

**Editorial Board**

## Chair

**P. R. Shepherd** • Auckland

Vice Chair, The Americas

**G. Salvesen** • La Jolla, CA

Vice Chair, Asia-Pacific

**T. Xu** • Beijing

Vice Chair Reviews

**A. Toker** • Boston, MA

Deputy Chairs

**D. R. Alessi** • Dundee**M. Blatt** • Glasgow**L. J. Goodyear** • Boston, MA**S. V. Graham** • Glasgow**D. Hoekstra** • Groningen**N. M. Hooper** • Leeds**S. Huber** • Urbana, IL**J. Ladbury** • Houston, TX**M. A. Lemmon** • Philadelphia, PA**C. MacKintosh** • Dundee**K. H. Mayo** • Minneapolis, MN**M. Murphy** • Cambridge**S. Roberts** • Manchester**D. Tosh** • Bath**H. M. Wallace** • Aberdeen

Publisher

**P. J. Starley**

Executive Editor

**M. R. Thorne**

Production Manager

**M. D. Cunningham**

Staff Editors

**S. M. Hobday** (Senior Staff Editor)**L. Ball****C. L. Curtis****E. A. G. Elloway****J. W. Mockridge**

Editorial Assistant

**H. F. Roberts**

Administrative Editor, US Office

**S. Schendel**

S. Akira (Osaka)

R. A. Anderson (Madison, WI)

J. Arino (Barcelona)

J. M. Backer (Bronx, NY)

J. L. Blank (Cambridge, MA)

M. A. Bogoyevitch (Melbourne, VIC)

J. Bolaños (Salamanca)

P. J. Booth (Bristol)

L. Bosca (Madrid)

B. Brüne (Frankfurt)

N. J. Buckley (London)

J. F. Caceres (Edinburgh)

D. Carling (London)

M. Cascante (Barcelona)

L. Chernomordik (Bethesda)

A. C. Clark (Raleigh, NC)

V. Darley-Usmar (Birmingham, AL)

D. A. Day (Sydney)

R. Docampo (Athens, GA)

D. Doyle (Oxford)

C. S. Duckett (Ann Arbor, MI)

A. F. Dulhunty (Canberra)

P. Fay (Rochester, NY)

R. Ferraris (Newark, NJ)

S. E. Finkel (Los Angeles, CA)

P. G. W. Gettins (Chicago, IL)

R. Golsteyn (Lethbridge, AB)

B. Hallberg (Umeå)

B. Halliwell (Singapore)

L. Hedstrom (Waltham, MA)

I. B. Holland (Orsay)

J. M. Horowitz (Raleigh, NC)

A. Imberty (Grenoble)

D. A. Jans (Monash)

P.-S. Jayaraman (Birmingham)

