

biochemical society transactions

February 1979

Vol. 7, No. 1

**Managing Editor
D. C. WATTS**

**Book Reviews Editor
B. MORELAND**

london: the biochemical society © 1979

Biochemical Society Transactions contains scientific reports of Society Colloquia and Members' Communications presented at the Biochemical Society's Meetings held in various parts of the U.K. and Ireland and, occasionally, in conjunction with other Societies, abroad. Short Biochemical Reviews, Book Reviews, Special Lectures of the Society and other information of biochemical interest are also included. Research papers are not accepted for publication directly.

Manuscripts reporting contributions to a Society Meeting must conform to the style of the *Biochemical Journal*. For general guidance see *Biochem. J.* (1978) **169**, 1-27. Data should be expressed in SI units [see *Pure Appl. Chem.* (1970) **21**, 1-44; *Quantities, Units and Symbols* (1971) The Royal Society, London]. Typescripts are technically sub-edited, but are not edited for scientific content, which is entirely the responsibility of the authors.

Volume 7, Parts 1-6 will be published in February, April, June, August, October and December 1979.

	1 Year	Per Part
U.K. & Eire	£32.00	£5.40
U.S.A., Canada & Mexico (by Airfreight)	U.S. \$70.00	U.S. \$12.50
Japan (by Accelerated Surface Post)	U.S. \$75.00	U.S. \$13.50
Other Overseas Destinations (by Surface Post)	U.S. \$60.00	U.S. \$10.50

Save £15 (U.S. \$25.00)

A combined 1979 subscription to *The Biochemical Journal* and *Biochemical Society Transactions* is offered at the following rates:

U.K. & Eire	£187.00
U.S.A., Canada & Mexico (by Airfreight)	U.S. \$395.00
Japan (by Accelerated Surface Post)	U.S. \$410.00
Overseas (by Surface Mail)	U.S. \$345.00

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.

Orders, back numbers and lost copies. Orders, enquiries for back numbers and claims regarding issues lost or damaged should be addressed to: Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Whitehall Road Industrial Estate, Colchester CO2 8HP.

No claims can be considered if they are received later than three months after the date of posting of *Transactions*, plus such time as would be expected for transit by post.

Back issues of *Biochemical Society Transactions* are available at the following prices:

Volumes 1 and 2 each	£15.00 (\$40.00) [single parts £3.00 (\$8.00)]
Volume 3	£18.00 (\$40.00) [single parts £3.20 (\$8.00)]
Volume 4	£24.00 (\$50.00) [single parts £4.20 (\$10.50)]
Volume 5	£28.00 (\$55.00) [single parts £4.80 (\$10.50)]
Volume 6	£32.00 (\$60.00) [single parts £5.40 (\$10.50)]

N.B. By Surface Mail to overseas addresses.

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.

The Biochemical Society exists to advance the science of biochemistry through meetings and publications. Meetings are held at different places; 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 [Telephone 01-242 1076 (4 lines)].

