

The BIOCHEMICAL JOURNAL

B London: The Biochemical Society © 1989

Volume 257, No. 3

1 February 1989

Editorial Board

Chairman

A. J. Turner (*Leeds*)

Deputy Chairmen

P. J. England (*Welwyn*)

E. D. Saggerson (*London*)

W. H. Evans (*London*)

C. Greenwood (*Norwich*)

H. G. Nimmo (*Glasgow*)

Editorial Manager

A. S. Beedle

G. Allen (*Beckenham*)

T. ap Rees (*Cambridge*)

T. Berg (*Oslo*)

B. Burchell (*Dundee*)

R. J. Cherry (*Colchester*)

G. M. W. Cook (*Cambridge*)

P. Davies (*Rahway*)

H. R. de Jonge (*Rotterdam*)

J. F. Dice (*Boston*)

A. H. Drummond (*Oxford*)

G. H. Elder (*Cardiff*)

J. Feeney (*London*)

M. Fehlmann (*Nice*)

S. J. Ferguson (*Oxford*)

R. B. Freedman (*Canterbury*)

G. F. Gibbons (*Oxford*)

J. P. Goddard (*Glasgow*)

J. R. Griffiths (*London*)

L. Hall (*Bristol*)

T. E. Hardingham (*London*)

S. J. Higgins (*Leeds*)

H. Holmsen (*Bergen*)

R. F. Irvine (*Cambridge*)

M. A. Kerr (*Dundee*)

U. Lindahl (*Uppsala*)

B. Mannervik (*Uppsala*)

J. D. McGivan (*Bristol*)

V. M. Pain (*Brighton*)

A. E. Pegg (*Hershey*)

N. C. Price (*Stirling*)

C. G. Proud (*Bristol*)

H. Prydz (*Oslo*)

P. J. Reeds (*Houston*)

S. P. Robins (*Aberdeen*)

G. G. Rousseau (*Bruxelles*)

K. Siddle (*Cambridge*)

H. Sies (*Düsseldorf*)

R. B. Sim (*Oxford*)

B. E. Smith (*Brighton*)

K. Snell (*Guildford*)

P. G. Strange (*Canterbury*)

A. M. Tartakoff (*Cleveland*)

K. F. Tipton (*Dublin*)

L. M. G. van Golde (*Utrecht*)

M. Wallis (*Brighton*)

D. A. Walsh (*Davis*)

C. W. Wharton (*Birmingham*)

V. A. Zammit (*Ayr*)

-
- The Biochemical Journal is published and distributed by the Biochemical Society, and appears twice monthly.
 - Editorial and Publishing Offices: The Biochemical Journal, 7 Warwick Court, London WC1R 5DP, U.K.
 - Subscriptions Department: The Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester CO2 8HP, Essex, U.K.
 - All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of the copyright owner.
 - Copies of articles in this journal may be made in the U.S.A. for personal or internal use, or for the personal or internal use of specific clients, on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center Inc. (P.O. Box 765, Schenectady, New York 12301, U.S.A.) for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. The Copyright Clearance Center code for this journal is 0264-6021/89/\$02.00 + 0.00.
 - Second-class postage paid at Rahway, NJ, U.S.A.
 - U.S. Postmaster: send address changes to The Biochemical Journal, c/o Mercury Airfreight International Ltd., 2323 Randolph Avenue, Avenel, NJ 07001, U.S.A. (U.S. mailing agent).

Authors

The *Biochemical Journal* publishes 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, confirmatory or inconclusive work will not be published.

Papers are accepted from non-members and members of the Biochemical Society. Prospective authors should note that the *Biochemical Journal* offers rapid publication and makes no manuscript handling charges, no page charges and no charges for plates (except colour). Fifty reprints are provided free of charge; further copies are available at modest cost.

The paragraphs below are a summarized version of information provided in the Biochemical Society's *Policy of the Journal and Instructions to Authors* [*Biochem. J.* (1989) 257, 1-21]. Copies are available free of charge from the Editorial Office.

The following types of submission are considered by the Editorial Board.

