

Editorial Board

Chair

D. Carling • London

Vice Chair, The Americas

G. Salvesen • La Jolla, CA

Vice Chair, Asia-Pacific

T. Xu • Beijing

Vice Chair, Europe

D. R. Alessi • Dundee

Reviews Editor

G. Salvesen • La Jolla, CA

Deputy Chairs

J. F. Cáceres • Edinburgh**S. Huber** • Urbana, IL**J. E. Ladbury** • Leeds**M. A. Lemmon** • Philadelphia, PA**C. MacKintosh** • Dundee**M. Murphy** • Cambridge**S. Roberts** • Bristol**M. A. Schwartz** • New Haven, CT**G. R. Steinberg** • Hamilton, ON**D. Tosh** • Bath**M. Uesugi** • Kyoto**D. M. F. van Aalten** • Dundee**B. Vanhaesebroeck** • London**H. M. Wallace** • Aberdeen**M. F. White** • St Andrews**A. Xu** • Hong Kong**C. Zurzolo** • Paris

Executive Editor

C. L. Curtis

Publishing Operations Manager

M. D. Cunningham

Production Editor

R. B. Etherington

Staff Editor

J. W. Mockridge

Administrative Editor, US Office

S. Schendel

Administrative Editor, China Office

L. Huo

- J. C. Adams (Bristol)
 S. M. Assmann (University Park, PA)
 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)
 L. H. Boise (Atlanta, GA)
 J. Bolaños (Salamanca)
 A. Bowie (Dublin)
 S. Bray (Cambridge)
 S. Bröer (Canberra)
 P. S. Brookes (Rochester, NY)
 D. Burger (Geneva)
 R. A. Casero, Jr (Baltimore, MD)
 L. Chernomordik (Bethesda, MD)
 A. C. Clark (Raleigh, NC)
 M. J. Davies (Sydney)
 B. Davis (Oxford)
 C. L. Day (Dunedin)
 L. A. Devi (New York, NY)
 C. Dickey (Tampa, FL)
 I. Dikic (Frankfurt)
 J. Endicott (Newcastle upon Tyne)
 S. Flitsch (Manchester)
 F. Foufelle (Paris)
 C. Frezza (Cambridge)
 M. Hampton (Otago)
 A. D. Hanson (Gainesville, FL)
 J. A. Hardy (Amherst, MA)
 P. Hawkins (Cambridge)
- P. Hedden (Harpenden)
 N. Hogg (Milwaukee, WI)
 J. M. Horowitz (Raleigh, NC)
 E. Ikonen (Helsinki)
 A. Imberty (Grenoble)
 D. A. Jans (Monash)
 P. A. Jeggo (Brighton)
 J. Jez (St Louis, MO)
 S. Kim (Seoul)
 Z. Knight (New York, NY)
 D. Komander (Cambridge)
 D. W. Laird (London, ON)
 S. P. Lees-Miller (Calgary, AB)
 J. Leipper (London)
 S. Ley (London)
 M. Lowe (Manchester)
 K. Lynch (Philadelphia, PA)
 S. Mayor (Bangalore)
 N. Q. McDonald (London)
 M. McManus (Palmerston North)
 G. Melino (Leicester)
 T. Miller (Norwich)
 E. T. Morgan (Atlanta, GA)
 S. J. Morley (Brighton)
 M. Muckenthaler (Heidelberg)
 J. H. Naismith (St Andrews)
 A. R. Nebreda (Barcelona)
 W. Ogawa (Kobe)
 M. Okada (Osaka)
 B. Payrastre (Toulouse)
 D. Pei (Columbus, OH)
 P. Pilch (Boston, MA)
- W. C. Plaxton (Kingston, ON)
 S. Ponnambalam (Leeds)
 R. Y. Poon (Hong Kong)
 B. V. L. Potter (Bath)
 C. G. Proud (Southampton)
 K. Rittinger (London)
 M. F. Roberts (Boston, MA)
 P. Saftig (Kiel)
 K. Sakamoto (Lausanne)
 J. M. Sanchez-Ruiz (Granada)
 F. Sargent (Dundee)
 K. Schumacher (Heidelberg)
 P. T. Schumacker (Chicago, IL)
 L. C. Serpell (Brighton)
 R. J. Shaw (La Jolla, CA)
 H. Shimano (Tsukuba City)
 J. Slack (Minneapolis, MN)
 S. Spiegel (Richmond, VA)
 W. M. Stark (Glasgow)
 S. Teichmann (Cambridge)
 V. Tergaonkar (Singapore)
 K. Tokatlidis (Glasgow)
 C. Tournier (Manchester)
 M. Uesugi (Kyoto)
 H. D. Ulrich (Mainz)
 S. Urbé (Liverpool)
 H. J. Vogel (Calgary, AB)
 M.-W. Wang (Shanghai)
 S. Whitney (Canberra)
 D. Wu (Guangzhou)
 I. Zachary (London)