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

INDEX OF AUTHORS

- Adams, M. 49
 Adams, T. H. 55
 Afonso, A. M. M. 170
 Alcañiz, J. 113
 Al-Shaikhaly, M. H. 215
 Alvarez, I. 191
 Anderton, B. H. 154
 Anthony, C. 179, 182
 Appleby, J. A. 134
 Azagra, E. 150
 Azzi, A. 156
- Banner, M. 168
 Barker, S. A. 5
 Bartels, P. 204
 Baum, H. 213, 215
 Beechey, R. B. 224
 Billington, D. 106
 Bisson, R. 156
 Bloxham, D.P. 103
 Borrell, J. 113
 Boyd, G. S. 228
 Brand, I. 227
 Brand, M. D. 221
 Branford White, C. J. 134
 Bridges, J. W. 117, 119, 129
 Bückmann, A. F. 1
- Cameron, R. G. 32
 Campbell, G. R. 23
 Capdevila, J. 122
 Carter, C. J. 140
 Carty, P. 23, 26
 Cattell, K. J. 136
 Clark, J. B. 231
 Clynes, M. M. 30, 72
 Cogdell, R. J. 184
 Cohen, P. 227
 Collett, R. A. 132
 Collins, P. B. 53
 Coughlan, M. P. 18
 Cross, A. J. 145
- Dain, A. R. 159
 Danielsson, B. 11
 Davey, J. M. 213
 Davey, M. J. 154
 Davies, M. 88
 Davies, M. R. 174
 Davis, A. 147
 Dawson, A. P. 216
 Díaz-Gil, J. 113
 Dodgson, K. S. 162
- Donnellan, J. F. 136
 Downing, S. J. 152
 Drozd, J. W. 79
 D'Souza, M. P. 210
 Duggan, P. F. 47, 49
- Ebringer, A. 188
 Eggert, F. M. 193, 194
 Eisenthal, R. 13
 Elsdén, J. 213
 England, R. 13
 Engstrom, L. 227
- Farber, E. 32
 Ferguson, S. J. 176, 219
 Folke, M. 204
 Fottrell, P. F. 57
 Fry, J. R. 117, 119
 Fulton, D. V. 216
- Gacesa, P. 13, 162
 Gadian, D. G. 176
 Gammeltoft, S. 204
 Gibbard, S. 127
 Gómez, J. C. 148
 Goñi, F. M. 148, 150
 Gorban, A. M. S. 228
 Gosálvez, M. 113, 191
 Gosling, J. P. 57
 Gray, C. J. 5
 Griffiths, E. C. 74, 76
 Gronert, G. A. 44
 Gronow, M. 196
 Grover, S. 28
 Gurtubay, I. G. 148, 150
 Gutiérrez-Arranz, A. 150
 Gutweniger, H. 156
 Gwynn, J. 117
- Hackett, T. J. 21
 Hardie, D. G. 228
 Harrington, M. G. 42
 Harris, R. 136
 Hayes, D. J. 59
 Head, L. P. 115
 Headon, D. R. 41
 Heaton, F. W. 207
 Hedén, C.-G. 94
 Heffron, J. J. A. 44
 Henderson, P. J. F. 224
 Hopkinson, C. R. N. 76
 Hue, L. 99, 163
 Hunt, J. 162
- Hunt, T. 229
 Hurley, M. P. 72
- Ingebritsen, T. S. 228
 Ingledew, W. J. 166
- Jackson, C. G. 224
 Jeffcoate, S. L. 74, 76
 Johansson, G. 1
 Johnson, A. H. 53
 Johnson, D. B. 7, 18, 21
 Johnston, I. 69
 Joly, J.-G. 32
 Jones, C. W. 80
 Jones, O. T. G. 187
- Keevil, C. W. 179
 Kell, D. B. 176
 Kelly, D. P. 91
 Kelly, J. A. 74, 76
 Kerwin, R. W. 140
 Kierstan, M. 21
 Kristensen, L. Ø. 204
 Kula, M.-R. 1
- Land, J. M. 231
 Leader, D. 229
 Leese, H. J. 152
 Leoutsakos, A. 213
 Lindsay, J. G. 184, 210
 Linnett, P. E. 224
 Loizaga, B. 148
 Lomath, A. W. 5
 Lubet, R. A. 122
- Macarulla, J. M. 148
 MacDonald, W. 184
 Manning, J. M. 42
 Marshall, R. D. 170, 174
 Mason, J. R. 85
 Mattaralla, N. 66
 Matthews, H. 229
 Mattiasson, B. 11
 McArdle, H. 69
 McDermott, B. J. 65
 McGann, T. C. A. 51
 McGrath, A. 42
 Meek, F. 213
 Meredith, P. A. 37, 39
 Milicua, J. C. G. 150
 Minchin, M. C. W. 139
 Montecucco, C. 156
 Moore, M. R. 37, 39

- Morgan, P. 57
 Mosbach, K. 11
 Murphy, R. F. 65
 Murray, R. K. 32

 Narayanan, R. 42
 Neijssel, O. M. 82
 Netrusov, A. I. 182
 Nimmo, H. 229

 O'Callaghan, A. 47
 O'Connor, M. L. 21
 O'Cuinn, G. 59
 O'Donovan, D. J. 35
 O'Halloran, B. 41
 Olavesen, A. H. 162
 O'Neill, B. B. 35
 Owen, F. 145

 Palmer, J. M. 246
 Payne, K. J. 154
 Phelan, J. J. 59
 Poat, J. A. 147
 Prough, R. A. 122
 Pycock, C. J. 140

 Reid, G. P. 184
 Reilly, C. 202
 Reynolds, G. P. 143
 Richards, R. J. 162

 Richardson, T. 66
 Riederer, P. 143
 Robb, D. A. 131
 Robinson, D. 154
 Rudland, P. S. 115
 Ryan, J. P. 63
 Ryan, M. 57

 Sandler, M. 143
 Saraste, M. 166
 Sargent, N. S. E. 129
 Sayers, T. 213
 Schoental, R. 127
 Sayers, T. 213
 Segal, A. W. 187
 Selwyn, M. J. 216
 Sestoft, L. 204
 Selwyn, M. J. 216
 Shannon, M. F. 72
 Sharma, R. N. 32
 Sherratt, H. S. A. 99,
 163
 Somerville, H. J. 85
 Sorgato, M. C. 219
 Southon, S. 207
 Suen, M. W. M. 53
 Suh, N. N. 188

 Tait, G. H. 199
 Tempest, D. W. 82

 Thackrah, T. M. 196
 Thorpe, R. 154
 Trevan, M. D. 28
 Tritschler, C. 42
 Tucker, E. M. 159

 Ungkitchanukit, A. 132
 Upshall, D. G. 129

 Vakili, B. 168
 Van den Berg, H. W. 65
 Van Hoof, F. 163
 Verwilghen, R. L. 201
 Vivero, C. 191

 Warburton, M. J. 115
 Whish, W. 13
 White, N. 74
 Wiebkin, P. 119
 Wiehe, P. C. 53
 Winder, F. G. 23, 26
 Wisdom, G. B. 55
 Wiseman, A. 124
 Woodruff, G. N. 147
 Woods, L. F. J. 124

 Young, J. D. 159

 Zaman, Z. 201