1. **Full-length Papers** (normally eight printed pages maximum)
2. **Rapid Papers** (four printed pages maximum)
3. **Letters** (two printed pages maximum)
4. **Reviews** (usually solicited)

Full-length Papers and Rapid Papers

Full-length Papers should not normally exceed eight printed pages, including figures and tables. Longer papers may be acceptable if their content justifies their length, but authors should remember that short papers are generally published with the least delay.

All papers that can be accommodated in four pages of the Journal will be treated as **Rapid Papers**. They receive priority treatment and it is aimed for their publication to be within 3 months of receipt. However, the criteria of reviewing and the appearance of Rapid Papers in the Journal are identical with those of Full-

length Papers. In order to achieve the accelerated schedule, reviewers are asked to give priority to the paper and proofs of accepted Rapid Papers are not supplied to authors. In addition, Rapid Papers that do not contain half-tone figures may be submitted by FAX to the number below. In this case only one copy of the article is required, and acknowledgement of receipt and the review decision will be returned to the author by FAX. Refer to the current *Instructions to Authors* for details of this procedure.

Papers submitted for publication should be addressed to the Editorial Manager, The Biochemical Journal, 7 Warwick Court, London WC1R 5DP, U.K. (telephone 01-405 4918; FAX 01-831 1853; from overseas the international code for the U.K. is +44 and the initial 0 should be omitted). Three copies of the typescript should be submitted. The typescript should bear the name, address and telephone number (and FAX number if possible) of the person to whom correspondence (including proofs) should be sent. An additional copy of the synopsis should be enclosed. The top copy should be accompanied by the original artwork; photocopies of line drawings are acceptable for the other two copies, but glossy prints (**not photocopies**) of all the halftone figures must be provided.

It is the Journal's policy that fragmentation of reports of research should be avoided and that it will not publish material that has been wholly or largely published elsewhere, even as a preliminary communication or in unrefereed symposium proceedings. In order that the reviewers can assess these problems, authors should enclose copies (in duplicate) of relevant preceding published papers, especially if these did not appear in the *Biochemical Journal*. In addition, copies of the authors' relevant work 'in press' or under editorial consideration in other journals should be included. Failure to do this may lead to delay in reviewing.

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. Typescripts should be in double-spaced typing throughout (including the references and legends of tables and figures) on sheets of uniform size (preferably ISO A4) with wide margins. Output from computer printers must be of 'near letter' quality.

Either the Harvard system or the numerical system may be used for citation of references.

A reference to 'unpublished work' should be accompanied by the names of all concerned; a reference to a 'personal communication' must be supported by written permission for the quotation from the person or persons concerned; both these types of citation are permitted in the text only, not in the list of references.

Full-length Papers should not normally exceed 7500 words in length, and Rapid Papers must not exceed 3500 words, each inclusive of title, synopsis and references. Authors must assess what proportion of a page will be occupied by insertions such as tables, figures and schemes and reduce the number of text words accordingly at the rate of 1000 words per full page of the Journal.

Authors should state under which section of the contents list they wish their paper to appear:

Proteins
Enzymes
Carbohydrates
Lipids
Gene structure and expression
Synthesis and degradation of macromolecules
Intermediary metabolism and metabolic control
Bioenergetics and transport
Membranes and receptors
Cell structure and function
Methods

BJ Letters and Reviews

BJ Letters are intended to provide an opportunity to discuss, criticize or expand particular points made in published work, or to present a new hypothesis. They should not be comments on general aspects of the biochemical world, nor should they be used as an alternative to a Rapid Paper. If a letter is polemical in nature, a reply may be solicited from other interested parties before its publication. Letters must not exceed 1500 words, which is approximately the equivalent of two printed pages; one figure, table or scheme may be included. BJ Letters may also be submitted by FAX (see above).

Reviews will usually be solicited, although unsolicited reviews will be considered for publication; however, prospective writers of reviews should first consult the Chairman of the Editorial Board, and should enclose a short (one typed page) synopsis of the area they propose to cover.

Subscribers

The *Biochemical Journal* is published and distributed by the Biochemical Society. It is published twice monthly; in 1989 eight volumes (257-264) of three parts each will appear. An Annual Index is supplied to all subscribers as soon as possible after publication of the year's volumes.

Subscription rates

For non-members of the Biochemical Society the subscription rates for 1989 are shown below.