- Journal compilation © 2015 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 Air Business Ltd, c/o Worldnet Shipping Inc., 156–15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, U.S.A.
- **Subscriptions department:** Portland Customer Services, Third Floor, Charles Darwin House, 12 Roger Street, London WC1N 2JU, 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 form 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 0264-6021/2015/\$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 Jamaica, NY 11431
- **Postmaster:** send address corrections to *Biochemical Journal*, c/o Air Business Ltd, c/o Worldnet Shipping Inc., 156–15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, U.S.A.
- **Cover design:** Angie Moyes (www.fuz.co.uk).
- **Cover image credits:** M. Sharon Stack, University of Missouri; Carmen A. Mannella, Research and Technology Wadsworth Center, Albany, NY; Department of Microbiology, University of Leeds; Jan A. Miernyk, University of Missouri; G. P. Côté, Kingston, ON; G. Salvesen, La Jolla; Dr Gordon Beakes, Newcastle University.

Instructions to Authors

● 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 refereed 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 PubMed.

● Open access option – Opt2Pay Choose to make your paper open access. 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 2JU, 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 charge is £300 to cover all colour figures in the paper.

● 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 2015 volumes 465–476 (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, PubMed and Science Citation Index.

● Subscription rates Institutional subscription rates for 2015 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) Print and online	US\$5590	£3140	€4710
Online only	US\$4470	£2510	€3770
Single issues (print only)	US\$246	£150	€183

Overseas rates include airfreight delivery. Airspeeded delivery is available at an additional cost of £112.35/\$199/€168.

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
Third Floor, Charles Darwin House,
12 Roger Street, London WC1N 2JU, U.K.
(telephone 020 76852444; fax 020 76852468;
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

Platelet Rho GTPases – a focus on novel players, roles and relationships

Published as BJ Immediate Publication 18 December 2014,
doi:10.1042/BJ20141404

R. Goggs, C.M. Williams, H. Mellor and
A.W. Poole

431–442

Mitochondrial pyruvate transport: a historical perspective and future research directions

Published as BJ Immediate Publication 6 March 2015,
doi:10.1042/BJ20141171

K.S. McCommis and B.N. Finck

443–454

Research Papers

Differential calcium handling by the *cis* and *trans* regions of the Golgi apparatus

Published as BJ Immediate Publication 16 December 2014,
doi:10.1042/BJ20141358

F.J. Aulestia, M.T. Alonso and J. García-Sancho

455–465

The insulinotropic effect of insulin-like peptide 5 *in vitro* and *in vivo*

Published as BJ Immediate Publication 17 December 2014,
doi:10.1042/BJ20141113

X. Luo, T. Li, Y. Zhu, Y. Dai, J. Zhao, Z.-Y. Guo and
M.-W. Wang

467–473

Unravelling the pivotal role of Alix in MVB sorting and silencing of the activated EGFR

Published as BJ Immediate Publication 16 December 2014,
doi:10.1042/BJ20141156

S. Sun, X. Zhou, W. Zhang, G.E. Gallick and J. Kuang

475–487

Ubiquitin C-terminal hydrolases cleave isopeptide- and peptide-linked ubiquitin from structured proteins but do not edit ubiquitin homopolymers

Published as BJ Immediate Publication 9 December 2014,
doi:10.1042/BJ20141349

J.S. Bett, M.S. Ritorto, R. Ewan, E.G. Jaffray, S. Virdee,
J.W. Chin, A. Knebel, T. Kurz, M. Trost, M.H. Tatham and
R.T. Hay

489–498

Myc-interacting zinc-finger protein 1 positively regulates Wnt signalling by protecting Dishevelled from Dapper1-mediated degradation