D. Jordan (Peoria, IL)

M. G. Kazanietz (Philadelphia, PA)

D. W. Laird (London, Ont.)

J. H. Lakey (Newcastle upon Tyne)

K. Lingelbach (Marburg)

D. W. Litchfield (London, Ont.)

P. S. Lorenzo (Honolulu, HI)

L. Machesky (Glasgow)

E. Manser (Singapore)

M. McManus (Palmerston North)

J. Miernyk (Columbia, MO)

I. Morgan (Glasgow)

A. J. Morris (Lexington, KY)

M. Muckenthaler (Heidelberg)

B. Mulloy (South Mimms)

A. W. Munro (Manchester)

G. Murphy (Cambridge)

H. Y. Naim (Hannover)

G. Panayotou (Vare)

S. Patel (London)

G. Pavitt (Manchester)

N. D. Perkins (Bristol)

L. Persson (Lund)

W. C. Plaxton (Kingston, Ont.)

A. D. Postle (Southampton)

Z. Radic (La Jolla, CA)

D. R. Richardson (Sydney)

K. Rittinger (London)

J. M. Sanchez-Ruiz (Granada)

R. Sasisekharan (Cambridge, MA)

N. Savery (Bristol)

J. R. Sayers (Sheffield)

M. A. Schwartz (Charlottesville, VA)

M. C. Seabra (London)

F. J. Sharom (Guelph, Ont.)

G. S. Shelness (Winston-Salem, NC)

E. Smythe (Sheffield)

S. Spiegel (Richmond, VA)

S. Stack (Columbia, MO)

W. M. Stark (Glasgow)

H. Stenmark (Oslo)

C. W. Taylor (Cambridge)

N. K. Tonks (Cold Spring Harbor, NY)

M. Torti (Pavia)

C. Tournier (Manchester)

C. Troy (New York, NY)

H. D. Ulrich (South Mimms)

D. M. F. van Aalten (Dundee)

M. van der Woude (York)

B. Vanhaesebroeck (London)

M. Welham (Bath)

S. Whitney (Canberra)

C. Winterbourn (Christchurch, NZ)

H. Yagisawa (Hyogo-Ken)

I. Zachary (London)

C. Zurzolo (Paris)



- The Biochemical Society, London © 2009
- The *Biochemical Journal* (ISSN 0264-6021 for print/online journal; ISSN 1470-8728 for online only journal) is published and distributed by Portland Press Ltd on behalf of the Biochemical Society (the owner), and appears twice monthly (24 issues).
- **Editorial and publishing offices:** *Biochemical Journal*, Portland Press Ltd, Third Floor, Eagle House, 16 Procter Street, London WC1V 6NX, U.K.
- **US agent:** c/o Mercury International, 365 Blair Road, Avenel, NJ 07001, U.S.A.
- **Subscriptions department:** Portland Customer Services, P.O. Box 32, Commerce Way, Colchester CO2 8HP, U.K.
- All rights reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may be reproduced, stored or transmitted, in any forms or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction in accordance with the terms of permissions granted by copyright clearing houses such as the Copyright Licensing Agency (U.K.) or the Copyright Clearance Center (U.S.A.). The CCC item-fee code for this publication is 0264-6021/2009/\$50.00 + 0.00. Inquiries concerning reproduction outside those terms should be sent to the publishers at the above-mentioned address.
- Although, at the time of going to press, the information contained in this publication is believed to be correct, neither the authors nor the editors nor the publisher assume any responsibility for any errors or omissions herein contained. Opinions expressed in articles are not necessarily those of the editors, the publisher or the owner.
- Periodicals postage paid at Rahway, NJ, U.S.A.
- **Postmaster:** send address corrections to *Biochemical Journal*, c/o Mercury International, 365 Blair Road, Avenel, NJ 07001, U.S.A.
- **Cover design:** Angie Moyes ([www.fuz.co.uk](http://www.fuz.co.uk)).
- **Cover image credits:** Microbiology at Leeds, University of Leeds; M. Duchen and V. Mohamed-Ali, University College, London; Nottingham *Arabidopsis* Stock Centre (NASC); G. P. Côte, Kingston, Ont.; G. Salvesen, La Jolla; Dr Gordon Beahes, University of Newcastle upon Tyne.

● **General policy** The *Biochemical Journal* publishes papers in English in all fields of biochemistry and cellular and molecular biology, 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. Novel 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. The *Biochemical Journal* will not publish material that has been wholly or largely published elsewhere, even as a preliminary communication or in unreferenced symposium proceedings or on the World Wide Web (WWW); equally, fragmentation of research into the 'least publishable unit' is discouraged.

Submission of a paper implies that it has been approved by all the named authors, that all persons entitled to authorship have been so named, that it reports unpublished work that is not under consideration elsewhere, and that if the paper is accepted for publication the authors will transfer to the Biochemical Society the copyright in the paper, which will then not be published elsewhere in the same form, in any language, without the consent of the Society. Authors will be required to sign an undertaking to these effects.

Authors may suggest potential reviewers for their papers, but the journal is under no obligation to follow such suggestions. Authors may also specify the names of those they wish to be excluded from the review process, and such wishes are usually respected unless, in the opinion of the journal, such a request unreasonably excludes all the expertise available to it in that scientific area.

To allow the reviewers to assess possible overlap with previous work, all submitted papers must be accompanied by duplicate copies of the author's relevant published work, including that on the WWW, and of all related papers in press or under editorial consideration in this or other journals.

The following types of paper are included in the journal.

● **Research Papers** are the normal form of publication, and may be of any length that is justified by their content. However, because of pressure for space in the journal, no paper, whatever its scientific merits, will be accepted if it exceeds the minimum length required for

precision in describing the experiments and clarity in interpreting them. As a guide, most Research Papers published in the *Biochemical Journal* are of between six and eight printed pages. A concise well-written paper tends to be published more rapidly.

● **Accelerated Publications (APs)** are short (normally four printed pages) papers bringing particularly novel and significant findings to the attention of the research community. It is intended that a decision on acceptance or rejection will be made within 10 working days of receipt, and publication of accepted APs in an issue will follow within 2 months. APs receive full but accelerated reviewing. The criteria of 'novelty and significance' are strictly enforced, and papers may be rejected solely on the grounds of lack of novelty and significance. APs are not a path to accelerated publication of sound but non-urgent material. Authors must include in their letter of submission a brief statement of why they believe their AP merits accelerated treatment. Colour figures will be published free of charge in APs, provided the use of colour is deemed scientifically necessary by the reviewers.

● **Reviews** will usually be solicited, although unsolicited reviews will be considered for publication. Prospective writers of reviews should first consult the Reviews Editor, via the editorial office, and should enclose a short (one page) summary of the area they propose to cover.

● **Procedure for submission** These instructions do not replace the official *Biochemical Journal* Instructions to Authors (<http://www.BiochemJ.org>). Authors are encouraged to refer to these for overall guidelines on submitting a paper. Before preparing papers for the journal, authors should consult a current issue to make themselves familiar with the general format, such as the use of cross-headings, layout of tables and figures and citation of references. A full page of text in the *Biochemical Journal* contains approximately 1200 words; when calculating the printed length of papers, allowance must be made for the space occupied by tables and figures and the number of text words reduced accordingly.

