

INDEX OF AUTHORS

	PAGE		PAGE	PAGE	
Akhtar, M.	353	Gasperi-Campani, A.	491	Parry, D. M.	387
Ansari, A. Q.	353	Glenny, H. P.	535	Penning, T. M.	353
Ashcroft, S. J. H.	517	Gogotov, I. N.	373	Peters, T. J.	435
		Goldspink, D. F.	595	Pettler, P. J.	397
Bailek, G. E.	647	Goodwin, T. W.	397	Pohl, B.	509
Barbieri, L.	491	Gregory, R. P. F.	647	Powell, G. M.	405, 421
Barford, P. A.	579	Grigor, M. R.	659	Pritchard, P. H.	535, 667
Bartel, H.	509				
Baxter, M. A.	553	Haga, H.-J.	363	Ramachandran, C.	613
Black, J. G.	405	Hall, D. O.	373	Rees, H. H.	397
Blair, J. A.	579	Hammer, C. T.	585		
Bonetti, E.	491	Han, L.-Y.	667	Saggerson, E. D.	641
Bontemps, F.	603	Hansen, S. E.	517	Sánchez-Medina, F.	461
Bowley, M.	535	Hedeskov, C. J.	517	Scott, I. R.	627, 635
Boxer, D. H.	497	Henry, L. E. A.	373	Seglen, P. O.	469
Bremer, J.	379	Hers, H.-G.	603	Seymour, C. A.	435
Brindley, D. N.	535, 667	Higgins, J. A.	563	Smith, D. F.	353
Brophy, P. J.	413	Higgins, S. J.	543	Sperti, S.	491
Brosnan, J. T.	387	Hommes, F. A.	527	Staff, F. J.	579
Bunce, J.	517	Horváth, G.	647	Stirpe, F.	491
Burbach, P.	413	Howes, D.	405	Stocken, L. A.	475
Burchell, J. M.	543	Hue, L.	603	Sturton, R. G.	535, 667
Burditt, S. L.	535	Jones, H. M.	447	Suzuka, I.	503
Busse, D.	509	Kaminskas, E.	453	Sz.-Rózsa, Z.	647
Bygrave, F. L.	613				
Caplan, A.	475	Li, Y.-S.	569	Taylor, A. J.	405
Chohan, P.	663	Lockley, W. J. S.	397		
Cooling, J.	535	Lorenzoni, E.	491	van Deenen, L. L. M.	413
Cooper, S. M.	659	Lowry, M.	517	van Lelyveld, P. H.	527
Coore, H. G.	553	Lupiáñez, J. A.	461	Vargas, A.	461
Cox, J. C.	497			Vessey, D. A.	621
Cryer, A.	447, 663	Macdonald, D. W. R.	641		
Curtis, C. G.	421	MacNicoll, A. D.	421	Wahle, H. U.	509
Dickerson, J. W. T.	655	McCormick, F.	427	Westerman, J.	413
Døskeland, S. O.	363	Montanaro, L.	491	Wills, E. D.	585
		Munday, K. A.	353	Wirtz, K. W. A.	413
Ellar, D. J.	627, 635	Nelemans, S. A.	413	Wishart, G. J.	485, 671
Evans, W. H.	563	Olavesen, A. H.	405	Wusteman, F. S.	421
Faludi-Dánield, Á.	647	Ord, M. G.	475		
Faus, M. J.	461	Osmundsen, H.	379	Yusuf, H. K. M.	655