# The BIOCHEMICAL JOURNAL

June 1973

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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)].

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 1973 six volumes, each volume being made up of four issues, will be published according to the following schedule:

Molecular Aspects			Cellular Aspects		
1973	Vol.	Part	1973	Vol.	Part
1 Jan.	131	1	15 Jan.	132	1
1 Feb.	131	2	15 Feb.	132	2
1 Mar.	131	3	15 Mar.	132	3
1 Apr.	131	4	15 Apr.	132	4
1 May	133	1	15 May	134	1
1 June	133	2	15 June	134	2
1 July	133	3	15 July	134	3
1 Aug.	133	4	15 Aug.	134	4
1 Sept.	135	1	15 Sept.	136	1
1 Oct.	135	2	15 Oct.	136	2
1 Nov.	135	3	15 Nov.	136	3
1 Dec.	135	4	15 Dec.	136	4

Biochemical Society Transactions is a new publication commencing January 1973. It includes extended abstracts of communications (including reports on colloquia and the text of Special Lectures) presented at meetings of the Biochemical Society, book reviews etc. (Note: the *Proceedings of the Biochemical Society* ceased publication in the *Biochemical Journal* at the end of 1972.) In 1973 it is planned that one volume, composed of six issues, will be published.

Biochemical Society Transactions is issued free to all subscribers of the Biochemical Journal only: it is not available on a separate subscription.

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the Journal (plus Transactions) is £70 per year. For non-members in the U.S.A. the subscription is \$180 per year (subject to exchange variation). Terms are cash with order or against proforma invoice. Orders and subscriptions should be sent to the Biochemical Society (Publications), P.O. Box 32, Commerce Way, Whitehall Road Industrial Estate, 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.

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 (Publications), P.O. Box 32, Commerce Way, Whitehall Road Industrial Estate, Colchester CO2 8HP, Essex.

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Microfilms. Volumes 1-89 (1906-1963) of the Journal have been recorded on microfilm by the EP Group, Microfilm Division, Bradford Road, East Ardsley, Wakefield, Yorks. Details are available from them or the Biochemical Society.

CONTENTS vii

#### **Index of Authors**

	PAGE		PAGE		PAGE
Ali, S. Y.	647	Ghafoorunissa	425	Moyle, W. R.	407, 415
Anderson, J. W.	565	Goldberg, D. M.	586	Mozzoli, M.	499
Armstrong, D. T.	399	Green, I. C.	481	Mudd, J. B.	655
Ashcroft, S. J. H.	599	Greep, R. O.	407, 415		
Dational ID I	445	Grundin, R.	367	Narasinga Rao, B. S.	425
Ballard, F. J.	445			Norman, M.	387
Bartley, W.	431	Hanson, R. W.	445	Oldana II. I	472
Bégin-Heick, N.	607	Hems, R.	671	O'Connor, K. J.	473
Bernstein, J.	507, 515, 523	Hers, H. G.	637	O'Donnell, J. M.	667
Bloxham, D. P.	581, 586, 589	Hext, P. M.	629	Orrenius, S.	367
Broad, T. E.	659	Holland, P. C.	581, 586, 589	Owen, O. E.	499
Broomhead, V.	431	Hopgood, M. F.	445	Danton D. A	(55
Burden, E. M.	663	Horton, A. A.	663	Panter, R. A.	655
Burnell, J. N.	565	Howell, S. L.	481	Rabinowitz, M.	377
Cinti, D. L.	367	Hue, L.	637	Randle, P. J.	<b>599,</b> 651
Clark, J. B.	539, 545			Reshef, L.	445
Clark, K.	339, 343	Israel, Y.	507, 515, 523	Rose, F. A.	629
Clark, M. G.	581, 586, 589	Jakovcic, S.	377	Rudel, L. L.	531
•	599	Jakoveic, S. Jones, R. W.	617	Rudel, L. L.	331
Cooper, R. H.	671	•	407, 415	Sarshik, S.	499
Cornell, N. W.		Jungas, R. L.	407, 413	Silbert, J. E.	455, 465
Cripps, R. E.	353	Kornberg, H. L.	489	Smith, M. W.	667
Dawson, R. M. C.	659	Krebs, H. A.	437, 671	Soutar, A. K.	489
Deery, D. J.	557	K1003, 11. A.	457, 071	Spencer, A. F.	455, 465
Dodgson, K. S.	629	Land, J. M.	539, 545	spencer, A. I.	455, 405
Druyan, R.	377	Lardy, H. A.	581, 586, 589	Taylor, K. W.	481, 557
• ,		Lazarus, N. R.	473	Thomas, S.	629
Evans, L.	647	Lewis, R. G.	455, 465	111011140, 2.	027
Felts, J. M.	531	Lund, P.	671	Van den Berghe, G.	637
Ferdinand, W.	431	Zuna, I .	0/1	<b>~</b> ,	07, 515, 523
•		Macdonald, A.	523		,,
Flint, A. P. F.	399	Markus, H.	499	Whitehouse, S.	651
Gamulin, S.	387	Montague, W.	481	Wild, D. G.	617
Gay, A.	473	Morris, M. D.	531	Woods, H. F.	437
		<b></b>		,	.57

### **Papers Accepted for Publication**

Purification and properties of arginase of rat kidney.