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

● **Submit manuscripts online** Authors should submit manuscripts electronically using the Online Submission and Review System available at <http://www.BiochemJ.org/submit/>

● **Immediate Publications** Manuscripts are published online in PDF format as soon as they are accepted, unless on submission the author requests that this not be done. Immediate Publications are listed in and accessible through Medline, and are freely available to anyone with Internet access.

● **Opt2Pay** Choose to make your paper freely available. For more information see [www.biochemj.org](http://www.biochemj.org).

● **Queries and correspondence** Authors in the Americas should address all queries and correspondence about their submission to: Dr Sharon Schendel, BJ USA, The Burnham Institute, 10901 N. Torrey Pines Road, La Jolla, CA 92037, U.S.A. (telephone +1 858 795 5283; fax +1 858 795 5284; email [editorial@biochemjusa.org](mailto:editorial@biochemjusa.org)). Authors in the U.K., the rest of Europe, Japan and the rest of the world should contact: The Publisher, *Biochemical Journal*, Portland Press Ltd, Third Floor, Eagle House, 16 Procter Street, London WC1V 6NX, U.K. (telephone +44 20 7280 4110; fax +44 20 7280 4169; email [editorial@portlandpress.com](mailto:editorial@portlandpress.com)).

● **Colour figures** Colour figures are published free of charge provided that the corresponding author on the published paper has been a member of the Biochemical Society for at least 2 years and that the use of colour is deemed scientifically necessary by the reviewers. Otherwise the charges are £550 for the first colour figure and £300 for each subsequent colour figure.

● **Multimedia adjuncts** The Biochemical Journal Online offers authors the opportunity to enhance their papers with multimedia adjuncts (e.g. time-lapse movies, three-dimensional structures, animated schemes). These will be submitted to peer review alongside the manuscript. To submit a paper with a multimedia adjunct, please attach the file when you submit your manuscript electronically. Preferred formats are QuickTime for time-lapse movies, PDB for structures and Flash for animated schemes. There is no extra charge associated with the publication of a multimedia adjunct online.

● **COPE** The *Biochemical Journal* is a member of the Committee on Publication Ethics and endorses its guidelines, which are available at <http://publicationethics.org.uk>

### Other information

The *Biochemical Journal* is published and distributed by Portland Press Ltd on behalf of the Biochemical Society. It is published twice monthly; in 2009 volumes 417–424 (three parts each) will appear. The subscription also includes an author and key-word index.

● **Abstracted by/indexed in:** BIOBASE, BIOSIS, CAB International, Chemical Abstracts Service, Current Contents, EMBASE, International Food Information Service, Medline/Index Medicus, Proquest Information & Learning, Science Citation Index.

● **Subscription rates** Institutional subscription rates for 2009 are shown below. Subscribers to the *Biochemical Journal* can subscribe additionally to *Biochemical Society Transactions* and *Biochemistry and Applied Biochemistry* on a joint subscription at a reduced rate (see [www.portlandpress.com](http://www.portlandpress.com) for further details). Terms are cash with order (US\$ in N. America, £ sterling for rest of the world, or US\$ equivalent at current rate of exchange; subscribers in the EU may pay in £ sterling or Euros), or against pro forma invoice. Orders should

be sent to the address shown, to your usual agent or purchased online at [www.portlandpress.com](http://www.portlandpress.com).

	N. America	Rest of world	Euro price
One year (8 vols) Print and online	US\$3922	£1934	€3373
Online only	US\$3531	£1786	€3036
Single issues (print only)	US\$180.50	£91	€155

Overseas rates include airfreight delivery. Airspeeded delivery is available at an additional cost of £80/€101.

Value Added Tax (VAT) on online-only and 'combined' subscriptions is due on supplies to subscribers within the UK, and to non-registered subscribers elsewhere in the EU. If in the EU please state your VAT number otherwise VAT may be charged at the appropriate national rate.

● **Electronic back archive** This is freely available to all users with Internet access.

● **Microfiche and back issues** Volumes 102–408 of the *Biochemical Journal* are available

on microfiche. Back issues are also available. Further details may be obtained from the address below.

### ● Subscription Department

Portland Customer Services  
P.O. Box 32, Commerce Way  
Colchester CO2 8HP, Essex, U.K.  
(telephone 01206 796351; fax 01206 799331;  
[email\\_sales@portland-services.com](mailto:email_sales@portland-services.com)).

● **Advertising** Enquiries about advertising should be addressed to: Mark Burgess, Editorial Department, Portland Press Ltd, Third Floor, Eagle House, 16 Procter Street, London WC1V 6NX, U.K., tel.: +44 (0)20 7280 4110; fax: +44 (0)20 7280 4169; email: [editorial@portlandpress.com](mailto:editorial@portlandpress.com)

● The paper and cover-boards used in this journal are sourced from sustainable, managed and renewed commercial forests, and are fully recyclable. The bleaching process used for the pulp is 100% ECF (elemental chlorine free).