Published as BJ Immediate Publication 5 January 2015,
doi:10.1042/BJ20141143

Y. Huang, P. Wang, H. Chen, Y. Ding and Y.-G. Chen

499–509

STAT2/IRF9 directs a prolonged ISGF3-like transcriptional response and antiviral activity in the absence of STAT1

Published as BJ Immediate Publication 7 January 2015,
doi:10.1042/BJ20140644

K. Blaszczyk, A. Olejnik, H. Nowicka, L. Ozgyn,
Y.-L. Chen, S. Chmielewski, K. Kostyrko, J. Wesoly,
B.L. Balint, C.-K. Lee and H.A. Bluyssen

511–524

$\alpha\beta\beta$ integrin is required for TGF β 1-mediated matrix metalloproteinase2 expression

Published as BJ Immediate Publication 6 January 2015,
doi:10.1042/BJ20140698

A. Dutta, J. Li, C. Fedele, A. Sayeed, A. Singh,
S.M. Violette, T.D. Manes and L.R. Languino

525–536

TRPM2-mediated intracellular Zn²⁺ release triggers pancreatic β -cell death

Published as BJ Immediate Publication 6 January 2015,
doi:10.1042/BJ20140747

P.T. Manna, T.S. Munsey, N. Abuarab, F. Li, A. Asipu,
G. Howell, A. Sedo, W. Yang, J. Naylor, D.J. Beech,
L.-H. Jiang and A. Sivaprasadarao

537–546

Gcn1 contacts the small ribosomal protein Rps10, which is required for full activation of the protein kinase Gcn2

Published as BJ Immediate Publication 1 December 2014,
doi:10.1042/BJ20140782

S.J. Lee, M.J. Swanson and E. Sattlegger

547–559

ClpB dynamics is driven by its ATPase cycle and regulated by the DnaK system and substrate proteins

Published as BJ Immediate Publication 5 January 2015,
doi:10.1042/BJ20141390

A. Aguado, J.A. Fernández-Higuero, Y. Cabrera, F. Moro
and A. Muga

561–570

Contents

Degradation of gap junction connexins is regulated by the interaction with Cx43-interacting protein of 75 kDa (CIP75)	J.L. Kopanic, B. Schlingmann, M. Koval, A.F. Lau, P.L. Sorgen and V.F. Su	571–585
<i>Published as BJ Immediate Publication 12 January 2015, doi:10.1042/BJ20141042</i>		
O-GlcNAcylation of co-activator-associated arginine methyltransferase 1 regulates its protein substrate specificity	P. Charoensuksai, P. Kuhn, L. Wang, N. Sherer and W. Xu	587–599
<i>Published as BJ Immediate Publication 13 January 2015, doi:10.1042/BJ20141072</i>		
Alteration of structure and function of ATP synthase and cytochrome <i>c</i> oxidase by lack of F ₀ -a and Cox3 subunits caused by mitochondrial DNA 9205delTA mutation	K. Hejzlarová, V. Kaplanová, H. Nůsková, N. Kovářová, P. Ješina, Z. Drahota, T. Mráček, S. Seneca and J. Houštěk	601–611
<i>Published as BJ Immediate Publication 15 January 2015, doi:10.1042/BJ20141462</i>		
Protein stability versus function: effects of destabilizing missense mutations on <i>BRCA1</i> DNA repair activity	D.C.A. Gaboriau, P.J.E. Rowling, C.G. Morrison and L.S. Itzhaki	613–624
<i>Published on the Internet 6 March 2015, doi:10.1042/BJ20141077</i>		
The VPS-20 subunit of the endosomal sorting complex ESCRT-III exhibits an open conformation in the absence of upstream activation	A.L. Schuh, M. Hanna, K. Quinney, L. Wang, A. Sarkeshik, J.R. Yates III and A. Audhya	625–637
<i>Published as BJ Immediate Publication 15 January 2015, doi:10.1042/BJ20141202</i>		

