

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, Europe

D. R. Alessi • Dundee

Vice Chair Reviews

A. Toker • Boston, MA

Deputy Chairs

M. Blatt • Glasgow**L. J. Goodyear** • Boston, MA**S. V. Graham** • Glasgow**D. Hoekstra** • Groningen**S. Huber** • Urbana, IL**J. E. Ladbury** • Houston, TX**M. A. Lemmon** • Philadelphia, PA**C. MacKintosh** • Dundee**M. Murphy** • Cambridge**S. Roberts** • Buffalo, NY**D. A. Schwartz** • Charlottesville, VA**M. Tosh** • Bath**D. M. F. van Aalten** • Dundee**B. Vanhaesebroeck** • London**H. M. Wallace** • Aberdeen**M. F. White** • St Andrews

Publisher

P. J. Starley

Executive Editor

M. R. Thorne

Head of Production

M. D. Cunningham

Staff Editors

M. Banerjee**C. L. Curtis****E. A. G. Elloway****J. W. Mockridge****H. F. Roberts**

Administrative Editor, US Office

S. Schendel

J. Ariño (Barcelona)

T. K. Attwood (Manchester)

J. M. Backer (Bronx, NY)

B. M. Baker (Notre Dame, IN)

J. E. Bear (Chapel Hill, NC)

J. L. Blank (Cambridge, MA)

M. A. Bogoyevitch (Melbourne, VIC)

L. H. Boise (Atlanta, GA)

J. Bolaños (Salamanca)

P. J. Booth (Bristol)

L. Boscá (Madrid)

P. S. Brookes (Rochester, NY)

N. J. Buckley (London)

D. Burger (Geneva)

J. F. Cáceres (Edinburgh)

D. Carling (London)

M. Cascante (Barcelona)

Y.-G. Chen (Beijing)

L. Chernomordik (Bethesda, MD)

A. C. Clark (Raleigh, NC)

V. Darley-Usmar (Birmingham, AL)

M. J. Davies (Sydney)

B. Davis (Oxford)

L. A. Devi (New York, NY)

I. Dikic (Frankfurt)

R. Docampo (Athens, GA)

D. Doyle (Dublin)

C. S. Duckett (Ann Arbor, MI)

A. F. Dulhunty (Canberra)

P. Fay (Rochester, NY)

S. Flitsch (Manchester)

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

R. Golsteyn (Lethbridge, AB)

B. Halliwell (Singapore)

J. A. Hardy (Amherst, MA)

J. M. Horowitz (Raleigh, NC)

E. Ikonen (Helsinki)

A. Imberty (Grenoble)

D. A. Jans (Monash)

D. Jordan (Peoria, IL)

M. G. Kazanietz (Philadelphia, PA)

Z. Knight (New York)

D. Komander (Cambridge)

D. W. Laird (London, Ont.)

J. H. Lakey (Newcastle upon Tyne)

K. Lingelbach (Marburg)

D. W. Litchfield (London, Ont.)

B. Luisi (Cambridge)

E. Manser (Singapore)

M. McManus (Palmerston North)

J. Miernyk (Columbia, MO)

E. T. Morgan (Atlanta, GA)

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)

J. H. Naismith (St Andrews)

A. R. Nebreda (Barcelona)

W. Ogawa (Kobe)

G. Panayotou (Vare)

S. Patel (London)

G. Pavitt (Manchester)

N. D. Perkins (Newcastle)

P. F. Pilch (Boston, MA)

W. C. Plaxton (Kingston, Ont.)

S. Ponnambalam (Leeds)

R. Y. Poon (Hong Kong)

B. V. L. Potter (Bath)

Z. Radić (La Jolla, CA)

D. R. Richardson (Sydney)

K. Rittinger (London)

M. F. Roberts (Boston, MA)

J. M. Sanchez-Ruiz (Granada)

R. Sasisekharan (Cambridge, MA)

N. Savery (Bristol)

J. R. Sayers (Sheffield)

K. Schumacher (Heidelberg)

P. T. Schumacker (Chicago, IL)

M. C. Seabra (London)

F. J. Sharom (Guelph, Ont.)

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

H. Shimano (Tsukuba City)

J. Slack (Minneapolis, MN)

E. Smythe (Sheffield)

S. Spiegel (Richmond, VA)

S. Stack (Columbia, MO)

W. M. Stark (Glasgow)

H. Stenmark (Oslo)

C. Tickle (Bath)

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

C. Tournier (Manchester)

C. Troy (New York, NY)

H. D. Ulrich (South Mimms)

M. van der Woude (York)

A. J. Vidal-Puig (Cambridge)

H. J. Vogel (Calgary)

M. Welham (Bath)

S. Whitney (Canberra)

C. Winterbourn (Christchurch, NZ)

D. Withers (London)

D. Wu (Guangzhou)

A. Xu (Hong Kong)

H.-W. Xue (Shanghai)