**Review****The intracellular interactions of the L1 family of cell adhesion molecules**

Published on the Internet 14 April 2009,  
doi:10.1042/BJ20082284

L.R. Herron, M. Hill, F. Davey  
and F.J. Gunn-Moore

519–531

**Research Papers**

Expression of the iron-regulatory protein haemojuvelin in retina and its regulation during cytomegalovirus infection

Published as BJ Immediate Publication 4 February 2009,  
doi:10.1042/BJ20082240

J.P. Gnana-Prakasam, M. Zhang, P.M. Martin,  
S.S. Atherton, S.B. Smith and V. Ganapathy

533–543

Physical state of  $\kappa$ -carrageenan modulates the mode of action of  $\kappa$ -carrageenase from

*Pseudoalteromonas carrageenovora*  
Published as BJ Immediate Publication 5 February 2009,  
doi:10.1042/BJ20080619

M. Lemoine, P. Nyvall Collén and W. Helbert

545–553

Structural and functional characterization of SplA, an exclusively specific protease of *Staphylococcus aureus*

Published as BJ Immediate Publication 28 January 2009,  
doi:10.1042/BJ20081351

J. Stec-Niemczyk, K. Pustelny, M. Kisieleska, M. Bista,  
K.T. Boulware, H.R. Stennicke, I.B. Thogersen,  
P.S. Daugherty, J.J. Enghild, K. Baczynski,  
G.M. Popowicz, A. Dubin, J. Potempa and G. Dubin



555–564

Lipid rafts enriched in phosphatidylglucoside direct astroglial differentiation by regulating tyrosine kinase activity of epidermal growth factor receptors

Published as BJ Immediate Publication 27 January 2009,  
doi:10.1042/BJ20081896

M.O. Kinoshita, S. Furuya, S. Ito, Y. Shinoda,  
Y. Yamazaki, P. Greimel, Y. Ito, T. Hashikawa,  
T. Machida, Y. Nagatsuka and Y. Hirabayashi



565–575

Antibody-mediated disruption of the interaction between PCSK9 and the low-density lipoprotein receptor

Published as BJ Immediate Publication 5 February 2009,  
doi:10.1042/BJ20082407

C.J. Duff, M.J. Scott, I.T. Kirby, S.E. Hutchinson,  
S.L. Martin and N.M. Hooper

577–584

Molecular analysis of heparan sulfate biosynthetic enzyme machinery and characterization of heparan sulfate structure in *Nematostella vectensis*

Published as BJ Immediate Publication 26 January 2009,  
doi:10.1042/BJ20082081

A. Feta, A.-T. Do, F. Rentzsch, U. Technau and  
M. Kusche-Gullberg



585–593

The C-terminus of the P22 tailspike protein acts as an independent oligomerization domain for monomeric proteins

Published as BJ Immediate Publication 5 February 2009,  
doi:10.1042/BJ20081449

T. Webber, S. Gurung, J. Saul, T. Baker, M. Spataro,  
M. Freyer, A.S. Robinson and M.J. Gage



595–602

PI3K $\gamma$  controls oxidative bursts in neutrophils via interactions with PKC $\alpha$  and p47phox

Published as BJ Immediate Publication 5 November 2008,  
doi:10.1042/BJ20081268

K. Lehmann, J.P. Müller, B. Schlott, P. Skroblin, D. Barz,  
J. Norgauer and R. Wetzker







603–610

Lipid phosphate phosphohydrolase type 1 (LPP1) degrades extracellular lysophosphatidic acid *in vivo*

Published as BJ Immediate Publication 12 February 2009,  
doi:10.1042/BJ20081888

J.L. Tomsig, A.H. Snyder, E.V. Berdyshev, A. Skobeleva,  
C. Mataya, V. Natarajan, D.N. Brindley and K.R. Lynch