Index of Authors

	PAGE		PAGE		PAGE		PAGE
Abuarab, N.	537	Gallick, G. E.	475	Li, J.	525	Sedo, A.	537
Aguado, A.	561	García-Sancho, J.	455	Li, T.	467	Seneca, S.	601
Alonso, M. T.	455	Goggs, R.	431	Luo, X.	467	Sherer, N.	587
Asipu, A.	537	Guo, Z.-Y.	467			Singh, A.	525
Audhya, A.	625			Manes, T. D.	525	Sivaprasadarao, A.	537
Aulestia, F. J.	455	Hanna, M.	625	Manna, P. T.	537	Sorgen, P. L.	571
Balint, B. L.	511	Hay, R. T.	489	McCommis, K. S.	443	Su, V. F.	571
Beech, D. J.	537	Hejzlarová, K.	601	Mellor, H.	431	Sun, S.	475
Bett, J. S.	489	Houštěk, J.	601	Moro, F.	561	Swanson, M. J.	547
Blaszczyk, K.	511	Howell, G.	537	Morrison, C. G.	613		
Bluyssen, H. A.	511	Huang, Y.	499	Mráček, T.	601	Tatham, M. H.	489
Cabrera, Y.	561	Itzhaki, L. S.	613	Muga, A.	561	Trost, M.	489
Charoensuksai, P.	587	Jaffray, E. G.	489	Munsey, T. S.	537	Violette, S. M.	525
Chen, H.	499	Ješina, P.	601	Naylor, J.	537	Virdee, S.	489
Chen, Y.-G.	499	Jiang, L.-H.	537	Nowicka, H.	511		
Chen, Y.-L.	511	Kaplanová, V.	601	Nůsková, H.	601	Wang, L.	587
Chin, J. W.	489	Knebel, A.	489	Olejník, A.	511	Wang, L.	625
Chmielewski, S.	511	Kopanic, J. L.	571	Ozgyin, L.	511	Wang, M.-W.	467
Dai, Y.	467	Kostyrko, K.	511	Poole, A. W.	431	Wang, P.	499
Ding, Y.	499	Koval, M.	571	Quinney, K.	625	Wesoly, J.	511
Drahota, Z.	601	Kovářová, N.	601	Ritorto, M. S.	489	Williams, C. M.	431
Dutta, A.	525	Kuang, J.	475	Rowling, P. J. E.	613	Xu, W.	587
Ewan, R.	489	Kuhn, P.	587			Yang, W.	537
		Kurz, T.	489			Yates III, J. R.	625
Fedele, C.	525	Languino, L. R.	525	Sarkeshik, A.	625		
Fernández-Higuero, J. A.	561	Lau, A. F.	571	Sattlegger, E.	547	Zhang, W.	475
Finck, B. N.	443	Lee, C.-K.	511	Sayeed, A.	525	Zhao, J.	467
Gaboriau, D. C.	613	Lee, S. J.	547	Schlingmann, B.	571	Zhou, X.	475
		Li, F.	537	Schuh, A. L.	625	Zhu, Y.	467

