Rat insulinoma (RIN) cells were treated with 1 μM examethasone for 7 days, immunostained for the transcription factor C/EBPβ and then co-stained with DAPI (blue). For further details, see Shen et al. Biochem. J. (2003), 375, 41–50.
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 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 aims to advance 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 Preliminary, confirmatory or inconclusive work will not be published.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that it has been approved by all authors, that all persons entitled to authorship have been named, that it reports unpublished work that is not under consideration elsewhere, and that if the paper is accepted for publication, the authors will transfer the Biochemical Society the copyright in the paper, which will then not be published elsewhere in the same form, in any language, without the consent of the Society.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, 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 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 ‘Least publishable unit’ is discouraged.

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 un-urgent material. Authors must include in their letter of submission a brief statement of why they believe their AP merits accelerated treatment. Papers reporting nucleotide sequences only are not accepted as APs. Coloured figures will be published free of charge in APs; subsequent figures will cost £300 each.

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 typed 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 sure they understand the requirements. 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 1GQ, U.K. (telephone +44 20 7637 5873; fax +44 20 7323 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 files 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. Single issues (44-102 pages each) or volumes (390-396 pages each) will appear. The subscription also includes an author and key-word index.

Subscription rates Institutional subscription rates for 2003 are shown below. Subscribers to the Biochemical Journal can subscribe additionally to Biochemical Society Transactions and Bulletin of Applied Biochemistry on a joint subscription at a reduced rate. 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 below, or through your usual agent.

<table>
<thead>
<tr>
<th>One year (8 vols)</th>
<th>Print and online</th>
<th>Online only</th>
<th>Single issues (print only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>US$2299</td>
<td>US$2115</td>
<td>US$2226</td>
</tr>
<tr>
<td>Rest of world</td>
<td>£1307</td>
<td>£1202</td>
<td>£1271</td>
</tr>
<tr>
<td>Euro price</td>
<td>€2223</td>
<td>€2044</td>
<td>€2156</td>
</tr>
<tr>
<td>N. America</td>
<td>US$2986</td>
<td>US$2786</td>
<td>US$2906</td>
</tr>
<tr>
<td>£1489</td>
<td>£1302</td>
<td>£1397</td>
<td></td>
</tr>
<tr>
<td>€2156</td>
<td>€2044</td>
<td>€2156</td>
<td></td>
</tr>
</tbody>
</table>

Overseas rates include airfreight delivery. Priority delivery is available at an additional cost of £56/€69.

VAT is due on some supplies to subscribers within the EU, 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 102-336 of the Biochemical Journal are available on microfiche. Back issues are also available at 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).

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

Roles of 5'-AMP-activated protein kinase (AMPK) in mammalian glucose homoeostasis
Published as BJ Immediate Publication 3 July 2003,
DOI 10.1042/BJ20030048

G.A. Rutter, G. da Silva Xavier and I. Leclerc 1–16

Accelerated Publication

Identification of a novel Na\(^+\) - and Cl\(^-\) -coupled transport system for endogenous opioid peptides in retinal pigment epithelium and induction of the transport system by HIV-1 Tat
Published as BJ Immediate Publication 19 August 2003,
DOI 10.1042/BJ20031059

H. Hu, S. Miyauchi, C.C. Bridges, S.B. Smith and V. Ganapathy 17–22

Research Papers

Characterization of a potent human interleukin-11 agonist
Published as BJ Immediate Publication 14 August 2003,
DOI 10.1042/BJ20030459


Characterization of non-covalent oligomers of proteins treated with hypochlorous acid
Published as BJ Immediate Publication 9 July 2003,
DOI 10.1042/BJ20030685


Glucocorticoids suppress β-cell development and induce hepatic metaplasia in embryonic pancreas
Published as BJ Immediate Publication 26 June 2003,
DOI 10.1042/BJ200303140

C.-N. Shen, J.R. Seckl, J.M.W. Slack and D. Tosh 41–50

Structure–function analysis of LIV-1, the breast cancer-associated protein that belongs to a new subfamily of zinc transporters
Published as BJ Immediate Publication 2 July 2003,
DOI 10.1042/BJ20030478