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

Terms are cash with order (£ sterling for subscribers other than in North America or U.S. \$ equivalent at current rate of exchange) or against proforma invoice. Orders and subscriptions should be sent to the address below, or through your usual agent.

	U.K. & Overseas	U.S.A. Canada & Mexico	Japan
1 year (8 volumes)	£605	U.S.\$1195	£700
Per volume	£76	U.S.\$150	£88
Per part	£26	U.S.\$50	£30

The subscription rates for North America and Japan include elements for airfreight and Accelerated Surface Post respectively. Subscribers may opt for air-mail delivery at additional cost; details are available on application.

Advertisements

Applications for advertising space should be sent to the Biochemical Society Advertising Department, Jackson & Rudd Associates, Oldbourne House, 46-47 Chancery Lane, London WC2A 1JB, U.K. (telephone 01-405 3611 or 2; FAX 01-831 8030). Copy is required eight weeks before publication date. Rate cards are available on request.

Microfiche

Volumes 102-256 of the *Biochemical Journal* are available on microfiche. Further details are available from the address below.

Subscription Department

The Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester CO2 8HP, Essex, U.K. (telephone 0206-46351; FAX 0206-549331).

Librarians

Preliminary pages: The preliminary pages in each issue have been arranged and paginated so

that they can be assembled to give a set of volume preliminary pages; pages (i) and (ii) are the volume title pages supplied with part 1 of each volume, pages (iii)-(vi), (vii)-(x) and

(xi)-(xiv) are the contents pages from parts 1, 2 and 3 respectively, and pages (xv) and (xvi) are the volume author index supplied in part 3 of each volume.

INDEX OF AUTHORS

	PAGE		PAGE		PAGE		PAGE
Adams, J. C.	905	Ebner, S.	934	Lowe, D. J.	789	Ros, M.	737
Alcolea, J. M.	831	Falasca, A. I.	801	Magnusson, S.	651	Sánchez, A.	831
Allred, J. B.	925	Feinstein, M. B.	715	Malatesta, F.	783	Sánchez-Corral, P.	831
Anderson, S. E.	673	Ferré, P.	934	Malbon, C. C.	737	Sarkar, B.	745
Antón, L. C.	831	Freedman, R. B.	657	Marqués, G.	831	Sarti, P.	783
Antonini, G.	783	Garofano, L.	801	Marston, S. B.	839	Schaerer, E.	759
Arlaud, G. J.	885	Geelen, M. J. H.	645	Martin, B. J.	691	Sha'afi, R. I.	633
Aude, C. A.	885	Gershengorn, M. C.	639	Martin-Sanz, P.	795	Shaw, P. H.	685