I. Zachary (London)

C. Zurzolo (Paris)



- Journal compilation © 2011 Biochemical Society
- The *Biochemical Journal* (ISSN 0264-6021 for print/online journal; ISSN 1470-8728 for online only journal) is published and distributed by Portland Press Limited on behalf of the Biochemical Society (the owner), and appears twice monthly (24 issues).
- **Editorial and publishing offices:** *Biochemical Journal*, Portland Press Limited, Third Floor, Charles Darwin House, 12 Roger Street, London WC1N 2JU, 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 0264-6021/2011/\$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).
- **Cover image credits:** Sharon M. Stack, University of Missouri; Carmen A. Mannella, Research and Technology Wadsworth Center, Albany, NY; Nottingham Arabidopsis Stock Centre (NASC); G. P. Côté, Kingston, Ont.; G. Salvesen, La Jolla; Dr Gordon Beahes, Newcastle University.

● **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 knowledge in these fields. 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, although these papers should also contain some experimental testing of the theory. 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 unrefereed 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.

● **Queries and correspondence** Authors in the Americas should address all queries and correspondence about their submission to: Dr Sharon Schendel, BJ USA, The Sanford-Burnham Institute for Medical Research, 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). Authors in China should contact: Dr Lin Huo, Institute of Biophysics, Chinese Academy of Sciences, Room 5202, 15 Datun Road, Chaoyang District, Beijing 100101 (telephone +86 10 64888573; email editorial@biochemj.cn). Authors in the U.K., the rest of Europe, Japan and the rest of the world should contact: The Publisher, *Biochemical Journal*, Portland Press Limited, Third Floor, Charles Darwin House, 12 Roger Street, London WC1N 2JL, U.K. (telephone +44 20 7685 2410; fax +44 20 7685 2469; email editorial@portlandpress.com).

● **Colour figures** Colour figures are published free of charge provided that the corresponding author on the published paper has been a Full or Early Career 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 Limited on behalf of the Biochemical Society. It is published twice monthly; in 2011 volumes 433–440 (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 2011 are shown below. Subscribers to the *Biochemical Journal* can subscribe additionally to *Biochemical Society Transactions* on a joint subscription at a reduced rate (see 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.

	N. America	Rest of world	Euro price
One year (8 vols)	US\$4439	£2373	€3812
Print and online	US\$3995	£2136	€3430
Online only	US\$235	£119	€202
Single issues (print only)			

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).

● **Advertising** Enquiries about advertising should be addressed to marketing@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).

Reviews**Regulation of mitochondrial metabolism: yet another facet in the biology of the oncoprotein Bcl-2**

Published on the Internet 13 April 2011,
doi:10.1042/BJ20101996

S. Krishna, I.C.C. Low and S. Pervaiz

545–551

Regulation of spermiogenesis, spermiation and blood–testis barrier dynamics: novel insights from studies on Eps8 and Arp3

Published on the Internet 13 April 2011,
doi:10.1042/BJ20102121

C.Y. Cheng and D.D. Mruk

553–562

Accelerated Publication

TFCP2c/LSF/LBP-1c is required for Snail1-induced fibronectin gene expression

Published as BJ Immediate Publication 2 March 2011,
doi:10.1042/BJ20102057

M. Porta-de-la-Riva, J. Stanisavljevic, J. Curto, C. Francí, V.M. Díaz, A. García de Herreros and J. Baulida



563–568

Research Papers

Enhancement of myosin II/actin turnover at the contractile ring induces slower furrowing in dividing HeLa cells

Published as BJ Immediate Publication 13 January 2011,
doi:10.1042/BJ20100837

T. Kondo, K. Hamao, K. Kamijo, H. Kimura, M. Morita, M. Takahashi and H. Hosoya



569–576

Autotransporter passenger domain secretion requires a hydrophobic cavity at the extracellular entrance of the β -domain pore