N-linked glycosylation of native and recombinant cauliflower xyloglucan endotransglycosylase 16A
Published as BJ Immediate Publication 26 June 2003,
DOI 10.1042/BJ20030485


Changes in the proteolytic activities of proteasomes and lysosomes in human fibroblasts produced by serum withdrawal, amino-acid deprivation and confluent conditions
Published as BJ Immediate Publication 4 July 2003,
DOI 10.1042/BJ20030282

G. Fuertes, J.J. Martín de Llano, A. Villarroja, A.J. Rivett and E. Knecht 75–86

Neuronal calcium sensor proteins are direct targets of the insulinotropic agent repaglinide
Published as BJ Immediate Publication 4 July 2003,
DOI 10.1042/BJ20030376


Thrombin inhibits Bim (Bcl-2-interacting mediator of cell death) expression and prevents serum-withdrawal-induced apoptosis via protease-activated receptor 1
Published as BJ Immediate Publication 7 July 2003,
DOI 10.1042/BJ20030346

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulation of cell-surface major histocompatibility complex class I expression by the endopeptidase EC3.4.24.15 (thimet oligopeptidase)</td>
<td>S.I. Kim, A. Pabon, T.A. Swanson and M.J. Glucksman</td>
<td>111–120</td>
</tr>
<tr>
<td>Post-translational incorporation of the antiproliferative agent azatyrosine into the C-terminus of α-tubulin</td>
<td>S.A. Purro, C.G. Bisig, M.A. Contin, H.S. Barra and C.A. Arce</td>
<td>121–129</td>
</tr>
<tr>
<td>Binding of endostatin to endothelial heparan sulphate shows a differential requirement for specific sulphates</td>
<td>F.H. Blackhall, C.L.R. Merry, M. Lyon, G.C. Jayson, J. Folkman, K. Javaherian and J.T. Gallagher</td>
<td>131–139</td>
</tr>
<tr>
<td>Wortmannin alters the intracellular trafficking of the bradykinin B2 receptor: role of phosphoinositide 3-kinase and Rab5</td>
<td>S. Houle and F. Marceau</td>
<td>151–158</td>
</tr>
<tr>
<td>Fructose modulates GLUT5 mRNA stability in differentiated Caco-2 cells: role of cAMP-signalling pathway and PABP (polyadenylated-binding protein)-interacting protein (Paip) 2</td>
<td>F. Gouyon, C. Onesto, V. Dalet, G. Pages, A. Leturque and E. Brot-Laroche</td>
<td>167–174</td>
</tr>
<tr>
<td>Human salivary MUC7 mucin peptides: effect of size, charge and cysteine residues on antifungal activity</td>
<td>H. Situ, G. Wei, C.J. Smith, S. Mashhoon and L.A. Bobek</td>
<td>175–182</td>
</tr>
<tr>
<td>Variations in aggrecan structure modulate its susceptibility to aggrecanases</td>
<td>P.J. Roughley, J. Barnett, F. Zuo and J.S. Mort</td>
<td>183–189</td>
</tr>
<tr>
<td>The mouse matrix metalloproteinase, epilysin (MMP-28), is alternatively spliced and processed by a furin-like proprotein convertase</td>
<td>S.A. Illman, J. Keski-Oja, W.C. Parks and J. Lohi</td>
<td>191–197</td>
</tr>
<tr>
<td>Adaptor signalling proteins Grb2 and Grb7 are recruited by human G6f, a novel member of the immunoglobulin superfamily encoded in the MHC</td>
<td>E.C.J.M. de Vet, B. Aguado and R.D. Campbell</td>
<td>207–213</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>----------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Cytochrome c is reduced mainly by plastoquinol and not by superoxide in thylakoid membranes at low and medium light intensities: its specific interaction with thylakoid membrane lipids</td>
<td>J. Kruk, M. Jemioła-Rzemienśka and K. Strzałka</td>
<td>215–220</td>
</tr>
</tbody>
</table>