Bakkeren, H.	699	Girard, J.	934	McCall, M. N.	845	Shriver, B. J.	925
Barbieri, L.	801	Golsteyn, R. M.	809, 817	McCann, P. P.	769	Siafaka-Kapadai, A.	823
Barka, T.	685	Gregory, P.	691	McGary, C. T.	875	Smyth, G. E.	859
Baydoun, E. A.-H.	853	Grinstein, S.	893	Mertens, K.	679	Solari, R.	759
Berg, T.	651	Guicciardi, A.	801	Miller, S. P.	801	Souter, M.-J.	673
Bergström, N. H. J.	789	Gullick, W. J.	905	Mills, G. B.	893	Sperti, S.	723
Bitonti, A. J.	769	Hamed, K.	783	Minakami, S.	751	Stirewalt, W. S.	691
Bolognesi, A.	801	Hanahan, D. J.	823	Minghetti, A.	801	Stirpe, F.	801
Boscá, L.	795	Hassinen, I. E.	913	Molski, T. F. P.	633	Sumimoto, H.	751
Bouillaud, F.	665	Havinga, R.	699	Montanaro, L.	723	Sundqvist, K. E.	913
Braiterman, L. T.	759	Hawkins, H. C.	657	Nagelkerke, J. F.	699	Takeno, T.	921
Brett, C. T.	853	Hider, R. C.	783	Nasmith, P. E.	893	Takeshige, K.	751
Brigotti, M.	723	Hiltunen, J. K.	913	Northup, J. K.	737	Tallichet, C.	759
Brodniewicz-Proba, T.	679	Hori, Y.	751	Ochi, M.	711	Tao, W.	633
Brodsky, F. M.	775	Hothi, S. K.	705	Olson, M. S.	823	Thorneley, R. N. F.	789
Brunori, M.	783	Houweling, M.	645	Onishi, S.	711	Tijburg, L. B. M.	645
Burnol, A.-F.	934	Hubbard, A. L.	759	O'Rourke, F.	715	Titheradge, M. A.	705
Bush, T. L.	769	Imai, T.	711	Orsi, B. A.	859	Vallone, B.	783
Cascales, M.	795	Isobe, K.	711	Osaki, M.	751	Van Berkel, T. J. C.	699
Casteilla, L.	665	Itoh, S.	711	Pairault, J.	917	Van Golde, L. M. G.	645
Cenini, P.	801	Khomutov, A. R.	929	Parcej, D. N.	899	Van Mourik, J. A.	679
Champigny, O.	665	Khomutov, R. M.	929	Parham, P.	775	Verbeet, M. Ph.	679
Chao, W.	823	Kraehenbuhl, J.-P.	759	Paver, J. L.	657	Villaschi, S.	783
Chesne, S.	865	Kuhn, N. J.	933	Periasamy, M.	691	Vivanco, F.	831
Cole, G. T.	729	Kuipers, F.	699	Persson, L.	929	Vonk, R. J.	699
Colomb, M. G.	865, 885	Kunikata, T.	711	Pritchard, K.	839	Wade, R. H.	865
Crabtree, B.	673	Lacroix, M. B.	885	Quignard-Boulangé, A.	917	Waisman, D. M.	809, 817
Cragoe, E. J., Jr.	751	Lappi, D.	801	Raja, R. H.	875	Waldron, K. W.	853
Cubitt, A. B.	639	Lau, S.	745	Rambelli, F.	723	Weigel, P. H.	875
Dolly, J. O.	899	Laussac, J.-P.	745	Randall, D. P.	705	Yeaman, S. J.	625
Drickamer, K.	775	Lavau, M.	917	Ricquier, D.	665	Yuan, L.	729
Dugail, I.	917	Le Liepvre, X.	917	Robelin, J.	665	Zamboni, M.	723
Eady, R. E.	789	Leyte, A.	679	Roman-Lopez, C. R.	925	Zavoico, G. B.	715
Easterbrook-Smith, S. B.	845	Li, S. S.-L.	921			Zohair, A.	865