611–618

- Structure of human insulin-like peptide 5 and characterization of conserved hydrogen bonds and electrostatic interactions within the relaxin framework  
*Published as BJ Immediate Publication 30 January 2009, doi:10.1042/BJ20082353*
- Cholesteryl ester transfer protein (CETP) increases postprandial triglyceridaemia and delays triacylglycerol plasma clearance in transgenic mice  
*Published as BJ Immediate Publication 4 February 2009, doi:10.1042/BJ20081299*
- Proper expression of helix-loop-helix protein Id2 is important to chondrogenic differentiation of ATDC5 cells  
*Published as BJ Immediate Publication 28 January 2009, doi:10.1042/BJ20081715*
- Retinoids synergize with insulin to induce hepatic *Gck* expression  
*Published as BJ Immediate Publication 27 January 2009, doi:10.1042/BJ20082368*
- Characterization of two distinct binding modes between syntaxin 4 and Munc18c  
*Published as BJ Immediate Publication 4 February 2009, doi:10.1042/BJ20082293*
- The assembly of CD1e is controlled by an N-terminal propeptide which is processed in endosomal compartments  
*Published as BJ Immediate Publication 5 February 2009, doi:10.1042/BJ20082204*
- Mitogen-activated protein kinase-mediated phosphorylation of peroxiredoxin 6 regulates its phospholipase A<sub>2</sub> activity  
*Published as BJ Immediate Publication 14 January 2009, doi:10.1042/BJ20082061*
- Formation of macromolecular complexes of carbonic anhydrases in the chloroplast of a marine diatom by the action of the C-terminal helix  
*Published as BJ Immediate Publication 9 February 2009, doi:10.1042/BJ20082315*
- L.M. Haugaard-Jönsson, M.A. Hossain, N.L. Daly, D.J. Craik, J.D. Wade and K.J. Rosengren
- A.G. Salerno, P.R. Patrício, J.A. Berti and H.C.F. Oliveira
- L. Yang, X. Ma, A. Lyone, J. Zou, M.L. Blackburn, J. Pan, D. Yang, H. Matsushita, B. Mei, A. Zielinska-Kwiatkowska and H.A. Chansky
- G. Chen, Y. Zhang, D. Lu, N.-q. Li and A.C. Ross
- V. Aran, F.M. Brandie, A.R. Boyd, T. Kantidakis, E.J. Rideout, S.M. Kelly, G.W. Gould and N.J. Bryant
- B. Maître, C. Angénioux, V. Wurtz, E. Layre, M. Gilleron, A. Collmann, S. Mariotti, L. Mori, D. Fricker, J.-P. Cazenave, A. Van Dorsselaer, C. Gachet, G. De Libero, G. Puzo, D. Hanau and H. de la Salle
- Y. Wu, S.I. Feinstein, Y. Manevich, I. Chowdhury, J.H. Pak, A. Kazi, C. Dodia, D.W. Speicher and A.B. Fisher
- Y. Kitao and Y. Matsuda
-  **619–627**
- 629–634**
- 635–643**
- 645–653**
- 655–660**
-  **661–668**
-  **669–679**
-  **681–688**

# Index of Authors

	PAGE		PAGE		PAGE		PAGE
Angénieux, C.	661	Fisher, A. B.	669	Lehmann, K.	603	Robinson, A. S.	595
Aran, V.	655	Freyer, M.	595	Lemoine, M.	545	Rosengren, K. J.	619
Atherton, S. S.	533	Fricker, D.	661	Li, N.-q.	645	Ross, A. C.	645
		Furuya, S.	565	Lu, D.	645		
Baczynski, K.	555			Lynch, K. R.	611	Salerno, A. G.	629
Baker, T.	595	Gachet, C.	661	Lyone, A.	635	Saul, J.	595
Barz, D.	603	Gage, M. J.	595			Schlott, B.	603
Berdyshev, E. V.	611	Ganapathy, V.	533	Ma, X.	635	Scott, M. J.	577
Berti, J. A.	629	Gilleron, M.	661	Machida, T.	565	Shinoda, Y.	565
Bista, M.	555	Gnana-Prakasam, J. P.	533	Maître, B.	661	Skobeleva, A.	611
Blackburn, M. L.	635	Gould, G. W.	655	Manevich, Y.	669	Skroblin, P.	603
Boulware, K. T.	555	Greimel, P.	565	Mariotti, S.	661	Smith, S. B.	533
Boyd, A. R.	655	Gunn-Moore, F. J.	519	Martin, P. M.	533	Snyder, A. H.	611
Brandie, F. M.	655	Gurung, S.	595	Martin, S. L.	577	Spatara, M.	595
Brindley, D. N.	611			Mataya, C.	611	Speicher, D. W.	669
Bryant, N. J.	655	Hanau, D.	661	Matsuda, Y.	681	Stec-Niemczyk, J.	555
		Hashikawa, T.	565	Matsushita, H.	635	Stennicke, H. R.	555
Cazenave, J.-P.	661	Hauggaard-Jönsson, L. M.	619	Mei, B.	635		
Chansky, H. A.	635	Helbert, W.	545	Mori, L.	661	Technau, U.	585
Chen, G.	645	Herron, L. R.	519	Müller, J. P.	603	Thogersen, I. B.	555
Chowdhury, I.	669	Hill, M.	519			Tomsig, J. L.	611
Collmann, A.	661	Hirabayashi, Y.	565	Nagatsuka, Y.	565		
Craik, D. J.	619	Hooper, N. M.	577	Natarajan, V.	611	Van Dorsselaer, A.	661
		Hossain, M. A.	619	Norgauer, J.	603		
Daly, N. L.	619	Hutchinson, S. E.	577	Nyvall Collén, P.	545	Wade, J. D.	619
Daugherty, P. S.	555					Webber, T.	595
Davey, F.	519	Ito, S.	565	Oliveira, H. C. F.	629	Wetzker, R.	603
de la Salle, H.	661	Ito, Y.	565			Wu, Y.	669
De Libero, G.	661			Pak, J. H.	669	Wurtz, V.	661
Do, A.-T.	585	Kantidakis, T.	655	Pan, J.	635		
Dodia, C.	669	Kazi, A.	669	Patrício, P. R.	629	Yamazaki, Y.	565
Dubin, A.	555	Kelly, S. M.	655	Popowicz, G. M.	555	Yang, D.	635
Dubin, G.	555	Kinoshita, M. O.	565	Potempa, J.	555	Yang, L.	635
Duff, C. J.	577	Kirby, I. T.	577	Pustelny, K.	555		
		Kisielewska, M.	555	Puzo, G.	661	Zhang, M.	533
Enghild, J. J.	555	Kitao, Y.	681			Zhang, Y.	645
		Kusche-Gullberg, M.	585	Rentzsch, F.	585	Zielinska-Kwiatkowska, A.	635
Feinstein, S. I.	669			Rideout, E. J.	655	Zou, J.	635
Feta, A.	585	Layre, E.	661				