Published as BJ Immediate Publication 10 February 2011,
doi:10.1042/BJ20101548

Y. Zhai, K. Zhang, Y. Huo, Y. Zhu, Q. Zhou, J. Lu, I. Black, X. Pang, A.W. Roszak, X. Zhang, N.W. Isaacs and F. Sun



577–587

Evident and latent plasticity across the rice diterpene synthase family with potential implications for the evolution of diterpenoid metabolism in the cereals

Published as BJ Immediate Publication 16 February 2011,
doi:10.1042/BJ20101429

D. Morrone, M.L. Hillwig, M.E. Mead, L. Lowry, D.B. Fulton and R.J. Peters

589–595

The C2 domain of Tollip, a Toll-like receptor signalling regulator, exhibits broad preference for phosphoinositides

Published as BJ Immediate Publication 7 February 2011,
doi:10.1042/BJ20102160

G. Ankem, S. Mitra, F. Sun, A.C. Moreno, B. Chutvirasakul, H.F. Azurmendi, L. Li and D.G.S. Capelluto



597–608

Neuropilin-1 mediates PDGF stimulation of vascular smooth muscle cell migration and signalling via p130^{Cas}

Published as BJ Immediate Publication 9 February 2011,
doi:10.1042/BJ20100580

C. Pellet-Many, P. Frankel, I.M. Evans, B. Herzog, M. Jünemann-Ramírez and I.C. Zachary



609–618

Trans-interaction of nephrin and Neph1/Neph3 induces cell adhesion that associates with decreased tyrosine phosphorylation of nephrin

Published as BJ Immediate Publication 9 February 2011,
doi:10.1042/BJ20101599

E. Heikkilä, M. Ristola, M. Havana, N. Jones, H. Holthöfer and S. Lehtonen

619–628

Inter- and intra-molecular interactions of *Arabidopsis thaliana* DELLA protein RGL1

Published as BJ Immediate Publication 15 February 2011,
doi:10.1042/BJ20101941



D.J. Sheerin, J. Buchanan, C. Kirk, D. Harvey, X. Sun, J. Spagnuolo, S. Li, T. Liu, V.A. Woods, T. Foster, W.T. Jones and J. Rakonjac



629–639

Contents

- Galactose induction of the *GAL1* gene requires conditional degradation of the Mig2 repressor
Published as BJ Immediate Publication 16 February 2011, doi:10.1042/BJ20102034
- When a module is not a domain: the case of the REJ module and the redefinition of the architecture of polycystin-1
Published as BJ Immediate Publication 14 February 2011, doi:10.1042/BJ20101810
- Nuclear envelope dynamics during plant cell division suggest common mechanisms between kingdoms
Published as BJ Immediate Publication 15 February 2011, doi:10.1042/BJ20101769
- Comparing the potential renal protective activity of desferrioxamine B and the novel chelator desferrioxamine B-*N*-(3-hydroxyadamant-1-yl)carboxamide in a cell model of myoglobinuria
Published as BJ Immediate Publication 14 February 2011, doi:10.1042/BJ20101728
- Deficit of complex I activity in human skin fibroblasts with chromosome 21 trisomy and overproduction of reactive oxygen species by mitochondria: involvement of the cAMP/PKA signalling pathway
Published as BJ Immediate Publication 22 February 2011, doi:10.1042/BJ20101908
- Eicosanoid formation by a cytochrome P450 isoform expressed in the pharynx of *Caenorhabditis elegans*
Published as BJ Immediate Publication 11 February 2011, doi:10.1042/BJ20101942
- A_{2A} adenosine receptor ligand binding and signalling is allosterically modulated by adenosine deaminase
Published as BJ Immediate Publication 9 February 2011, doi:10.1042/BJ20101749
- Molecular interaction and functional regulation of connexin50 gap junctions by calmodulin
Published as BJ Immediate Publication 14 February 2011, doi:10.1042/BJ20101726
- Carnitine palmitoyltransferase 1A prevents fatty acid-induced adipocyte dysfunction through suppression of c-Jun N-terminal kinase
Published as BJ Immediate Publication 24 February 2011, doi:10.1042/BJ20101680
- Recombinant Deg/HtrA proteases from *Synechocystis* sp. PCC 6803 differ in substrate specificity, biochemical characteristics and mechanism
Published as BJ Immediate Publication 21 February 2011, doi:10.1042/BJ20102131
- A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by *Paracoccus denitrificans*
Published as BJ Immediate Publication 24 February 2011, doi:10.1042/BJ20101920
- Phosphorylation of cAMP-specific PDE4A5 (phosphodiesterase-4A5) by MK2 (MAPKAPK2) attenuates its activation through protein kinase A phosphorylation
Published as BJ Immediate Publication 17 February 2011, doi:10.1042/BJ20101184
- M.K. Lim, W.L. Siew, J. Zhao, Y.C. Tay, E. Ang and N. Lehming
- S. Schröder, F. Fraternali, X. Quan, D. Scott, F. Qian and M. Pfuhl
- K. Graumann and D.E. Evans
- L.K. Groebler, J. Liu, A. Shanu, R. Codd and P.K. Witting
- D. Valenti, G.A. Manente, L. Moro, E. Marra and R.A. Vacca
- M. Kosel, W. Wild, A. Bell, M. Rothe, C. Lindschau, C.E.W. Steinberg, W.-H. Schunck and R. Menzel
- E. Gracia, K. Pérez-Capote, E. Moreno, J. Barkešová, J. Mallol, C. Lluís, R. Franco, A. Cortés, V. Casadó and E.I. Canela
- Y. Chen, Y. Zhou, X. Lin, H.-C. Wong, Q. Xu, J. Jiang, S. Wang, M.M. Lurtz, C.F. Louis, R.D. Veenstra and J.J. Yang
- X. Gao, K. Li, X. Hui, X. Kong, G. Sweeney, Y. Wang, A. Xu, M. Teng, P. Liu and D. Wu
- P.F. Huesgen, H. Miranda, X. Lam, M. Perthold, H. Schuhmann, I. Adamska and C. Funk
- A.J. Gates, V.M. Luque-Almagro, A.D. Goddard, S.J. Ferguson, M.D. Roldán and D.J. Richardson
- K.F. MacKenzie, D.A. Wallace, E.V. Hill, D.F. Anthony, D.J.P. Henderson, D.M. Houslay, J.S.C. Arthur, G.S. Baillie and M.D. Houslay
-  **641–649**
-  **651–660**
-   **661–667**
-  **679–688**
-  **689–700**
-  **711–722**
-  **723–732**
-  **733–742**
-  **743–753**
- 755–769**

