

The BIOCHEMICAL JOURNAL

B London: The Biochemical Society © 1987

Volume 243, No. 3

1 May 1987

Editorial Board

Chairman

C. I. Pogson (*Beckenham*)

Deputy Chairmen

J. A. Lucy (*London*)

M. D. Houslay (*Glasgow*)

J. E. Kay (*Brighton*)

A. J. Turner (*Leeds*)

P. J. England (*Welwyn*)

J. L. Harwood (*Cardiff*)

E. D. Saggerson (*London*)

Editorial Manager

A. G. J. Evans

Editorial Secretary

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*)

N. Crawford (*London*)

P. Davies (*Rahway*)

J. F. Dice (*Boston*)

A. H. Drummond (*London*)

G. H. Elder (*Cardiff*)

W. H. Evans (*London*)

M. Fehlmann (*Nice*)

S. J. Ferguson (*Oxford*)

R. B. Freedman (*Canterbury*)

G. F. Gibbons (*Oxford*)

J. P. Goddard (*Glasgow*)

C. Greenwood (*Norwich*)

J. R. Griffiths (*London*)

L. Hall (*Bristol*)

T. E. Hardingham (*London*)

F. W. Hemming (*Nottingham*)

P. F. Knowles (*Leeds*)

J. Knudsen (*Odense*)

U. Lindahl (*Uppsala*)

B. Mannervik (*Stockholm*)

J. D. McGivan (*Bristol*)

R. H. Michell (*Birmingham*)

H. G. Nimmo (*Glasgow*)

V. M. Pain (*Brighton*)

A. E. Pegg (*Hershey*)

N. C. Price (*Stirling*)

C. G. Proud (*Bristol*)

H. Prydz (*Oslo*)

P. J. Reeds (*Aberdeen*)

G. C. K. Roberts (*Leicester*)

S. P. Robins (*Aberdeen*)

G. G. Rousseau (*Bruxelles*)

K. Siddle (*Cambridge*)

H. Sies (*Düsseldorf*)

R. B. Sim (*Oxford*)

K. Snell (*Guildford*)

P. G. Strange (*Canterbury*)

A. M. Tartakoff (*Cleveland*)

K. F. Tipton (*Dublin*)

J. E. Walker (*Cambridge*)

M. Wallis (*Brighton*)

D. A. Walsh (*Davis*)

C. W. Wharton (*Birmingham*)

The Editorial Board includes two members nominated by the British Biophysical Society

- 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 0264-6021/87/\$2.00.
- Second-class postage paid at Rahway, NJ, U.S.A.
- U.S. Postmaster: send address changes to *Biochemical Journal*, c/o Mercury Airfreight International Ltd., 10B Englehard Avenue, Avenel, NJ 07001, U.S.A. (U.S. mailing agent).

Authors

The *Biochemical Journal* places emphasis on the prompt publication of **Full-length Papers** (on average about 6 months after receipt), **Rapid Papers** (on average within 3 months of receipt), **Reviews** and **BJ Letters**. It is the Journal's policy 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 be described.

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.* (1987) **241**, 1-24]. Copies are available 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. Indeed, the Board's desire to restrict the length of papers should not lead authors to split their work into two or more shorter papers. For example, a single paper

consisting justifiably of ten printed pages will normally be considered more favourably than two papers each of six pages dealing with the same material. 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 deal with the paper within 48 h and proofs of accepted Rapid Papers are not normally supplied to authors. However, authors are given details of any editing of Rapid Papers at the same time that the typescripts are sent to the printer, with a request that any essential amendments be sent to the Editorial Secretary as soon as possible. The scientific editorial staff in the Editorial Office check the proofs to ensure that they tally exactly with the edited typescripts and make any necessary alterations indicated by the authors.