VOLUME AUTHOR INDEX

Volume 257, 1989

	PAGE		PAGE		PAGE		PAGE
Achyuthan, K. E.	331	Cheung, C.H.	251	Grinstein, S.	893	Lacroix, M. B.	885
Adams, J. C.	905	Church, J. G.	151	Gualde, N.	313	Lagarde, M.	313, 389
Ailhaud, G.	389, 399	Cohen, N. S.	251	Guest, P. C.	431	Lappi, D.	801
Akamatu, N.	407	Cole, G. T.	729	Guicciardi, A.	801	Lau, K.-H. W.	23
Akino, T.	291	Collings, J.	51	Gullick, W. J.	905	Lau, S.	745
Alcolea, J. M.	831	Collins, M. E.	310	Guthenberg, C.	215	Laussac, J.-P.	745
Alderman, J. A.	615	Colman, N.	277	Hack, C. E.	477	Lavau, M.	917
Alefunder, P. R.	529	Colomb, M. G.	865, 885	Haigh, J. R.	499	Le Liepvre, X.	917
Allred, J. B.	925	Cooper, D. M. F.	413	Hamed, K.	783	Lee, V. G.	73
Anderson, S. E.	673	Cornish-Bowden, A.	339	Hanahan, D. J.	823	Léger, D.	231
Antón, L. C.	831	Cotton, R. G. H.	383	Hardy, D. M.	447	Lehikoinen, P. K.	355
Antonia, F. A.	611	Cox, A. J.	101	Harrison, L. C.	101	Lei, K.-J.	509
Antonini, G.	783	Crabtree, B.	673	Hartweg, D.	117	Leighton, B.	369
Anvari, N.	143	Cragoe, E. J., Jr.	751	Harvey, H. J.	95	Leiser, M.	623
Arlaud, G. J.	885	Crompton, I. E.	305	Hassinen, I. E.	913	Lerch, K.	289
Asselberghs, S.	221	Cubitt, A. B.	639	Hatae, T.	43	Leyte, A.	679
Aszódi, A.	621	Dale, G. L.	37	Havinga, R.	699	Li, S. S.-L.	921
Aude, C. A.	885	D'Andrea, G.	301	Hawkins, H. C.	657	Liao, S.	293
Bakkeren, H.	699	Davies, M. J.	603	Hedrick, J. L.	447	Lieber, C. S.	615
Baldwin, S. A.	529	Decottignies, J.-P.	231	Helmke, S. M.	413	Little, D. K.	73
Barbieri, L.	801	de Graeff-Meeder, E. R.	477	Herbert, V.	277	Littlewood, G. M.	361
Barelli, H.	549	De Laat, S. W.	375	Hernandez-Arana, A.	183	Liu, C.-M.	509
Barka, T.	685	De Meester, F.	245	Hider, R. C.	289, 783	Lowe, D. J.	789
Barritt, G. J.	591	de Wet, W. J.	439	Higgins, P. J.	173	Lugtenburg, J.	425
Basu, S.	65	Dijkstra, M.	87	Hiipakka, R. A.	293	Magnusson, S.	651
Baydoun, E. A.-H.	853	Dimitriadis, G. D.	369	Hiltunen, J. K.	913	Malatesta, F.	783
Baylink, D. J.	23	Dive, G.	245	Hirsh, J.	143	Maibon, C. C.	737
Beggs, M.	271	Dolly, J. O.	899	Hoekzema, R.	477	Mandal, C.	65
Berg, T.	651	Drickamer, K.	775	Hofsteenge, J.	191	Mannaerts, G. P.	221
Bergström, N. H. J.	789	Dugail, I.	917	Hooper, N. M.	361	Mannervik, B.	215
Bettuzzi, S.	293	Duggleby, R. G.	57, 419	Hori, Y.	751	Mansfield, K. E.	599
Bitonti, A. J.	769	Duine, J. A.	87	Hothi, S. K.	705	Marchington, D. R.	487
Blajchman, M. A.	143	Eady, R. R.	789	Houweling, M.	645	Margolis, J. W.	265
Blomhoff, R.	239	Easterbrook-Smith, S. B.	845	Hubbard, A. L.	759	Marqués, G.	831
Boelens, R.	197	Ebner, S.	934	Huckerby, T. N.	347	Marston, S. B.	839
Bolognesi, A.	801	Edwards, R. H. T.	207	Hughes, B. P.	591	Martin, B. J.	691
Bosca, L.	795	Eggermont, J. A.	117	Hunt, J. T.	73	Martin-Sanz, P.	795