<p>Peroxisomal multifunctional enzyme type 2 from the fruitfly: dehydrogenase and hydratase act as separate entities, as revealed by structure and kinetics <i>Published as BJ Immediate Publication 14 February 2011, doi:10.1042/BJ20101661</i></p>	<p>T.J.K. Haataja, M.K. Koski, J.K. Hiltunen and T. Glumoff</p>	<p> 771–781</p>
<p>Domain interactions of the transcription–translation coupling factor <i>Escherichia coli</i> NusG are intermolecular and transient <i>Published as BJ Immediate Publication 23 February 2011, doi:10.1042/BJ20101679</i></p>	<p>B.M. Burmann, U. Scheckenhofer, K. Schweimer and P. Rösch</p>	<p> 783–789</p>
<p>Corrections</p>		
<p>Phosphorylation of bacterial-type phosphoenolpyruvate carboxylase at Ser⁴²⁵ provides a further tier of enzyme control in developing castor oil seeds</p>	<p>B. O’Leary, S.K. Rao and W.C. Plaxton</p>	<p>791</p>
<p>Male infertility-linked point mutation disrupts the Ca²⁺ oscillation-inducing and PIP₂ hydrolysis activity of sperm PLCζ</p>	<p>M. Nomikos, K. Elgmati, M. Theodoridou, B.L. Calver, B. Cumbes, G. Nounesis, K. Swann and F.A. Lai</p>	<p>791</p>

