

● **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 Preliminary, confirmatory or inconclusive work will not be published.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has been approved by all the named authors, that all persons entitled to authorship have been so named, that it reports unpublished work that is not under consideration elsewhere, and that if the paper is accepted for publication the authors will transfer to the Biochemical Society the copyright in the paper, which will then not be published elsewhere in the same form, in any language, without the consent of the Society.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 PubMed.

● **Open access option – Opt2Pay** Choose to make your paper open access. 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 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](mailto: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](mailto: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](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 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](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)	US\$5590	£3140	€4710
Print and online	US\$4470	£2510	€3770
Online only	US\$246	£150	€183
Single issues (print only)			

Overseas rates include airfreight delivery. Airtpeeded 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](mailto:sales@portland-services.com)).

● **Advertising** Enquiries about advertising should be addressed to [marketing@portlandpress.com](mailto: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****How cancer cells hijack DNA double-strand break repair pathways to gain genomic instability**

Version of Record published 21 September 2015,  
doi:10.1042/BJ20150582

P.A. Jeggo and M. Löbrich

1–11

**Research Papers**

The nucleoid-associated protein HU enhances 8-oxoguanine base excision by the formamidopyrimidine-DNA glycosylase

Accepted Manuscript online 10 July 2015,  
doi:10.1042/BJ20150387

R. Le Meur, F. Culard, V. Nadan, S. Goffinont, F. Coste, M. Guerin, K. Loth, C. Landon and B. Castaing

13–23

DNA cytosine and methylcytosine deamination by APOBEC3B: enhancing methylcytosine deamination by engineering APOBEC3B

Accepted Manuscript online 20 July 2015,  
doi:10.1042/BJ20150382

Y. Fu, F. Ito, G. Zhang, B. Fernandez, H. Yang and X.S. Chen

25–35

Akt kinase C-terminal modifications control activation loop dephosphorylation and enhance insulin response

Accepted Manuscript online 22 July 2015,  
doi:10.1042/BJ20150325

T.O. Chan, J. Zhang, B.C. Tiegs, B. Blumhof, L. Yan, N. Keny, M. Penny, X. Li, J.M. Pascal, R.S. Armen, U. Rodeck and R.B. Penn

37–51

Inhibition of HIV-1 gp41 expression with hammerhead ribozymes

Accepted Manuscript online 24 July 2015,  
doi:10.1042/BJ20150398

A. Fedoruk-Wyszomirska, M. Szymański, P. Głodowicz, M. Gabryelska, E. Wyszko, W.J. Estrin and J. Barciszewski

53–66

c-Abl-mediated tyrosine phosphorylation of JunB is required for Adriamycin-induced expression of p21

Accepted Manuscript online 27 July 2015,  
doi:10.1042/BJ20150372

N. Yamaguchi, R. Yuki, S. Kubota, K. Aoyama, T. Kuga, Y. Hashimoto, T. Tomonaga and N. Yamaguchi

67–77

A non-canonical ESCRT pathway, including histidine domain phosphotyrosine phosphatase (HD-PTP), is used for down-regulation of virally ubiquitinated MHC class I

Accepted Manuscript online 28 July 2015,  
doi:10.1042/BJ20150336

M.D.J. Parkinson, S.C. Piper, N.A. Bright, J.L. Evans, J.M. Boname, K. Bowers, P.J. Lehner and J.P. Luzio

79–88

Dengue NS3, an RNAi suppressor, modulates the human miRNA pathways through its interacting partner

Accepted Manuscript online 28 July 2015,  
doi:10.1042/BJ20150445

P.K. Kakumani, K.S. Rajgokul, S.S. Ponia, I. Kaur, S. Mahanty, G.R. Medigeshi, A.C. Banerjee, A.P. Chopra, P. Malhotra, S.K. Mukherjee and R.K. Bhatnagar

89–99

Unliganded EphA3 dimerization promoted by the SAM domain

Accepted Manuscript online 31 July 2015,  
doi:10.1042/BJ20150433

D.R. Singh, Q. Cao, C. King, M. Salotto, F. Ahmed, X.Y. Zhou, E.B. Pasquale and K. Hristova

101–109

Calcium modulation of exocytosis-linked plasma membrane potential oscillations in INS-1 832/13 cells

Version of Record published 21 September 2015,  
doi:10.1042/BJ20150616

A.A. Gerencser, H. Mulder and D.G. Nicholls

111–122

Differential reduction in cardiac and liver monolysocardiolipin acyltransferase-1 and reduction in cardiac and liver tetralinoleoyl-cardiolipin in the  $\alpha$ -subunit of trifunctional protein heterozygous knockout mice

Accepted Manuscript online 4 August 2015,  
doi:10.1042/BJ20150648

E.M. Mejia, J.A. Ibdah, G.C. Sparagna and G.M. Hatch

123–129

# Index of Authors

	PAGE		PAGE		PAGE		PAGE
Ahmed, F.	101	Fernandez, B.	25	Landon, C.	13	Ponia, S. S.	89
Aoyama, K.	67	Fu, Y.	25	Lehner, P. J.	79		
Armen, R. S.	37			Le Meur, R.	13	Rajgokul, K. S.	89
		Gabryelska, M.	53	Li, X.	37	Rodeck, U.	37
Banerjea, A. C.	89	Gerencser, A. A.	111	Loth, K.	13		
Barciszewski, J.	53	Głodowicz, P.	53	Löbrich, M.	1	Salotto, M.	101
Bhatnagar, R. K.	89	Goffinont, S.	13	Luzio, J. P.	79	Singh, D. R.	101
Blumhof, B.	37	Guerin, M.	13			Sparagna, G. C.	123
Boname, J. M.	79			Mahanty, S.	89	Szymański, M.	53
Bowers, K.	79	Hashimoto, Y.	67	Malhotra, P.	89		
Bright, N. A.	79	Hatch, G. M.	123	Medigeshi, G. R.	89	Tiegs, B. C.	37
		Hristova, K.	101	Mejia, E. M.	123	Tomonaga, T.	67
Cao, Q.	101			Mukherjee, S. K.	89		
Castaing, B.	13	Ibdah, J. A.	123	Mulder, H.	111	Wyszko, E.	53
Chan, T. O.	37	Ito, F.	25				
Chen, X. S.	25			Nadan, V.	13	Yamaguchi, N.	67
Chopra, A. P.	89	Jeggo, P. A.	1	Nicholls, D. G.	111	Yamaguchi, N.	67
Coste, F.	13					Yan, L.	37
Culard, F.	13	Kakumani, P. K.	89	Parkinson, M. D. J.	79	Yang, H.	25
		Kaur, I.	89	Pascal, J. M.	37	Yuki, R.	67
Estrin, W. J.	53	Keny, N.	37	Pasquale, E. B.	101		
Evans, J. L.	79	King, C.	101	Penn, R. B.	37	Zhang, G.	25
		Kubota, S.	67	Penny, M.	37	Zhang, J.	37
Fedoruk-Wyszomirska, A.	53	Kuga, T.	67	Piper, S. C.	79	Zhou, X. Y.	101