Instructions to Authors

- General policy The Biochemical Journal publishes papers in English in all fields of biochemical and cellular and molecular biology so that they make a significant 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 aim to develop 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 Preliminary, confirmatory or inconclusive work will not be published.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 an unreferred 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that it has been approved by all authors, that all persons entitled to authorship have been so named, that it reports unpublished work that is not under consideration elsewhere, and that if the paper is published, the authors will transfer to the Biochemical Society the copyright in the paper, which will then not be published elsewhere in the same form, in any language, without the consent of the Society.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 paper and it is the Journal’s policy to reject papers that have already been published or are not under review elsewhere.

- 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. 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 A reference to ‘unpublished work’ must be accompanied by the names of all persons concerned; a reference to a ‘personal communication’ must be supported by written permission for the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.

- 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 +1 858 713 6283; fax +1 858 713 6284; e-mail 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, 59 Portland Place, London W1B 1WJ, U.K. (telephone +44 20 7673 5873; fax +44 20 7223 1136; e-mail editorial@portlandpress.com).

- Colour figures The first colour figure is published at no charge provided that one author 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. Subsequent colour figures in the same paper cost £300 each.

- Multimedia adjuncts The Biochemical Journal Online is now able to offer authors the opportunity to enhance their papers with multimedia adjuncts (e.g. time-lapse movies, three-dimensional structures). 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 and PDB for structures. There is no extra charge associated with the publication of a multimedia adjunct online.

Other information

The Biochemical Journal is published and distributed by Portland Press Ltd on behalf of the Biochemical Society. It is published twice monthly by Portland Press Ltd, 225 Old Brompton Road, London SW3 2BB, U.K. (telephone +44 20 7637 5873; fax +44 20 7637 5874; e-mail editorial@portlandpress.com).

- Subscription Department Portland Customer Services P.O. Box 32, Commerce Way Colchester CO2 8BJ, Essex, U.K. (telephone 01206 799331; fax 01206- 799331; e-mail sales@portland-services.com).

- Advertising Enquiries about advertising should be addressed to Mark White or Philip Northcott, PRN Media Sales Ltd., Suite 209, Portland House, Wellington House, Butt Road, Colchester CO3 3DA, U.K.; tel: 01206 767797; fax: 01206 767532; e-mail: sales@prnmediasales. co.uk; ISDN: 01376 562673.

- Microfiche and back issues Volumes 102–336 of the Biochemical Journal are available on microfiche. Back issues are also available on microfiche. Further details may be obtained from the address below.

- Subscription Department Portland Customer Services P.O. Box 32, Commerce Way Colchester CO2 8BJ, Essex, U.K. (telephone 01206 799331; fax 01206- 799331; e-mail sales@portland-services.com).

- Advertising Enquiries about advertising should be addressed to Mark White or Philip Northcott, PRN Media Sales Ltd., Suite 209, Portland House, Wellington House, Butt Road, Colchester CO3 3DA, U.K.; tel: 01206 767797; fax: 01206 767532; e-mail: sales@prnmediasales. co.uk; ISDN: 01376 562673.
Reviews

Structure and function of efflux pumps that confer resistance to drugs
M.I. Borges-Walmsley, K. McKeegan and A.R. Walmsley
Published as BJ Immediate Publication 18 September 2003,
DOI 10.1042/BJ20030957
313–338

Deglycosylation of glycoproteins with trifluoromethanesulphonic acid: elucidation of molecular structure and function
A.S.B. Edge
Published as BJ Immediate Publication 15 September 2003,
DOI 10.1042/BJ20030673
339–350

Online Commentaries

Are prenyl groups on proteins sticky fingers or greasy handles?
A.I. Magee and M.C. Seabra
Published on the Internet 24 November 2003, DOI 10.1042/BJ20031531
(see accompanying paper pp. 449–456)
e3–e4

Does interplay between nitric oxide and mitochondria affect hypoxia-inducible transcription factor-1 activity?
M.P. Murphy
Published on the Internet 24 November 2003, DOI 10.1042/BJ20031605
(see accompanying paper pp. 537–544)
e5–e6

Research Papers

Oxysterol and 9-cis-retinoic acid stimulate the group II A secretory phospholipase A2 gene in rat smooth-muscle cells
V. Antonio, B. Janvier, A. Brouillet, M. Andreani and M. Raymondjean
Published as BJ Immediate Publication 28 July 2003,
DOI 10.1042/BJ20030098
351–360

BMP-1-mediated proteolytic processing of alternatively spliced isoforms of collagen type XI
R.J. Medeck, S. Sosa, N. Morris and J.T. Oxford
Published as BJ Immediate Publication 8 September 2003,
DOI 10.1042/BJ20030894
361–368