Index of Authors

	PAGE		PAGE		PAGE		PAGE
Adamska, I.	733	Groebler, L. K.	669	Louis, C. F.	711	Schröder, S.	651
Ang, E.	641			Low, I. C. C.	545	Schuhmann, H.	733
Ankem, G.	597	Haataja, T. J. K.	771	Lowry, L.	589	Schunck, W.-H.	689
Anthony, D. F.	755	Hamao, K.	569	Lu, J.	577	Schweimer, K.	783
Arthur, J. S. C.	755	Harvey, D.	629	Luque-Almagro, V. M.	743	Scott, D.	651
Azurmendi, H. F.	597	Havana, M.	619	Lurtz, M. M.	711	Shanu, A.	669
		Heikkilä, E.	619			Sheerin, D. J.	629
Baillie, G. S.	755	Henderson, D. J. P.	755	MacKenzie, K. F.	755	Siew, W. L.	641
Barkešová, J.	701	Herzog, B.	609	Mallol, J.	701	Spagnuolo, J.	629
Baulida, J.	563	Hill, E. V.	755	Manente, G. A.	679	Stanisavljevic, J.	563
Bell, A.	689	Hillwig, M. L.	589	Marra, E.	679	Steinberg, C. E. W.	689
Black, I.	577	Hiltunen, J. K.	771	Mead, M. E.	589	Sun, F.	577, 597
Buchanan, J.	629	Holthófer, H.	619	Menzel, R.	689	Sun, X.	629
Burmann, B. M.	783	Hosoya, H.	569	Miranda, H.	733	Swann, K.	791
		Houslay, D. M.	755	Mitra, S.	597	Sweeney, G.	723
		Houslay, M. D.	755	Moreno, A. C.	597		
Calver, B. L.	791	Huesgen, P. F.	733	Moreno, E.	701	Takahashi, M.	569
Canela, E. I.	701	Hui, X.	723	Morita, M.	569	Tay, Y. C.	641
Capelluto, D. G. S.	597	Huo, Y.	577	Moro, L.	679	Teng, M.	723
Casadó, V.	701			Morrone, D.	589	Theodoridou, M.	791
Chen, Y.	711	Isaacs, N. W.	577	Mruk, D. D.	553		
Cheng, C. Y.	553			Nomikos, M.	791	Vacca, R. A.	679
Chutvirasakul, B.	597	Jiang, J.	711	Nounesis, G.	791	Valenti, D.	679
Codd, R.	669	Jones, N.	619			Veenstra, R. D.	711
Cortés, A.	701	Jones, W. T.	629	O'Leary, B.	791		
Cumbes, B.	791	Jünemann-Ramírez, M.	609			Wallace, D. A.	755
Curto, J.	563			Pang, X.	577	Wang, S.	711
		Kamijo, K.	569	Pellet-Many, C.	609	Wang, Y.	723
Díaz, V. M.	563	Kimura, H.	569	Pérez-Capote, K.	701	Wild, W.	689
		Kirk, C.	629	Perthold, M.	733	Witting, P. K.	669
Elgmati, K.	791	Kondo, T.	569	Pervaiz, S.	545	Wong, H.-C.	711
Evans, D. E.	661	Kong, X.	723	Peters, R. J.	589	Woods, V. A.	629
Evans, I. M.	609	Kosel, M.	689	Pfuhl, M.	651	Wu, D.	723
		Koski, M. K.	771	Plaxton, W. C.	791		
Ferguson, S. J.	743	Krishna, S.	545	Porta-de-la-Riva, M.	563		
Foster, T.	629			Qian, F.	651	Xu, A.	723
Francí, C.	563	Lai, F. A.	791	Quan, X.	651	Xu, Q.	711
Franco, R.	701	Lam, X.	733				
Frankel, P.	609	Lehming, N.	641	Rakonjac, J.	629	Yang, J. J.	711
Fraternali, F.	651	Lehtonen, S.	619	Rao, S. K.	791		
Fulton, D. B.	589	Li, K.	723	Richardson, D. J.	743	Zachary, I. C.	609
Funk, C.	733	Li, L.	597	Ristola, M.	619	Zhai, Y.	577
		Li, S.	629	Roldán, M. D.	743	Zhang, K.	577
Gao, X.	723	Lim, M. K.	641	Rösch, P.	783	Zhang, X.	577
García de Herreros, A.	563	Lin, X.	711	Roszak, A. W.	577	Zhao, J.	641
Gates, A. J.	743	Lindschau, C.	689	Rothe, M.	689	Zhou, Q.	577
Glumoff, T.	771	Liu, T.	629			Zhou, Y.	711
Goddard, A. D.	743	Liu, J.	669	Scheckenhofer, U.	783	Zhu, Y.	577
Gracia, E.	701	Liu, P.	723				
Graumann, K.	661	Lluís, C.	701				

