

**Review****Phagosome maturation: aging gracefully  
by O.V. Vieira, R.J. Botelho and S. Grinstein**

Published as BJ Immediate Publication 13 June 2002,  
DOI 10.1042/BJ20020691

689–704

**Research Communication**

S–S bonds are not required for the sonochemical formation of proteinaceous microspheres: the case of streptavidin

Published as BJ Immediate Publication 16 July 2002,  
DOI 10.1042/BJ20020676

S. Avivi and A. Gedanken

705–707

**Research Papers**

Identification of a novel AU-rich-element-binding protein which is related to AUF1

Published as BJ Immediate Publication 27 June 2002,  
DOI 10.1042/BJ20020402

J.L.E. Dean, G. Sully, R. Wait, L. Rawlinson, A.R. Clark and J. Saklatvala

709–719

A mammalian Rho-specific guanine-nucleotide exchange factor (p164-RhoGEF) without a pleckstrin homology domain

Published as BJ Immediate Publication 19 June 2002,  
DOI 10.1042/BJ20020654

U. Rümenapp, A. Freichel-Blomquist, B. Wittinghofer, K.H. Jakobs and T. Wieland

721–728

Androgen receptor expression is regulated by the phosphoinositide 3-kinase/Akt pathway in normal and tumoral epithelial cells

Published as BJ Immediate Publication 24 April 2002,  
DOI 10.1042/BJ20020585

M. Manin, S. Baron, K. Goossens, C. Beaudoin, C. Jean, G. Veysiere, G. Verhoeven and L. Morel

729–736

Proinsulin C-peptide activates cAMP response element-binding proteins through the p38 mitogen-activated protein kinase pathway in mouse lung capillary endothelial cells

Published as BJ Immediate Publication 11 June 2002,  
DOI 10.1042/BJ20020344

T. Kitamura, K. Kimura, B.D. Jung, K. Makondo, N. Sakane, T. Yoshida and M. Saito

737–744

P2X<sub>7</sub> receptors activate protein kinase D and p42/p44 mitogen-activated protein kinase (MAPK) downstream of protein kinase C

Published as BJ Immediate Publication 11 June 2002,  
DOI 10.1042/BJ20020358

M.D. Bradford and S.P. Soltoff

745–755

Hormone-specific regulation of the kidney androgen-regulated gene promoter in cultured mouse renal proximal-tubule cells

Published as BJ Immediate Publication 27 May 2002,  
DOI 10.1042/BJ20011807

M. Soler, O. Tornavaca, E. Solé, A. Menoyo, D. Hardy, J.F. Catterall, A. Vandewalle and A. Meseguer

757–766

Genomic organization of the mouse peroxisome proliferator-activated receptor  $\beta/\delta$  gene: alternative promoter usage and splicing yield transcripts exhibiting differential translational efficiency

Published as BJ Immediate Publication 12 June 2002,  
DOI 10.1042/BJ20011821

L.K. Larsen, E.-Z. Amri, S. Mandrup, C. Pacot and K. Kristiansen

767–775

A method for detection of overoxidation of cysteines: peroxiredoxins are oxidized *in vivo* at the active-site cysteine during oxidative stress

Published as BJ Immediate Publication 11 June 2002,  
DOI 10.1042/BJ20020525

E. Wagner, S. Luche, L. Penna, M. Chevallet, A. Van Dorsselaer, E. Leize-Wagner and T. Rabilloud

777–785

Requirement of the p38 mitogen-activated protein kinase signalling pathway for the induction of the 78 kDa glucose-regulated protein/immunoglobulin heavy-chain binding protein by azetidine stress: activating transcription factor 6 as a target for stress-induced phosphorylation