Enhanced expression of manganese-dependent superoxide dismutase in human and sheep CLN6 tissues
C. Heine, J. Tyynelä, J.D. Cooper, D.N. Palmer, M. E línea, A. Kohlschütter and T. Braulke
Published as BJ Immediate Publication 29 August 2003,
DOI 10.1042/BJ20030908
369–376

Identification of two functional nuclear localization signals in DNase γ and their roles in its apoptotic DNase activity
D. Shiokawa, Y. Shika and S.-i. Tanuma
Published as BJ Immediate Publication 28 August 2003,
DOI 10.1042/BJ20030820
377–381

Nuclear transit of human zipcode-binding protein IMP1
Published as BJ Immediate Publication 18 August 2003,
DOI 10.1042/BJ20030943
383–391

Constitutive nuclear factor κB activity is required to elicit interferon-γ-induced expression of chemokine CXC ligand 9 (CXCL9) and CXCL10 in human tumour cell lines
M. Hiroi and Y. Ohmori
Published as BJ Immediate Publication 28 August 2003,
DOI 10.1042/BJ20030842
393–402
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>The loop between helix 4 and helix 5 in the monocarboxylate transporter MCT1 is important for substrate selection and protein stability</td>
<td>S. Galić, H.-P. Schneider, A. Bröer, J.W. Deitmer and S. Bröer</td>
<td>413–422</td>
</tr>
<tr>
<td>Functional specificity of two hormone response elements present on the human apoA-II promoter that bind retinoid X receptor α/thyroid receptor β heterodimers for retinoids and thyroids; synergistic interactions between thyroid receptor β and upstream stimulatory factor 2a</td>
<td>E. Hatzivassiliou, G. Koukos, A. Ribeiro, V. Zannis and D. Kardassis</td>
<td>423–431</td>
</tr>
<tr>
<td>Structural and biochemical characterization of a new type of lectin isolated from carp eggs</td>
<td>M. Galliano, L. Minchiotti, M. Campagnoli, A. Sala, L. Visai, A. Amoresano, P. Pucci, A. Casbarra, M. Caucci, M. Perduca and H.L. Monaco</td>
<td>433–440</td>
</tr>
<tr>
<td>Identification of a minimal promoter sequence for the human N-acetyltransferase Type I gene that binds AP-1 (activator protein 1) and YY-1 (Yin and Yang 1)</td>
<td>N.J. Butcher, A. Arulpragasam, C. Pope and R.F. Minchin</td>
<td>441–448</td>
</tr>
<tr>
<td>Grb2 regulates Stat3 activation negatively in epidermal growth factor signalling</td>
<td>T. Zhang, J. Ma and X. Cao</td>
<td>457–464</td>
</tr>
<tr>
<td>A neutral ceramidase homologue from Dictyostelium discoideum exhibits an acidic pH optimum</td>
<td>H. Monjusho, N. Okino, M. Tani, M. Maeda, M. Yoshida and M. Ito</td>
<td>473–479</td>
</tr>
<tr>
<td>A novel antimicrobial protein isolated from potato (Solanum tuberosum) shares homology with an acid phosphatase</td>
<td>J. Feng, F. Yuan, Y. Gao, C. Liang, J. Xu, C. Zhang and L. He</td>
<td>481–487</td>
</tr>
<tr>
<td>Enhanced exposure of phosphatidylserine in human gastric carcinoma cells overexpressing the half-size ABC transporter BCRP (ABCG2)</td>
<td>H. Woehlecke, A. Pohl, N. Alder-Baeren, H. Lage and A. Herrmann</td>
<td>489–495</td>
</tr>
<tr>
<td>Identification and characterization of differentially active pools of type Ix phosphatidylinositol 4-kinase activity in unstimulated A431 cells</td>
<td>M.G. Waugh, S. Minogue, D. Blumenkrantz, J.S. Anderson and J.J. Hsuan</td>
<td>497–503</td>
</tr>
</tbody>
</table>
Ligand-induced recruitment of Na\(^+\)/H\(^+\)-exchanger regulatory factor to the PDGF (platelet-derived growth factor) receptor regulates actin cytoskeleton reorganization by PDGF
Published as BJ Immediate Publication 10 September 2003,
DOI 10.1042/BJ20030385
J.-B. Demoulin, J.K. Seo, S. Ekman, E. Grapengiesser,
U. Hellman, L. Rönnstrand and C.-H. Heldin
505–510

Effects of [\(^3\)H]glucosamine concentration on
[\(^3\)H]chondroitin sulphate formation by cultured chondrocytes
Published as BJ Immediate Publication 28 August 2003,
DOI 10.1042/BJ20030982
P.J. Mroz and J.E. Silbert
511–515