Index of Authors

Volume 435, 2011

	PAGE		PAGE		PAGE		PAGE
Adamska, I.	167, 733	Codd, R.	669	Green, C. J.	463	Laybutt, D. R.	267
Aigrain, L.	197	Contursi, P.	157	Grigoriev, I. I.	441	Lee, J.	327
Akbar, M.	327	Cortés, A.	701	Groebler, L. K.	669	Lehming, N.	641
Al-Mokhtar, R.	401	Craik, C. S.	1	Gyorke, S.	391	Lehtonen, S.	619
Alcalde, J.	337	Crocker, L. S.	475			Lemoff, A.	451
Allen, J. W. A.	217	Cullinan, D. B.	187	Haataja, T. J. K.	771	Li, C.	285
Almada, L. L.	529	Cumbes, B.	791	Hageman, J.	127	Li, J.	103
Alonso, M. T.	227	Curto, J.	563	Hamao, K.	569	Li, K.	723
Altman, B. J.	285	Cutruzzolà, F.	217	Han, J.-J.	529	Li, L.	597
Andaya, V. C.	373			Han, Y.	489	Li, S.	629
Ang, E.	641	Dai, H.	103	Hannun, Y. A.	381	Lim, M. K.	641
Ankem, G.	597	D'Ambrosio, K.	157	Hanstein, S.	93	Lin, X.	711
Anthony, D. F.	755	Damborsky, J.	345	Hardie, D. G.	463	Lin, Y.-H.	529
Arcovito, A.	217	Dell'Orco, D.	441	Harvey, D.	629	Lindschau, C.	689
Arthur, J. S. C.	755	DeMars, C. J.	529	Hattori, A.	411	Liu, J.	103
Aucelli, T.	157	De Simone, G.	157	Havana, M.	619	Liu, J.	669
Aulestia, F. J.	227	Díaz, V. M.	563	Heikkilä, E.	619	Liu, P.	723
Azurmendí, H. F.	597	Douard, V.	43	Henderson, D. J. P.	755	Liu, T.	629
		Drag, M.	411	Herzog, B.	609	Lluis, C.	701
Baillie, G. S.	755	Dudeja, P. K.	313	Hill, B. G.	519	Lomberk, G. A.	529
Bal, C.	391	Dunlop, R. A.	207	Hill, E. V.	755	Louis, C. F.	711
Bal, N. C.	391	Dunn, W. B.	499	Hillwig, M. L.	589	Lovinger, D. M.	327
Balaraju, T.	391	Dütting, E.	365	Hiltunen, J. K.	771	Low, I. C. C.	545
Baleja, J. D.	187			Holthöfer, H.	619	Lowe, E. D.	55
Bardsley, M. R.	529	Eckford, P. D. W.	e1	Hosoya, H.	569	Lowry, L.	589
Barkešová, J.	701	Eide, D. J.	259	Houslay, D. M.	755	Lu, J.	577
Barnett, S. F.	475	Elgmati, K.	791	Houslay, M. D.	755	Ludeña, M. D.	337
Bartley, C.	267	Eno, C. O.	285	Howarth, M.	55	Lukyanov, K. A.	65
Bartolucci, S.	157	Enz, R.	365	Huang, B. X.	327	Lukyanov, S.	65
Bartz, R.	475	Ermakova, G. V.	65	Huang, Y.	103	Luque-Almagro, V. M.	743
Bastide, A.	499	Evans, D. E.	661	Huesgen, P. F.	733	Lurtz, M. M.	711
Baulida, J.	563	Evans, I. M.	609	Hui, X.	723		
Bear, C. E.	e1	Evnouchidou, I.	411	Hundal, H. S.	463	Ma, H. T.	17
Beck, S. C.	475			Huo, Y.	577	MacIntosh, G.	267
Beis, K.	85					MacKenzie, K. F.	755
Bell, A.	689	Fan, H.	475	Inagaki, N.	421	Macrae, K.	463
Ben-Califa, N.	509	Fatima, A.	93	Innocent, N.	475	Madison, E. L.	1
Berisio, R.	33	Fay, P. J.	187	Isaacs, N. W.	577	Malakooti, J.	313
Biden, T. J.	267	Feng, K.	93	Iwata, S.	85	Mallol, J.	701
Black, I.	577	Ferguson, S. J.	217, 743	Izquierdo, J. M.	337	Malmgren, S.	277