# Index of Authors

## Volume 419, 2009

Abdel-Sater, F.	PAGE 185	Dodia, C.	PAGE 669	Hey, S. J.	PAGE 247	Luo, Xiangdong	PAGE 457
Agarwal, A.	427	Dolgova, N. V.	51	Hibbs, M. J.	65	Luo, Xiaofeng	457
Akagi, S.	237	Dong, Kangzhen	1	Higashimoto, Y.	339	Luo, Y.	211
Allen, J. W. A.	177	Dong, Ke	377	Hiley, E.	65	Lutsenko, S.	51
Almeida, M. R.	467	Dove, S. K.	1	Hill, M.	519	Lynch, K. R.	611
Alpi, E.	289	Du, M.	193	Hirabayashi, Y.	565	Lyone, A.	635
Alvarez, S.	193	Du, Y.	377	Hoebbers, N.	447		
Angénioux, C.	661	Dubin, A.	555	Hofr, C.	221	Ma, J.-x.	113
Antonescu, C.	475	Dubin, G.	555	Hollingsworth, E.	65	Ma, X.	635
Aran, V.	655	Duff, C. J.	577	Holotnakova, T.	419	Maccioni, H. J. F.	301
Arner, R. J.	401	Duffy, J.	507	Hooper, N. M.	577	Machala, M.	419
Arora, N.	309	Dun, N. J.	91	Horan, K. A.	29	Machida, T.	565
Atherton, S. S.	533	Dunne, A. A.	65	Hossain, M. A.	619	Maitre, B.	661
		Dyos, S.	65	Hsieh, H.-T.	201	Manevich, Y.	669
				Hu, M.-C.	201	Mar, F. M.	467
Bachi, A.	289			Huang, Q.	193	Mariotti, S.	661
Baczynski, K.	555	Eccleston, J.	347	Hueber, A.-O.	185	Martin, P. M.	533
Bain, J.	57	Emmons, A. J.	65	Hutchinson, J. P.	65	Martin, S. L.	577
Baker, T.	595	Engchild, J. J.	555	Hutchinson, S. E.	577	Martinez, J. G.	193
Bakirtzi, K.	105	Erales, J.	75			Martin-Del-Río, R.	359
Barilari, P.	289	Eroles, P.	279			Mason, A. Z.	237
Barker, P. D.	177			Ikawa, M.	149	Mataya, C.	611
Barz, D.	603	Fajkus, J.	221	Ikeda, Y.	149	Matsuda, Y.	681
Batt, J.	57	Farjo, K.	113	Imamura, T.	159	Matsushita, H.	635
Benes, J.	437	Feinstein, S. I.	669	Iskratsch, T.	83	Mayadevi, M.	123
Bercovich, Z.	99	Ferguson, S. J.	177	Ito, S.	565	McDonald, K.	211
Berdyshev, E. V.	611	Fernandez-L, A.	485	Ito, Y.	565	Mei, B.	635
Berti, J. A.	629	Ferramosca, A.	369	Itoh, N.	387	Mensa-Wilmot, K.	507
Bhatnagar, R. K.	309	Feta, A.	585	Iuchi, Y.	149	Michalak, K.	437
Bista, M.	555	Fewell, S. W.	507			Michell, R. H.	1
Blackburn, M. L.	635	Field, M. C.	e1	Jamaluddin, W. W.	273	Mikami, T.	387
Bogyo, M.	467	Fischer Von Mollard, G.	229	Johnson, M. S.	427	Minakami, R.	329
Bolisetty, S.	427	Fisher, A. B.	669			Mitchell, C. A.	29
Bonen, A.	447	Fleming, C. E.	467	Kahana, C.	99	Miyake, A.	387
Borgmeyer, U.	167	Flett, F.	65	Kalantari, P.	401	Miyamoto, Y.	159
Bosch, A.	279	Freyer, M.	595	Kamakura, S.	329	Miyano, K.	329
Botella, L. M.	485	Fricke, D.	661	Kamijo, R.	159	Mizumoto, S.	387
Boulware, K. T.	555	Friedman, S. L.	485	Kandror, K. V.	105	Moiseyev, G.	113
Bowman, M. J.	497	Fujii, J.	149	Kantardjieff, K.	237	Mori, L.	661
Boyd, A. R.	655	Fukuyama, K.	339	Kantidakis, T.	655	Morse, M. A.	65
Brailoiu, E.	91	Furuya, S.	565	Kaufman, J. D.	497	Mozgová, I.	221
Brailoiu, G. C.	91			Kazi, A.	669	Müller, J. P.	603