Index of Authors

Volume 466, 2015

PAGE	Eyers, P. A.	PAGE	Keshwani, M. M.	PAGE	Mulder, F. A. A.	PAGE
537		201	Keshwani, M. M.	311	Mulder, F. A. A.	299
Adams, J. A.		311	Khilwani, B.	147	Munsey, T. S.	537
Aguado, A.	561	Fattet, L.	311	Kim, H.-H.	115	
Ali, E. S.	379	Fedele, C.	525	Kim, S. Y.	115	
Alonso, M. T.	455	Feil, R.	283	Kirkpatrick, D. S.	45	Nancolas, B.
Andersen, J. N.	337	Ferguson, N.	55	Knebel, A.	489	Nanjundan, M.
Andreasen, P. A.	299	Fernández-Higuero, J. A.	561	Koo, S.-H.	115	Naylor, J.
Asipu, A.	537	Figueroa, C. M.	283	Kopanic, J. L.	571	Neumaier, I.
Aubol, B. E.	311	Finck, B. N.	443	Kostyko, K.	511	Nowakowski, M.
Audhya, A.	625	Flemming, A. J.	37	Koval, M.	571	Nowicka, H.
Aulestia, F. J.	455	Frelin, O.	137	Kovářová, N.	601	Núsková, H.
Bailey, F. P.	201	Fu, J.	189	Koźmiński, W.	299	
Bakalarski, C. E.	45	Fu, X.-D.	311	Krishnakumar, A.	55	Olejnik, A.
Balint, B. L.	511	Fuentes, G.	291	Kropp, J.	85	Oliver, J. A.
Baratto, M. Camilla	253	Gaboriau, D. C.	613	Kuang, J.	475	Ozgyin, L.
Bardenhagen, J. P.	337	Gallick, G. E.	475	Kuhn, P.	587	
Barratt, G. J.	379	García-Sancho, J.	455	Kurz, T.	489	Palmer, W. S.
Basta, B.	55	Geck Do, M. K.	337	Kyaw, Y. Y.	115	Palomowski-Wolfe, A.
Bauckman, K.	401	Geng, L.	243	Ladbury, J. E.	337	Pan, X.
Beech, D. J.	537	Geschwindner, S.	55	Languino, L. R.	525	Parsonage, D.
Belmont, L. D.	45	Giudici, M.-L.	359	Lau, A. F.	571	Petersen, S. V.
Bentzinger, C. F.	123	Godfrey, R. E.	323	Lee IV, G. R.	337	Petrocchi, A.
Bergamelli, L.	123	Goggs, R.	431	Lee, C.-K.	511	Pogni, R.
Bett, J. S.	489	Goncharov, T.	45	Lee, S. J.	547	Polesskaya, A.
Bhandari, R.	105	Gregory Iii, J. F.	137	Leo, E.	337	Poncet-Montange, G.
Bianchi, A.	55	Grove, A.	347	Leonard, P. G.	337	Pontis, J.
Biener, G.	263	Guallar, V.	253	Li, F.	537	Poole, A. W.
Blaszczyk, K.	511	Guo, Z.-Y.	467	Li, G.	369	Pullen, T. J.
Bluyssen, H. A.	511			Li, H.-H.	189	Pumroy, R. A.
Bonala, S.	201			Li, J.	525	
Brazil, D. P.	55	Halestrap, A. P.	177	Li, M.	189	Qian, X.
Brimijoin, S.	243	Hall, M. N.	123	Li, M.	77	Qin, J.
Brooks, A. J.	1	Haller, E.	401	Li, T.	467	Quiu, J.
Browning, D. F.	323	Han, W.	291	Linde, D.	253	Quinney, K.
Burke, J. E.	359	Hancke, J.	415	Lindsay, C. B.	415	
Busby, S. J. W.	323	Hanna, M.	625	Liu, N.-N.	189	Radda, G. K.
Bustos, D.	45	Hanson, A. D.	137	Lokireddy, S.	201	Raicu, V.
Byrne, D. P.	201	Harel-Bellan, A.	85	Lopez, R. J.	123	Rao, J.
		Hasnain, G.	137	Lowther, W. Todd	273	Rice, J.
Cabrera, Y.	561	Hay, R. T.	489	Lu, L.	369	Ritoro, M. S.
Calderon, J. C.	123	He, X.	391	Lucas, F.	253	Rocca, J. R.
Caputo, C.	123	Hejzlarová, K.	601	Lunn, J. E.	283	Rockfield, S.
Cardozo, M. G.	337	Henderson, I. R.	323	Luo, X.	467	Rodewald, F.
Cañellas, M.	253	Henry, C. S.	137			Roje, S.
Charoensukhai, P.	587	Hodson, D. J.	203			Romanino, K.
Chattopadhyay, K.	147	Holmes, R. P.	273	Ma, C.-T.	311	Romero, A.
Chen, H.	499	Hong, Z.	299	Ma, W.	291	Rosenzweig, D.
Chen, X.	243	Hou, S.	243	Maj, M.	123	Rossiter, A. E.
Chen, Y.-G.	499	Hou, X.-M.	189	Maloney, D. J.	359	Rowling, P. J. E.
Chen, Y.-L.	511	Houšek, J.	601	Manes, T. D.	525	Ruiz-Dueñas, F. J.
Cheong, J.	115	Howell, G.	537	Manna, P. T.	537	Ruiz-Rivera, A.
Chin, J. W.	489	Hua, J.	379	Manorama, R.	105	Ruoho, A.
Chmielewski, S.	511	Huang, H.	347	Martin, A. M.	379	Rutter, G. A.
Cho, H. K.	115	Huang, H.	391	Martin, F.	55	Rychkov, G. Y.
Church, R. H.	55	Huang, L.	137	Martinez-Sánchez, A.	203	Rüegg, M. A.
Cingolani, G.	13	Huang, X.	243	Martínez, A. T.	253	
Clarke, J. H.	359	Huang, Y.	499	Marugan, J.	359	
Cohen, P. T. W.	163			Masselot, A.	45	Sarkeshik, A.
Connolly, J. A.	323	Inestrosa, N. C.	415	Matheou, C. J.	233	Sattlegger, E.
Coscolín, C.	253	Irvine, R. F.	359	Mavlyutov, T.	263	Sayeed, A.
Crow, Y. J.	69	Itzhaki, L. S.	613	McCommis, K. S.	443	Schiefer, A.
		Izrael-Tomasevic, A.	45	McFarlane, C.	201	Schlingmann, B.
Dai, Y.	467			McLuskey, K.	219	Schuh, A. L.
De Crécy-Lagard, V.	137	Jacob, W.	163	Mcskimming, D.	201	Schüller, A.
Degerny, C.	85	Jaffray, E. G.	489	Medrano, F. Javier	253	Schwefel, D.
Delbono, O.	123	Jeffryes, J. G.	137	Meijas-Reyes, C.	415	Scrimgeour, N.
Delorge, I.	283	Jennings, P. A.	311	Mellor, H.	431	Sedo, A.
Ding, Y.	499	Jensen, J. K.	299	Melo, F.	415	Sekulic-Jablanovic, M.
Dou, S.-X.	189	Ješina, P.	601	Meneely, J.	55	Seneca, S.
Drahota, Z.	601	Jiang, L.-H.	537	Mishra, A. K.	263	Sessions, R. B.
Duan, X.-L.	189	Johnson, L. C.	273	Monaghan, S.	55	Sharma, M.
Duce, S. L.	163	Jones, L. M.	37	Moro, F.	561	Sherer, N.
Dutta, A.	525	Jones, P.	337	Morozova, N.	85	Shi, X.
		Jönsson, T. J.	273	Morrison, C. G.	613	Shi, X.
Edison, A. S.	137			Morrissey, C.	69	Shi, Y.
Elliott, C.	55	Kambadur, R.	201	Mosca, B.	123	Singh, A.
Ennis-Adeniran, V.	69	Kannan, N.	201	Mottram, J. C.	219	Singh, D. R.
Ewan, R.	489	Kaplanová, V.	601	Mráček, T.	601	Sinicropi, A.
				Muga, A.	561	Sivapragasam, S.
				Mukhopadhyaya, A.	147	Sivaprasadarao, A.