Boslem, E.	267	Fernandez-Zapico, M. E.	529			Manente, G. A.	679
Brady, R. L.	401	Ferraris, R. P.	43	Jadhav, V.	475	Manser, E.	355
Brainard, R. E.	519	Fogarty, S.	463	James, D. E.	539	Marasco, D.	33
Brand, M. D.	297	Fortova, A.	345	Jarkovsky, J.	345	Marchetti, R.	33
Brezovsky, J.	345	Foster, T.	629	Jena, N.	391	Marra, E.	679
Brunk, U. T.	207	Franco, R.	701	Jiang, J.	711	Mead, M. E.	589
Brunori, M.	217	Francí, C.	563	Jones, N.	619	Medler, K. F.	113
Buchanan, J.	629	Frankel, P.	609	Jones, S. P.	619	Meikle, P. J.	267
Burmann, B. M.	783	Fraternali, F.	651	Jones, W. T.	519	Meng, F.	475
Busch, A. K.	267	Frayne, J.	401	Jun, S. B.	629	Menzel, R.	689
Buttar, N. S.	529	Frey, A. G.	259	Jünemann-Ramírez, M.	327	Minagawa, S.	237
		Friedhoff, P.	93		609	Miranda, H.	733
Calver, B. L.	791	Fujii, N.	451			Mittra, S.	597
Cameron, A. D.	85	Fujimoto, S.	421	Kamijo, K.	569	Mochizuki, K.	43
Cameron, G.	401	Fuller, M.	267	Kampinga, H. H.	127	Mogg, U.	167
Campbell, D.	73	Fulton, D. B.	589	Kao, K. R.	247	Molinaro, A.	33
Canela, E. I.	701	Funk, C.	733	Kennedy, M. W. L.	247	Momose, A.	475
Cang, H.	489			Kevala, K.	327	Monincova, M.	345
Cao, D.	327	Gajda, A.	411	Kim, H. Y.	431	Moon, H.-S.	327
Capelluto, D. G. S.	597	Gan, X.	103	Kim, H.-Y.	327	Moorhead, G. B. G.	73
Carden, M. J.	499	Ganesan, S.	175	Kim, S.-I.	373	Moreno, A. C.	597
Carrascoso, I.	337	Gao, X.	723	Kimura, H.	569	Moreno, E.	701
Casadó, V.	701	García de Herreros, A.	563	Kirk, C.	629	Morita, M.	569
Castiglione, N.	217	García-Sancho, J.	227	Knyazeva, E. L.	441	Moro, L.	679
Chaikuad, A.	401	Gates, A. J.	743	Koch, K.-W.	441	Morrice, N.	73
Chan, W.	355	Georgiadou, D.	411	Koeck, T.	277	Morrone, D.	589
Chen, Y.	489, 711	Gilbert, G. E.	187	Kolpakova, T.	441	Mruk, D. D.	553
Cheng, C. Y.	553	Gill, R. K.	313	Komolov, K. E.	441	Mudbhary, R.	175
Cheong, J.	431	Gingras, A.-C.	73	Kondo, T.	569	Mukai, E.	421
Cheong, K. J.	431	Glumoff, T.	771	Kondoh, Y.	237	Mukhopadhyay, D.	529
Cherrin, C.	475	Goda, T.	43	Koner, A. L.	55	Mulder, H.	277
Chivers, C. E.	55	Goddard, A. D.	743	Kong, X.	723		
Cho, H. K.	431	Gonzalez, D. H.	143	Kosel, M.	689	Nakamoto, H.	237
Choudhury, H. G.	85	Goodacre, R.	499	Koski, M. K.	771	Nakamura, Y.	421
Chovancova, E.	345	Goodfellow, S. J.	113	Koudelakova, T.	345	Naren, A. P.	451
Chudakov, D. M.	65	Gorodnicheva, T. V.	65	Krishna, S.	545	Neumann, D.	509
Chutvirasakul, B.	597	Goudreau, B.	175	Kulkarni, A.	175	Newsholme, P.	277
Clarke, A. R.	401	Goudreault, M.	73			Ng, Y.	539
Clarke, C. J.	381	Gracia, E.	701	Lai, F. A.	791	Nicholls, D. G.	297
Cloessner, E. A.	381	Graumann, K.	661	Lam, X.	733	Nimick, M.	73