Papers submitted for publication should be addressed to the Editorial Secretary, The Biochemical Journal, 7 Warwick Court, London WC1R 5DP, U.K. Three copies of the typescript should be submitted. The typescript should bear the name and address 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 (see the Appendix to *Policy of the Journal and Instructions to Authors* for advice on the preparation of figures). 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 helpful if the author encloses copies of relevant preceding papers, especially if these were not published in the *Biochemical Journal*. If the paper submitted refers to a paper 'in the press' in another journal the reviewers will not have access to this material and it is important that the author should include photocopies of the relevant typescript together with documentary evidence that it has been accepted for publication. Any reference to a 'personal communication' must be supported by documentary evidence

from the individual quoted showing that agreement with the quotation is given.

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 with wide margins.

Full-length Papers should not normally exceed 7000 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 insertions (such as tables, figures and schemes) will occupy 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
Nucleic acids and molecular genetics
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.

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.

Subscribers

The *Biochemical Journal* is published and distributed by the Biochemical Society. It is published twice monthly; in 1987 eight volumes (241-248) 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 1987 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)	£520	U.S. \$975	£600
Per volume	£66	U.S. \$125	£76
Per part	£22	U.S. \$44	£26

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 Advertising Department at the Society's London address. Copy is required eight weeks before publication date. Rate cards are available on request.

Microfiche

Volumes 102-240 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.

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
Anderson, S. E.	821	Gahl, W. A.	841	Lim, C. K.	863	Schütze, S.	729
Arab, N.	641	Ghishan, F. K.	641	Lönnroth, I.	789	Seglen, P. O.	655
Atkinson, T.	701	Godfrey, P. P.	815	Lönnroth, P.	789	Shenoy, B. C.	723
		Gordon, P. B.	655			Shimojo, N.	773
Barata, B.	755	Graber, P.	829	Machicao, F.	797	Simona, M. G.	829
Baum, H.	867	Grigg, G. W.	847	MacRae, J. C.	821	Smith, U.	789
Bernardini, I.	841	Grootveld, M.	803, 867	Manne, V.	763	Söling, H.-D.	729
Borthakur, A.	723	Grunnet, N.	625	Margolius, H. S.	773	Specian, R. D.	631
Brautigam, D. L.	747	Gutteridge, J. M. C.	709	Marr, S. A.	821	Staron, R. S.	687, 695
Bray, R. C.	755			Mayfield, R. K.	773	Stevenson, K. J.	661
Bruton, C. J.	701	Halliwell, B.	803, 867	McArdell, J. E. C.	701	Sundqvist, K. E.	853
Buell, G.	829	Häring, H.	797	McQuattie, A.	661		
Burchell, B.	859	Harper, G. S.	841	Moore, B. R.	739	Takuwa, N.	647
Burleigh, B. D.	829	Harwood, J. L.	679	Moorhouse, C. P.	867	Takuwa, Y.	647
		Haslam, R. J.	667	Morgan, H. W.	779	Turner, N.	755
Carrascosa, J. M.	797	Hassinen, I. E.	853	Murphy, W.	667		
Chao, J.	773	Heikkilä, J.	853			van Berkel, T. J. C.	715
Chao, L.	773	Hiltunen, J. K.	853	Nunn, D. L.	809	van Eijk, H. G.	715
Conroy, K.	661	Hume, R.	859			Vind, C.	625
Crabtree, B.	821	Hunding, A.	625	Obermaier, B.	797	Vladutiu, G.	739
		Hurko, O.	841				
Daniel, R. M.	779	Hutchison, D. C. S.	867	Patchett, M. L.	779	Waring, M. J.	847
Danson, M. J.	661	Høyvik, H.	655	Peters, T. J.	863	Wasil, M.	867
Davies, J. I.	789			Pette, D.	687, 695	Watson, S. P.	809, 815
Deistung, J.	755	Kikuchi, K.	641	Polascik, T.	815	White, M. F.	797
Dekker, C. J.	715	Kruijt, J. K.	715			Wieland, O. H.	797
		Kung, H.-F.	763	Ramadoss, C. S.	723	Williams, K. A.	667
Fahim, R. E. F.	631			Rasmussen, H.	647	Wingfield, P. T.	829
Forstner, G. G.	631	Leakey, J. E. A.	859	Richards, R. J.	679		
Forstner, J. F.	631	Le Gall, J.	755	Rose, K.	829		
Fox, K. R.	847	Lewis, R. W.	679	Rotenberg, S. A.	747	Zuurveld, J.	841
Free, S. J.	739	Li, F.	863				