Bouillaud, F.	665	Erllichman, J.	623	Hutton, J. C.	431	Mary, A.	331
Braiterman, L. T.	759	Esmon, C. T.	143	Ikebuchi, H.	165	Mason, R. W.	125, 493
Brand, M. D.	285	Eyssen, H. J.	221	Imai, T.	711	Matagne, A.	245
Brazeau, G. A.	619	Fain, J. N.	455	Irvine, R. F.	297	Mayo, K. H.	197
Brett, C. T.	853	Falasca, A. I.	801	Ishikawa, Y.	109	McCall, M. N.	845
Briedis, A. V.	541	Farley, J. R.	23	Isobe, K.	711	McCann, P. P.	769
Brigotti, M.	723	Feild, J.	321	Itoh, S.	711	McGary, C. T.	875
Brocklehurst, K.	309	Feinstein, M. B.	715	Jackson, M. J.	207, 621	McKeon, J.	439
Brodniewicz-Proba, T.	679	Fenton, J. W., II	143	Jans, A. W. H.	425	McNamee, M. G.	109
Brodsky, F. M.	775	Ferguson, B. Q.	321	Jayatilke, E.	277	Mertens, K.	679
Broom, M. F.	51	Ferré, P.	934	Jennings, I. G.	383	Miller, S. P.	801
Brouwer, M. C.	477	Feyen, A.	375	Johnston, J. D.	285	Mills, G. B.	151, 893
Brunette, M. G.	259	Fleischer, N.	623	Jonas, H. A.	101	Minakami, S.	751
Brunmark, A.	561	Floyd, D. M.	73	Jones, A. E.	487	Minghetti, A.	801
Brunori, M.	783	Frank, J., Jzn.	87	Joseph, L. J.	493	Modi, G. J.	143
Buchanan, M. R.	143	Freedman, R. B.	657	Kanmura, Y.	117	Molski, T. F. P.	633
Buffinton, G. D.	561	Frère, J.-M.	245	Kaptein, R.	197	Montanaro, L.	723
Buick, R. N.	151	Friedrich, P.	621	Katagiri, Y. U.	43	Montreuil, J.	231
Buitenhuis, L.	425	Fryer, P. R.	79	Kato, S.	615	Moreland, S.	73
Burnol, A.-F.	934	Fung, H.-L.	619	Keleti, T.	187	Moreton, K.	301
Bush, T. L.	769	Gaillard, D.	389, 399	Kelly, R. A.	131	Morris, G. E.	461
Cadenas, E.	561	Garofano, L.	801	Kerbey, A. L.	487	Myers, J. C.	439
Campion, B.	231	Gay, R.	439	Khomutov, A. R.	929	Nagamatsu, K.	165
Cárdenas, M. L.	339	Gay, S.	439	Khomutov, R. M.	929	Nagata, Y.	291
Carlander, B.	239	Gedamu, L.	555	Kijimoto-Ochiai, S.	43	Nagelkerke, J. F.	699
Cascales, M.	795	Geelen, M. J. H.	645	Kitson, T. M.	573, 579, 585	Nagengast, F. M.	471
Casteels, M.	221	Gershengorn, M. C.	639	Konno, R.	291	Nahorski, S. R.	297
Casteels, R.	117	Giardina, M. G.	487	Koornneef, I.	375	Nash, J. C.	57
Casteilla, L.	665	Gietzen, K.	117	Kowlessur, D.	309	Nasmith, P. E.	893
Castelfranco, P. A.	599	Gilna, P.	293	Kraehenbuhl, J.-P.	759	Négre, R.	389, 399
Cavalli, R. C.	197	Girard, J.	934	Krenitsky, T. A.	355	Newsholme, E. A.	369
Cenini, P.	801	Golsteyn, R. M.	809, 817	Kruijer, W.	375	Nieduszynski, I. A.	347
Chadio, S. E.	611	Goodenough, P. W.	310	Kruse, C.	321	Northup, J. K.	737
Chadwick, V. S.	51	Gow, A.	535	Kuhn, N. J.	933	Norrum, K. R.	239
Champigny, O.	665	Gray, P. J.	419	Kuipers, F.	699	Ochi, M.	711
Chao, W.	823	Greenberg, C. S.	331	Kunikata, T.	711	O'Driscoll, M.	309
Chapman, H. A., Jr.	493	Gregory, P.	691			Ofosu, F. A.	143
Checler, F.	549	Greig, R. G.	321			Okeyama, N.	407
Chen, P.	493					Okuyama, H.	43
Chesne, S.	865						