Volume Author Index (continued)

Nishi, Y.	421	Richardson, D. J.	743	She, Q.	157	Vourloumis, D.	411
Nomikos, M.	791	Riggs, D. W.	519	Sheerin, D. J.	629	Wakabayashi, H.	187
Nounesis, G.	791	Rinaldo, S.	217	Shi, G.	489	Walerych, D.	127
Novakovic, V. A.	187	Ripoll, R.	143	Shimazaki, K.-i.	73	Wallace, D. A.	755
		Ristola, M.	619	Siew, W. L.	641	Wang, K.	489
Olberding, K. E.	285	Roberts, S. G. E.	113	Sit, S.-T.	355	Wang, S.	711
O'Leary, B.	791	Roddy, P. L.	381	Smales, C. M.	499	Wang, X.	489
Oppermann, U.	401	Rodgers, K. J.	207	Solovieva, E. A.	65	Wang, Xiaoli	285
Ordog, T.	529	Rodríguez-García, A.	227	Sopariwala, D.	391	Wang, Xiaozhi	93
Osada, H.	237	Roldán, M. D.	743	Spagnuolo, J.	629	Wang, Y.	723
		Roobol, A.	499	Spègel, P.	277	Wild, W.	689
		Roobol, J.	499	Squeglia, F.	33	Willis, A. E.	499
Page, M. J.	1	Rosado, J. A.	227	Stanisavljevic, J.	563	Witting, P. K.	669
Pang, X.	577	Rösch, P.	783	Steinberg, C. E. W.	689	Wong, H.-C.	711
Papakyriakou, A.	411	Roszak, A. W.	577	Stelitano, V.	217	Woods, V. A.	629
Pedone, E.	157	Rothe, M.	689	Sticht, H.	365	Wu, D.	723
Pei, Y.	475	Rudd, S. G.	113	Stratikos, E.	411	Wu, Y.-H.	259
Pellet-Many, C.	609	Ruggiero, A.	33	Sueoka, K.	237		
Penmatsa, H.	451			Sun, F.	577, 597		
Pérez-Capote, K.	701	Sadler, K. C.	175	Sun, X.	629		
Periasamy, M.	391	Sakamoto, K.	463	Sun, Y.	489	Xu, A.	723
Permyakov, E. A.	441	Saksena, S.	313	Suzuki, T.	43	Xu, Q.	711
Permyakov, S. E.	441	Salabei, J. K.	519	Swann, K.	791		
Perthold, M.	733	Salido, G. M.	227	Sweeney, G.	723		
Pervaiz, S.	545	Salvesen, G. S.	411	Swevers, L.	411		
Peters, R. J.	589	Sam, K. A.	217				
Pfuhl, M.	651	Sang, J.	489	Tahara, Y.	421	Yan, B.	451
Philippov, P. P.	441	Sansbury, B. E.	519	Tai, T. H.	373	Yang, J. J.	711
Pirone, L.	157	Sasaki, M.	421	Takahashi, M.	569	Yang, J.	103
Plaxton, W. C.	791	Sato, H.	421	Takemiya, A.	73	Yang, K.	489
Poetzsch, A.	441	Sato, Y.	421	Tan, S.	539	Yi, J.	489
Pompon, D.	197	Scheckenhofer, U.	783	Tay, Y. C.	641	Yosha, L.	509
Poon, R. Y. C.	17	Schröder, S.	651	Tellers, D. M.	475	Yu, H.	103
Poreba, M.	411	Schröder-Kress, N.	365	Templeton, G. W.	73	Yue, W. W.	401
Porta-de-la-Riva, M.	563	Schubert, S.	93	Teng, M.	723		
Preston, A. M.	267	Schuhmann, H.	167	Theodoridou, M.	791	Zachary, I. C.	609
Punchihewa, C.	451	Schuhmann, H.	733	Tien, A. L.	175	Zagaynova, E. V.	65
		Schunck, W.-H.	689	Toska, E.	113	Zaraisky, A. G.	65
		Schweimer, K.	783	Truan, G.	197	Zeef, L. A. H.	113
Qian, F.	651	Scott, D.	651	Tsuji, S.	529	Zernii, E. Y.	441
Qian, X.	93	Senbanerjee, S.	175			Zervoudi, E.	411
Quan, X.	651	Senin, I. I.	441	Uberti Manassero, N. G.	143	Zhai, Y.	577
		Sepp-Lorenzino, L.	475	Ukomadu, C.	175	Zhang, J.	475
Rakonjac, J.	629	Serebrovskaya, E. O.	65	Urrutia, R.	529	Zhang, K.	577
Rao, S. K.	791	Shafqat, N.	401			Zhang, W.	451
Rathmell, J. C.	285	Shaikh, S.	391			Zhang, X.	577
Ravid, O.	509	Shan, Y.	93	Vacca, R. A.	679	Zhao, G.	285
Rebello, M. R.	113	Shanu, A.	669	Valenti, D.	679	Zhao, J.	641
Redondo, P. C.	227	Sharon, A.	391	van Waarde, M. A.	127	Zhou, J.	489
Ren, A.	451	Sharonov, G. V.	65	Veenstra, R. D.	711	Zhou, Q.	577
Reyes, R.	337	Sharoyko, V. V.	277	Viola, I. L.	143	Zhou, Y.	711
						Zhu, Y.	285, 577
						Zylicz, A.	127