Volume Author Index (continued)

PAGE	PAGE	PAGE	PAGE				
Skerra, A. Sorgen, P. L. Spronk, C. Strömstedt, M. Su, V. F. Summitt, C. B. Sun, S. Swanson, M. J. Sze, S. K. Sáez-Jiménez, V.	95 571 299 55 571 273 475 547 201 253	Treves, S. Treves, S. Trost, M. Unnikannan, C. P. Urbanek, A. Ureta, R. C. Urwin, P. E. Van Dijck, P. Varfolomeev, E. Verma, C. Viles, J. H. Violette, S. M. Virdee, S.	123 29 489 105 55 415 37 283 45 291 233 525 489	Wang, P. Wang, P. Wang, X. Waters, M. J. Webb, M. Wei, M. Wesoly, J. Wijsoma, I. W. Williams, C. M. Williams, R. L. Wilson, C. H. Win, A. A. Wu, W.-Q.	369 499 369 1 69 201 511 201 431 359 379 115 189	Yates III, J. R. Younan, N. D. Yu, K. Yurgel, S. N. Zang, J. Zhan, C.-G. Zhan, Y. Zhang, C. Zhang, F. Zhang, W. Zhao, J. Zheng, F. Zheng, X. Zhou, N. Zhou, X. Zhu, C. Zhu, Y. Ziemak, M. J. Zorzato, F. Zorzato, F.	625 233 45 137 391 243 337 369 369 475 467 243 243 391 475 391 467 137 123 29
Tallis, G. A. Tang, L. Tapia-Rojas, C. Taran, N. Tatham, M. H. Taylor, I. A. Thampatty, S. R. Thota, S. G. Tonggu, L.	379 77 415 401 489 69 105 105 77	Vucic, D. Vázquez-Martin, C. Wang, B. Wang, L. Wang, L. Wang, L. Yang, H. Yang, J. Yang, W.	45 163 137 587 625 77 467	Xi, X.-G. Xu, W. Xue, L. Yang, H. Yang, J. Yang, W.	189 587 243 391 263 537	Zhou, N. Zhou, X. Zhu, C. Zhu, Y. Ziemak, M. J. Zorzato, F. Zorzato, F.	391 475 391 467 137 123 29