VOLUME AUTHOR INDEX (continued)

	PAGE		PAGE		PAGE		PAGE
Öllinger, K.	561	Randle, P. J.	271, 487	Stirewalt, W. S.	691	Venis, M. A.	95
Olson, M. S.	823	Reers, M.	131	Stirpe, F.	801	Verbeet, M. Ph.	679
Olsson, P.-E.	555	Reilly, J. J., Jr.	493	Stone, S. R.	191	Verbist, J.	117
Onishi, S.	711	Rhodes, C. J.	431	Strous, G. J.	159	Verheyden, K.	221
Oratore, A.	301	Ricquier, D.	665	Strupish, J.	297	Vértessy, B.	187
Orosz, F.	187	Rieman, D.	321	Sugden, P. H.	519	Villaschi, S.	783
O'Rourke, F.	715	Rigaud, M.	313	Sukhatme, V. P.	493	Vincent, J.-P.	549
Orsi, B. A.	859	Robelin, J.	665	Sumimoto, H.	751	Vivanco, F.	831
Osaki, M.	751	Roelofs, H. M. J.	471	Sumner, I. G.	310	Vonk, R. J.	699
Óvádi, J.	187	Rojo-Dominguez, A.	183	Sundqvist, K. E.	913		
		Roman-Lopez, C. R.	925	Suzuki, K.	165	Wade, R. H.	865
		Ros, M.	737	Suzuki, T.	37	Wagner, B. J.	265
Pairault, J.	917	Rosenberg, M.	321			Waisman, D. M.	809, 817
Pallardo, F. V.	607	Rovelli, G.	191	Tabiowo, A.	79	Waldron, K. W.	853
Parcej, D. N.	899	Ryan, M. P.	173	Tahir, M. K.	215	Waley, S. G.	305
Parham, P.	775			Takeno, T.	921	Walker, C. J.	599
Parmentier, G.	221	Sánchez, A.	831	Takeshige, K.	751	Wallace, A.	191
Parniak, M. A.	383	Sánchez-Corral, P.	831	Tallichet, C.	759	Wathne, K.-O.	239
Parry-Billings, M.	369	Sanderson, P. N.	347	Tao, W.	633	Weigel, P. H.	875
Paver, J. L.	657	Sarkar, B.	745	Tate, W. P.	51	Welch, G. R.	187
Perham, R. N.	529	Sarti, P.	783	Templeton, W.	309	West, D.	369
Periasamy, M.	691	Schaerer, E.	759	Terao, T.	165	Wharton, C. W.	309
Persson, L.	929	Schepers, L.	221	Teshima, R.	165	Wikstrom, P.	125
Peters, A. R.	197	Schoots, A. F. M.	447	Thomas, E. W.	309	Wilcox, D.	125
Peters, W. H. M.	471	Sha'afi, R. I.	633	Thomas, T. C.	109	Willcock, A. L.	297
Phillips, I. R.	309	Shaw, E. N.	125	Thompson, J. R.	281	Williams, J.	301
Phillips, J. H.	499	Shaw, J. M.	271	Thorneley, R. N. F.	789	Williamson, D. H.	607
Phoenix, J.	207	Shaw, P. H.	685	Tijburg, L. B. M.	645	Wilson, B. W.	109
Pickersgill, R. W.	310	Shaw, S.	277	Titheradge, M. A.	705	Winkel, C.	425
Pihlajaniemi, T.	439	Sherriff, R. M.	51	Tompa, P.	187	Wu, G.	281
Pittner, R. A.	455	Shima, S.	407	Topham, C. M.	309	Wuytack, F.	117
Pope, F. M.	79	Short, N. J.	529	Trewavas, A. J.	95	Yang, D.	509
Poste, G.	321	Shriver, B. J.	925	Turner, A. J.	361	Yasumura, Y.	291
Preedy, V. R.	519	Siafaka-Kapadai, A.	823			Yeaman, S. J.	625
Pritchard, K.	839	Sinnott, M. L.	355	Vallone, B.	783	Yee, R.	493
Pritchard, M. L.	321	Smith, K. M.	599	Van Berkel, T. J. C.	699	Young, P. R.	541
Prockop, D. J.	439	Smith, L. M.	143	Van den Eijnden-Van Raaij, A. J. M.	375	Yuan, L.	729
Quignard-Boulangé, A.	917	Smith, R.	535	Van Golde, L. M. G.	645	Zafarullah, M.	555
		Smith, T. W.	131	van Helden, H. P. T.	477	Zamboni, M.	723
Raeymaekers, L.	117	Smyth, G. E.	859	Van Kerkhof, P.	159	Zavoico, G. B.	715
Rajiman, L.	251	Solari, R.	759	Van Mourik, J. A.	679	Zhang, J.-H.	509
Raja, R. H.	875	Solis-Mendiola, S.	183	Van Oostwaard, T. M. J.	375	Zhou, X.-H.	509
Ramachandran, C.	259	Souter, M.-J.	673	van Tongeren, J. H. M.	471	Zohair, A.	865
Rambelli, F.	723	Sperti, S.	723	Van Zoelen, E. J. J.	375	Zubillaga-Luna, R.	183
Randall, D. P.	705	Spik, G.	231				