VOLUME AUTHOR INDEX

Volume 243, 1987

	PAGE		PAGE		PAGE		PAGE
Aggerbeck, L. P.	399	Dix, C. J.	373	Hawkins, P. T.	211	Mayfield, R. K.	773
Amyes, S. G. B.	309	Downes, C. P.	211	Heikkilä, J.	853	McAleese, S. M.	301
Anderson, S. E.	821			Heinegård, D.	255	McArdell, J. E. C.	701
Andrenyak, D. M.	525	Edelstein, S.	75	Hemmings, B. A.	413	McQuattie, A.	661
Antonsson, P.	255	Edman, K.	575	Heslop, J. P.	305	Meyer, M. S.	75
Aojula, H. S.	205	Ehrhart, L. A.	137	High, S.	277	Meyer zum Büschenfelde,	
Arab, N.	641	Epstein, P. M.	525, 533	Hiltunen, J. K.	853	K.-H.	189
Armstrong, D. T.	603	Ericson, I.	575	Hirsh, J.	579	Minakami, S.	467
Astbury, L. D.	549	Escartiñ, P.	443	Hofmann, T.	611	Miras Portugal, M. T.	541
Aston, R.	365	Essenberg, R. C.	345	Hotta, Y.	97	Modi, G. J.	579
Atkinson, T.	701			Houslay, M. D.	39	Mooney, C. J.	121
Awasthi, Y. C.	61, 351	Fadigan, A.	419	Hrbolich, J. K.	457	Moore, B. R.	739
Azzi, A.	569	Fagan, J. M.	335	Hruby, V. J.	39	Moorhouse, C. P.	867
		Fahim, R. E. F.	631	Huckerby, T. N.	175	Moraski, S., Jr.	533
Bachmann, M.	189	Farfel, Z.	145, 153	Hume, R.	859	Morgan, H. W.	779
Baker, M. E.	293	Farries, T. C.	507	Hunding, A.	625	Morris, A. J.	211
Barata, B.	755	Fernandez, F.	579	Hurko, O.	841	Morrison, I. E. G.	205
Bardsley, W. G.	329	Fernandez, J. A.	281	Hutchison, C. S.	867	Mukhtar, H.	351
Barnett, L.	431	Ferry, D. R.	127	Hutchison, D. C. S.	219	Müller-Berghaus, G.	105
Barrowcliffe, T. W.	31	Finch, J. T.	507	Hwang, P. L. H.	359	Müller, W. E. G.	189
Baum, H.	219, 867	Fisher, R. A.	493	Høyvik, H.	655	Murphy, G. J.	39
Benito, M.	617	Forstner, G. G.	631			Murphy, M. P.	499
Bernardini, I.	841	Forstner, J. F.	631	Iglesias, R.	281	Murphy, W.	667
Berridge, M. J.	305	Fothergill-Gilmore, L. A.	301	Inoue, H.	97	Møller, J. V.	399
Berrie, C. P.	211	Fox, K. R.	847	Izquierdo, C.	329		
Berthon, B.	391	Free, S. J.	739			Naggert, J.	597
Björk, I.	47	French, F. S.	293	Jans, D. A.	413	Nasrulhaq-Boyce, A.	23
Blackburn, G. M.	301	Frère, J.-M.	561	Jones, O. T. G.	23	Neidle, S.	1
Blajchman, M. A.	579	Friedman, E.	145, 153	Joris, B.	561	Newsholme, E. A.	267
Bolann, B. J.	55	Fry, M.	589	Joseph, D. R.	293	Nieduszynski, I. A.	175
Boneu, B.	579	Fujita, S. C.	97	Jutagir, V.	301	Nishimura, S.	313
Borthakur, A.	723					Nunn, D. L.	809
Brand, M. D.	499	Gadsby, P. M. A.	235, 241	Kageyu, A.	481		
Brautigam, D. L.	747	Gadsky, P. M. A.	225	Kameji, T.	285	Obermaier, B.	797
Bray, R. C.	755	Gahl, W. A.	841	Kemball-Cook, G.	31	Oofu, F. A.	579
Brenner, S.	431	Galleni, M.	561	Kenny, A. J.	183	Oldberg, Å.	255
Briseno, D. L.	493	García-Cañero, R.	443	Kiehm, D.	603	Olson, M. S.	493
Brittain, T.	379	García-Segura, J. M.	443	Kikuchi, K.	641	O'Neil, J. D. J.	611
Bruton, C. J.	701	Gavilanes, J. G.	443	Kilár, F.	449	Opsahl, W. P.	137