Brandie, F. M.	655	Gachet, C.	661	Kelly, S. M.	655	Murphy, M. P.	427
Brindley, D. N.	611	Gage, M. J.	595	Keren-Paz, A.	99		
Brodsky, J. L.	507	Galione, A.	91	Kethesparan, D. S.	29	Nagatsuka, Y.	565
Bryant, N. J.	655	Ganapathy, V.	533	Keynes, R. G.	411	Narayan, V.	401
		Gandhi, U.	401	Kibe, N.	149	Narla, G.	485
Cabrera, A.	237	Garcia, C.	279	Kidane, T. Z.	237	Natarajan, V.	611
Cazenave, J.-P.	661	García-Trevijano, E. R.	279	Kinoshita, M. O.	565	Ng, M. H.	133
Chansky, H. A.	635	Garrido-Martin, E. M.	485	Kirby, I. T.	577	Nguyen, A.	237
Chen, G.	645	Garthwaite, J.	411	Kisielewska, M.	555	Niessen, H. E. C.	447
Chen, H.	133	Gilleron, M.	661	Kitagawa, H.	387	Nimbalkar, S. A.	309
Chen, Y.	133	Ginger, M. L.	177	Kitao, Y.	681	Noguchi, M.	339
Chen, Y.	133	Glatz, J. F. C.	447	Kitson, J. D.	65	Nomura, Y.	377
Cheriyán, J.	123	Gnana-Prakasam, J. P.	533	Klichko, V. I.	437	Norgauer, J.	603
Chmielewski, J.	497	Goldenberg, N.	57	Klip, A.	475	Nunes, A. F.	467
Choe, Y.	467	Gontero, B.	75	Kobayashi, N.	387	Nyvall Collén, P.	545
Chothia, C.	15	González Montoro, A.	301	Kobayashi, T.	1		
Chowdhury, I.	669	Gottfried, A.	229	Kojima, S.	485	Okabe, M.	149
Chu, Y.-L.	237	Gough, J.	15	Komi, Y.	485	Okada, F.	149
Churchill, G. C.	91	Gould, G. W.	655	Konarev, P. V.	347	Oliveira, H. C. F.	629
Collmann, A.	661	Gradin, K.	419	Kopacek, J.	419	Olson, D.	51
Coort, S. L. M.	447	Gray, L. W.	237	Kusche-Gullberg, M.	585	Omkumar, R. V.	123
Corrales, F.	279	Greimel, P.	565			Ooms, L. M.	29
Correa, J.	57	Guan, Y.	133	Lai, F. A.	273	Oren, A.	193
Coumans, W. A.	447	Gul, S.	65	Lampe, P. D.	261	Orr, W. C.	437
Couzens, A. L.	141	Gunn-Moore, F. J.	519	Landar, A.	427		
Craik, C. S.	467	Gurung, R.	29	Landi, E.	289	Pak, J. H.	669
Craik, D. J.	619	Gurung, S.	595	Lane, A.	507	Palempalli, U. D.	401
		Gutternigg, M.	83	Layre, E.	661	Palmer, G.	339
				Lee, J.-E.	377	Palmieri, F.	369
Daly, N. L.	619	Halford, N. G.	247	Lehmann, K.	603	Pan, J.	635
Daniels, S. I.	497	Halgand, F.	75	Lemoine, M.	545	Parkesh, R.	91
Daugherty, P. S.	555	Hall, C. N.	411	Li, L. V.	105	Pastore, A.	347
Davey, F.	519	Hanau, D.	661	Li, N.-q.	645	Pastorek, J.	419
Davis, D. A.	497	Hanrahan, J. W.	211	Linder, M. C.	237	Pastorekova, S.	419
Davis, R. C.	507	Hashikawa, T.	565	Liu, Z.	475	Patel, S.	91
De la Salle, H.	661	Hassan, N. J.	65	Liz, M. A.	467	Patham, B.	507
De Libero, G.	661	Haugaard-Jönsson, L. M.	619	Lluch, A.	279	Patrício, P. R.	629
Dente, L.	289	Helbert, W.	545	Lohner, K.	193	Pencikova, K.	419
Derouet, M.	185	Hentschke, M.	167	Lu, D.	645	Perez, J.	427
Desharnais, R.	193	Hernández-Fisac, I.	359	Luiken, J. J. F. P.	447	Pessin, J. E.	105
Dmitriev, O. Y.	51	Herron, L. R.	519	Luo, W.	133		
Do, A.-T.	585						