Transcriptional regulation of methionine synthase by homocysteine and choline in Aspergillus nidulans
Published as BJ Immediate Publication 3 September 2003,
DOI 10.1042/BJ20030747
M.M. Kacprzak, I. Lewandowska, R.G. Matthews
and A. Paszewski
517–524

Interaction of the protein tyrosine phosphatase PTPL1 with the PtdIns(3,4)P\(_2\)-binding adaptor protein TAPP1
Published as BJ Immediate Publication 29 September 2003,
DOI 10.1042/BJ20031154
W.A. Kimber, M. Deak, A.R. Prescott and D.R. Alessi
525–535

Regulation of hypoxia-inducible factor-1\(\alpha\) by nitric oxide through mitochondria-dependent and
-independent pathways
Published as BJ Immediate Publication 8 October 2003,
DOI 10.1042/BJ20031155
J. Mateo, M. García-Lecea, S. Cadenas, C. Hernández
and S. Moncada
537–544
EDITORIAL ADVISORY PANEL (continued)

Z. Radić (La Jolla)
S. Rahman (London)
D. P. Ramji (Cardiff)
M. Rattray (London)
F. X. Real (Barcelona)
C. C. Reddy (University Park, PA)
C. P. F. Redfern (Newcastle upon Tyne)
R. J. Reece (Manchester)
B. H. A. Rehm (Münster)
R. A. F. Reithmeier (Toronto)
P. S. Rennie (Vancouver)
C. Rice-Evans (London)
P. J. Richardson (Cambridge)
C. C. Rider (Egham)
M. H. Rider (Brussels)
L. Rönstrand (Malmö)
H. Rosen (La Jolla)
G. Rotilio (Rome)
F. Russo-Marie (Paris)
K. S. Sakariassen (Uppsala)
J. P. Salier (Rouen)
J. R. Savill (Edinburgh)
J. R. Sayers (Sheffield)
M. F. G. Schmidt (Berlin)
M. L. Schmitz (Bern)
N. S. Scrutton (Leicester)
M. C. Seabra (London)
K. Seedorf (Hamburg)
A. W. Segal (London)
L. M. Shantz (Hershey)
S. D. Shapiro (Boston)
M. Shearman (Harlow)
S. B. Shears (Research Triangle Park, NC)
D. Shimomura (Nagoya)
K. Siddle (Cambridge)
H. Sios (Dusseldorf)
H. Sjöström (Copenhagen)
F. M. Sladek (Riverside, CA)
D. M. Smith (Macclesfield)
S. Spadari (Pavia)
F. Spener (Münster)
H. Stenricke (Bagsvaerd)
A. K. Stobart (Bristol)
W. Stocker (Münster)
G. J. Strous (Utrecht)
T. W. Sturgill (Charlottesville)
K. E. Suckling (Stevenage)
B. Svensson (Copenhagen)
A. Tepikin (Liverpool)
M. Thelen (Bellinzona)
N. S. B. Thomas (London)
D. Thornton (Manchester)
C. Tickle (Dundee)
D. Tosh (Bath)
P. Trayhurn (Liverpool)
C. M. Troy (New York)
A. J. Trewavas (Edinburgh)
J. T. Triffitt (Oxford)
G. C. Tsokos (Silver Spring, MD)
J. Turnbull (Birmingham)
B. M. Turner (Birmingham)
B. Ullman (Portland, OR)
L. M. G. van Golde (Utrecht)
S. van Heyningen (Edinburgh)
E. van Schaftingen (Brussels)
G. Vassart (Bruxelles)
A. Veillette (Montreal)
G. Verhoeven (Leuven)
D. A. Vessey (San Francisco)
H. Vidal (Lyon)
J. F. G. Vliegenthart (Utrecht)
M. J. Warren (London)
N. J. Wasmuth (Norwich)
S. P. Watson (Birmingham)
A. Watts (Oxford)
D. J. Waxman (Boston)
K. G. Welinder (Aalborg)
R. E. Wettenhall (Parkville)
M. Wheatley (Birmingham)
C. Wheeler-Jones (London)
P. J. White (Warwick)
D. G. Wilkinson (London)
D. C. Wilton (Southampton)
J.-O. Winberg (Tromsø)
S. J. Winder (Sheffield)
C. C. Winterbourn (Christchurch, NZ)
S. G. Withers (Vancouver)
P. Wojtaszek (Poznan)
S. Wolf (Jena)
J. M. Woof (Dundee)
J. M. Wrigglesworth (London)
M. C. Wright (Aberdeen)
S. Wright (Leeds)
G. Wu (College Station, TX)
F. Wuytack (Leuven)
M. P. Wymann (Fribourg)
I. Young (Belfast)
L. S. Young (Birmingham)
S. P. Young (Birmingham)
D. I. Yule (Rochester, NY)
I. Zachary (London)
R. Zamorska (London)
J. M. Zapata (La Jolla)