Buchanan, M.	579	Ghazi, A.	399	Kilgour, E.	69		
Buckley, M. G.	437	Ghishan, F. K.	641	Kruijt, J. K.	715	Paget, T. A.	589
Buell, G.	829	Gibbons, G. F.	487	Kung, H.-F.	763	Pappano, A. J.	525
Burchell, B.	859	Gibson, B. W.	113	Kurosky, A.	61	Patanjali, S. R.	79
Burguillo, F. J.	329	Giovannini, M. G.	113			Patchett, M. L.	779
Burleigh, B. D.	829	Glossmann, H.	127	Lachmann, P. J.	507	Pearce, R. D.	603
Buxton, D. B.	493	Godfrey, C.	225, 235, 241	Lakatos, S.	449	Pearl, L. H.	1
		Godfrey, P. P.	815	Larsson, L.-J.	47	Pegg, A. E.	285
Callahan, J. W.	603	Goldberg, A. L.	335	Leakey, J. E. A.	859	Pendlebury, J. E.	121
Campbell, C. J.	121	Goll, A.	127	Le Gall, J.	755	Peters, T. J.	621, 863
Carpenter, C. A.	289	Gordon, P. B.	655	Leger, J. J.	425	Pette, D.	687, 695
Carrascosa, J. M.	797	Graber, P.	829	le Maire, M.	399	Pfeifer, K.	189
Cashman, D. P.	597	Grantham, B. D.	261	Leppik, R. A.	15	Poggioli, J.	391
Caterson, I. D.	549	Green, I. C.	365	Lewis, R. W.	679	Polascik, T.	815
Chao, J.	773	Greenwood, C.	225, 235, 241	Li, F.	621, 863	Pons, F.	425
Chao, L.	773	Griffiths, W. T.	23	Lidor, C.	75	Poulter, L.	113
Charlton, P. A.	121	Grigg, G. W.	847	Lim, C. K.	621, 863	Preissner, K. T.	105
Chrétien, M.	195	Grinham, C. J.	121	Limeback, H.	385	Pullinger, C. R.	487
Claret, M.	391	Grootveld, M.	803, 867	Lindahl, P.	47		
Clarke, J. T. R.	603	Grunnet, N.	87, 625	Lindahl, U.	31	Quistorff, B.	87
Coddington, A.	225, 235, 241	Gutteridge, J. M. C.	709	Lipmann, F.	555		
Conroy, K.	661			Little, P. B.	603	Rachubinski, R. A.	249
Cooke, B. A.	373	Habberfield, A. D.	373	Liu, M.-C.	555	Ramadoss, C. S.	723
Cooney, G. J.	549	Hachisu, R.	533	Lloyd, D.	589	Rasmussen, H.	647
Crabtree, B.	821	Hackney, D. D.	159	Lönnroth, I.	789	Rath, E. A.	437
Creadon, G.	351	Hallén-Sandgren, C.	47	Lönnroth, P.	789	Renard, D.	391
Culty, M.	457	Halliwell, B.	219, 803, 867	Lorenzo, M.	617	Resink, T. J.	413
		Hanahan, D. J.	493	Lund, P.	273	Richards, R. J.	679
Dailey, H. A.	419	Hanski, E.	145, 153			Roberts, A. N.	431
Damadei, A.	425	Hansson, P.	267	Machicao, F.	797	Rochemont, J.	195
Daniel, R. M.	779	Håring, H.	797	MacRae, J. C.	821	Roncero, C.	617
Danson, M. J.	661	Harley, C. B.	249	Mahoney, C. W.	569	Rose, K.	829
Das, M.	351	Harper, G. S.	841	Mampel, T.	281	Rotenberg, S. A.	747
Davies, J. I.	789	Harris, R. A.	405	Manjunath, P.	195		
De Meester, F.	561	Harrison, R. A.	507	Manne, V.	763	Saggerson, E. D.	289
Deistung, J.	755	Harwood, J. L.	679	Margolius, H. S.	773	Sairam, M. R.	195
Dekker, C. J.	715	Haslam, R. J.	249, 457, 667	Marr, S. A.	821	Sánchez, G.	443
Delicado, E. G.	541	Hassinen, I. E.	853	Mathews, A. J.	379	Sanderson, P. N.	175
Díaz-Gil, J. J.	443	Havercroft, S. J.	31	Mayet, W. J.	189	Santamaría, L.	443