	PAGE		PAGE		PAGE		PAGE
Petrasek, K.	237	Salvadori, P.	289	Sumimoto, H.	329	Wilson, I. B. H.	83
Pizarro-Delgado, J.	359	Sandoval, N.	193	Sun, R.	457	Wimmerová, M.	221
Plant, P. J.	57	Sanz-Rodriguez, F.	485	Süsens, U.	167	Wingfield, P.	497
Poellinger, L.	419	Saridakis, V.	141	Svergun, D. I.	347	Wipf, P.	507
Popowicz, G. M.	555	Sato, H.	339	Tai, Y.-C.	201	Wu, M.-L.	201
Porter, E.	193	Saul, J.	595	Takacova, M.	419	Wu, Y.	669
Potempa, J.	159	Sawyer, E. B.	177	Takahashi, Y.	113	Wurtz, V.	661
Potempa, J.	555	Scheid, M. P.	141	Takami, M.	159	Xia, N.	133
Powell, D. J.	65	Schlott, B.	603	Takeya, R.	329	Xia, Z.	457
Powers, J. C.	467	Schwenk, R. W.	447	Talior-Volodarsky, I.	475	Yamauchi, H.	387
Prabhu, K. S.	401	Scott, M. J.	577	Tamarit-Rodriguez, J.	359	Yamazaki, Y.	565
Pradeep, K. K.	123	Seaton, G.	29	Taura, M.	329	Yang, D.	635
Praseeda, M.	123	Serresi, M.	289	Taylor, I. A.	347	Yang, F.-M.	201
Procházková Schrupfová, P.	221	Sharom, F. J.	317	Tebbs, I. R.	497	Yang, L.	635
Pustelny, K.	555	Shimokawa, C.	339	Technau, U.	585	Yang, Z.	457
Puzo, G.	661	Shinoda, Y.	565	Tew, D. G.	65	Yao, Y.	457
Qi, J.	457	Shirasawa, N.	149	Thogersen, I. B.	555	Yarchoan, R.	497
Quiroga, R.	301	Siarheyeva, A.	317	Thomas, N. L.	273	Yasuhara, R.	159
Radyuk, S. N.	437	Sivakumar, S.	309	Tomsig, J. L.	611	Yasunaga, D.	387
Rahman, P.	29	Sjekloča, L.	347	Torres, L.	279	Yoshimura, K.	159
Rajagopal, R.	309	Skobeleva, A.	611	Tsunoda, S.	149	Young, J. C.	369
Rajeevkumar, R.	123	Skroblin, P.	603	Valdez Taubas, J.	301	Zaid, H.	475
Rao, N. G. V.	309	Smith, S. B.	533	Van Dorsselaer, A.	661	Zara, V.	369
Ravindran, A.	401	Snapir, Z.	99	Varela, E.	485	Zaragoza, R.	279
Rebrin, I.	437	Snyder, A. H.	611	Viña, J. R.	279	Zenz, A.	193
Rendić, D.	83	Sohal, R. S.	437	Voglauer, R.	83	Zhang, J.	133
Rentzsch, F.	585	Solan, J. L.	261	Vondracek, J.	419	Zhang, M.	533
Ricart, K. C.	427	Song, H.	133	Vunta, H.	401	Zhang, T.	377
Rideout, E. J.	655	Sousa, M. M.	467	Wade, J. D.	619	Zhang, Y.	645
Robinson, A. S.	595	Spatara, M.	595	Waldon, M.	193	Zhao, X.	457
Robitaille-Foucher, P.	369	Speicher, D. W.	669	Wang, C.-H.	201	Zheng, Z.	133
Rosengren, K. J.	619	Stahl, S. J.	497	Wang, M.	133	Zhorov, B. S.	377
Ross, A. C.	645	Stec-Niemczyk, J.	555	Watson, R. T.	105	Zhou, F.	193
Rossin, A.	185	Stein, I. S.	229	Webber, T.	595	Zielinska-Kwiatkowska, A.	635
Rüdiger, M.	65	Stennicke, H. R.	555	Wetzker, R.	603	Zimmermann, J.	229
Sakamoto, H.	339	Su, Y.	457	Whitelegge, J.	75	Zimmermann, M.	221
Salerno, A. G.	629	Sugahara, K.	387	Williams, F. K.	1	Zissimopoulos, S.	273
		Sugishima, M.	339			Zou, J.	635
		Šultesová, P.	221				
		Suma Priya, S. D.	123				