By G. A. Kaysen & H. J. Strecker

Multiple forms of acetylcholinesterase from pig brain. By C. H. S. McIntosh & D. T. Plummer

Comparison of the sedimentation and gel-filtration behaviour of human apotransferrin and its copper and iron complexes.

By P. A. Charlwood

Glucose metabolism in the newborn rat. Hormonal effects in vivo.

By K. Snell & D. G. Walker

The effects of environmental temperature on the properties of myofibrillar adenosine triphosphatase from various species of fish.

By I. A. Johnston, N. Frearson & G. Goldspink Control of magnesium protoporphyrin chelatase activity in *Rhodopseudomonas spheroides*. Role of light, oxygen and electron and energy transfer.

By A. Gorchein

Respiration-driven proton translocation by yeast mitochondria with differing efficiencies of oxidative phosphorylation.

By J. A. Downie & P. B. Garland

A comparison of the unfolding and dissociation of the large ribosome subunits from *Rhodopseudomonas* spheroides N.C.I.B. 8253 and *Escherichia coli* M.R.E. 600.

By A. Robinson & J. Sykes

The interaction of inositol hexaphosphate with methaemoglobin.

By J. V. Kilmartin

Effect of insulin on pyruvate metabolism in epididymal adipose tissue of the rat. Correlation of intracellular pyruvate contents and pyruvate dehydrogenase activity.

By B. G. Berman & M. L. Halperin

Deoxyribonucleic acid-dependent ribonucleic acid polymerases from murine spleen cells. Increased amounts of the nucleolar species found in leukaemic tissue.

By D. F. Babcock & M. A. Rich

The subunits and biological activity of polymorphic forms of tropomyosin.

By P. Cummins & S. V. Perry

The kinetics of hydrolysis of synthetic glucuronic esters and glucuronic esters by bovine liver and *Escherichia coli*  $\beta$ -glucuronidase.

By J. Tomasic & D. Keglevic

The acute action of ammonia on rat brain metabolism in vivo.

By R. A. Hawkins, A. L. Miller, R. C. Nielsen & R. L. Veech

Assay, purification, properties and mechanism of action of  $\gamma$ -glutamylcysteine synthetase from the liver of the rat and *Xenopus laevis*.

By J. S. Davis, J. B. Balinsky, J. S. Harington & J. B. Shepherd

Kinetic studies on the acid hydrolysis of the methyl ketoside of unsubstituted and O-acetylated N-acetylneuraminic acid.

By A. Neuberger & W. A. Ratcliffe

Thermolability of 28S ribosomal ribonucleic acid from the liver of *Crotalus durissus terrificus* (Ophida, Reptilia).

By J. F. Giorgini & F. L. De Lucca

A model for the regulation of  $\delta$ -aminolaevulinate synthetase induction in rat liver.

By G. Padmanaban, M. R. Satyanarayana Rao & K. Malathi

Biochemical effects of allylisopropylacetamide, the porphyrinogenic drug. A comparative study with phenobarbital.

By M. R. Satyanarayana Rao & G. Padmanaban Binding of parathyroid hormone to bovine kidney-cortex plasma membranes.

By H. S. Sutcliffe, T. J. Martin, J. A. Eisman & R. Pilczyk

Microbial metabolism of amino alcohols. Metabolism of ethanolamine and 1-aminopropan-2-ol in species of *Erwinia* and the roles of amino alcohol kinase and amino alcohol *O*-phosphate phospholyase in aldehyde formation.

By A. Jones, A. Faulkner & J. M. Turner

Effects of protein-modifying reagents on an isoenzyme of potato apyrase.

By M. A. Valenzuela, G. del Campo, E. Marin & A. Traverso-Cori

Reconstitution of oxidative phosphorylation and the adenosine triphosphate-dependent transhydrogenase activity by a combination of membrane fractions from *uncA* and *uncB* mutant strains of *Escherichia coli* K 12.

By G. B. Cox, F. Gibson & L. McCann

The primary structure of aspartate aminotransferase from pig heart muscle. Partial sequences determined by digestion with thermolysin and elastase.

By F. Bossa, D. Barra, M. Carloni, P. Fasella, F. Riva, S. Doonan, H. J. Doonan, R. Hanford, C. A. Vernon & J. M. Walker

Loss of tryptophan associated with photo-polymerization and yellowing of proteins exposed to light over 300nm.

By K. J. Dilley

Quantitative characteristics of glutamate transport in rat liver mitochondria.

By N. M. Bradford & J. D. McGivan

## 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. Theoretical contributions will be considered equally with papers dealing with experimental work. 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. (1973), 131, 1-20] (obtainable from the Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP, price 20p. post free). The Biochemical Journal uses the recommended SI (Système Internationale) symbols [see Pure Appl. Chem. (1970), 21, 1-44; Quantities, Units and Symbols (1971), The Royal Society, London]. 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. (1973), 131, 9]. For chemical nomenclature the IUPAC Rules should be followed [see Biochem. J. (1973), 131, 12]. The Biochemical Journal uses as a standard of spelling the Concise Oxford Dictionary of Current English (Clarendon Press, Oxford).

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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.

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