VOLUME AUTHOR INDEX (continued)

	PAGE		PAGE		PAGE		PAGE
Sartori, C. S.	249	Staron, R. S.	687, 695	Turner, N.	755	Wasil, M.	219, 867
Sato, H.	481	Steenkamp, D. J.	519	Turtle, J. R.	549	Wasserman, R. H.	75
Schröder, H. C.	189	Stephens, T. W.	405	Tyers, M.	249	Watson, S. P.	809, 815
Schütze, S.	729	Stephenson, S. L.	183			Waxman, L.	335
Seglen, P. O.	655	Stevenson, K. J.	661	Ulvik, R. J.	55	White, M. F.	797
Seidah, N. G.	195	Sugden, P. H.	473	Umei, T.	467	Wieland, O. H.	797
Sekiya, T.	313	Suiko, M.	555			Wiggins, D.	273
Shenoy, B. C.	723	Sundqvist, K. E.	853	Van Beeumen, J. J.	297, 561	Williams, B.	597
Shimojo, N.	773	Surolia, A.	79	van Berkel, T. J. C.	715	Williams, D. H.	113
Shoshan-Barmatz, V.	165	Swamy, M. J.	79	van Bun, S. M.	297	Williams, K. A.	667
Sie, P.	579			van Eijk, H. G.	715	Williams, P. F.	549
Simona, M. G.	829	Takeshige, K.	467	Vanfieteren, J. R.	297	Williamson, D. H.	267
Sinden, D. J.	15	Takuwa, N.	647	Vanner, M. A.	549	Wilson, M. T.	205
Sines, J. J.	159	Takuwa, Y.	647	Vernon, R. G.	69	Wingfield, P. T.	829
Singh, S. V.	61, 351	Tanaka, Y.	481	Villarroya, F.	281		
Skelly, J. V.	1	Tanner, M. J. A.	277	Vind, C.	625	Yoshioka, T.	97
Skurray, R. A.	309	Tashjian, A. H.	305	Vladutiu, G.	739	Young, H.-K.	309
Smith, C. J.	525	Thomas, H.	365	Vonderviszt, F.	449		
Smith, D. M.	473	Thomson, A. J.	225, 235, 241			Zammit, V. A.	261
Smith, S.	597	Tomita, T.	481	Wakelam, M. J. O.	39	Závodszy, P.	449
Smith, U.	789	Török, J.	449	Wallis, M.	365	Zuurveld, J.	841
Söling, H.-D.	729	Trilla, C.	443	Waring, M. J.	847	Zwicker, L.	105
Specian, R. D.	631	Trivedi, D.	39				