Published as BJ Immediate Publication 20 June 2002,  
DOI 10.1042/BJ20011802

S. Luo and A.S. Lee

787–795

The human DnaJ homologue (Hdj)-1/heat-shock protein (Hsp) 40 co-chaperone is required for the <i>in vivo</i> stabilization of the cystic fibrosis transmembrane conductance regulator by Hsp70 <i>Published as BJ Immediate Publication 17 June 2002,</i> <i>DOI 10.1042/BJ20011717</i>	C.M. Farinha, P. Nogueira, F. Mendes, D. Penque and M.D. Amaral	<b>797–806</b>
Tumour metastasis suppressor, nm23- $\beta$ , inhibits gelatinase A transcription by interference with transactivator Y-box protein-1 (YB-1) <i>Published as BJ Immediate Publication 15 May 2002,</i> <i>DOI 10.1042/BJ20020202</i>	S. Cheng, M.A. Alfonso-Jaume, P.R. Mertens and D.H. Lovett	<b>807–816</b>
Cloning and expression of a novel Mu class murine glutathione transferase isoenzyme <i>Published as BJ Immediate Publication 17 June 2002,</i> <i>DOI 10.1042/BJ20020041</i>	J. Guo, L. Zimniak, P. Zimniak, J.L. Orchard and S.V. Singh	<b>817–824</b>
Endoplasmic reticulum resident proteins of normal human dermal fibroblasts are the major targets for oxidative stress induced by hydrogen peroxide <i>Published as BJ Immediate Publication 19 June 2002,</i> <i>DOI 10.1042/BJ20020618</i>	D. van der Vlies, E.H.W. Pap, J.A. Post, J.E. Celis and K.W.A. Wirtz	<b>825–830</b>
The cyclo-oxygenase-2 inhibitor celecoxib perturbs intracellular calcium by inhibiting endoplasmic reticulum $\text{Ca}^{2+}$ -ATPases: a plausible link with its anti-tumour effect and cardiovascular risks <i>Published as BJ Immediate Publication 20 June 2002,</i> <i>DOI 10.1042/BJ20020279</i>	A.J. Johnson, A.-L. Hsu, H.-P. Lin, X. Song and C.-S. Chen	<b>831–837</b>
Up-regulation of pyruvate dehydrogenase kinase isoform 4 (PDK4) protein expression in oxidative skeletal muscle does not require the obligatory participation of peroxisome-proliferator-activated receptor $\alpha$ (PPAR $\alpha$ ) <i>Published as BJ Immediate Publication 8 July 2002,</i> <i>DOI 10.1042/BJ20020754</i>	M.J. Holness, K. Bulmer, G.F. Gibbons and M.C. Sugden	<b>839–846</b>
Novel homodimeric and heterodimeric rat $\gamma$ -hydroxybutyrate synthases that associate with the Golgi apparatus define a distinct subclass of aldo-keto reductase 7 family proteins <i>Published as BJ Immediate Publication 19 June 2002,</i> <i>DOI 10.1042/BJ20020342</i>	V.P. Kelly, P.J. Sherratt, D.H. Crouch and J.D. Hayes	<b>847–861</b>
Effects of L- and D-REKR amino acid-containing peptides on HIV and SIV envelope glycoprotein precursor maturation and HIV and SIV replication <i>Published as BJ Immediate Publication 18 June 2002,</i> <i>DOI 10.1042/BJ20020052</i>	B. Bahbouhi, N. Chazal, N.G. Seidah, C. Chiva, M. Kogan, F. Albericio, E. Giralt and E. Bähraoui	<b>863–872</b>
Functional analysis of basic transcription element (BTE)-binding protein (BTEB) 3 and BTEB4, a novel Sp1-like protein, reveals a subfamily of transcriptional repressors for the BTE site of the <i>cytochrome P4501A1</i> gene promoter <i>Published as BJ Immediate Publication 29 May 2002,</i> <i>DOI 10.1042/BJ20020388</i>	J.A. Kaczynski, A.A. Conley, M. Fernandez Zapico, S.M. Delgado, J.-S. Zhang and R. Urrutia	<b>873–882</b>
A novel, kinetically stable, catalytically active, all-ferric, nitrite-bound complex of <i>Paracoccus pantotrophus</i> cytochrome <i>cd</i> , <i>Published as BJ Immediate Publication 26 June 2002,</i> <i>DOI 10.1042/BJ20020795</i>	J.W.A. Allen, C.W. Higham, R.S. Zajicek, N.J. Watmough and S.J. Ferguson	<b>883–888</b>
Catalytic reaction profile for NADH-dependent reduction of aromatic aldehydes by xylose reductase from <i>Candida tenuis</i> <i>Published as BJ Immediate Publication 10 May 2002,</i> <i>DOI 10.1042/BJ20020080</i>	P. Mayr and B. Nidetzky	<b>889–899</b>
Inhibition of peroxisome proliferator-activated receptor (PPAR)-mediated keratinocyte differentiation by lipoxigenase inhibitors <i>Published as BJ Immediate Publication 17 June 2002,</i> <i>DOI 10.1042/BJ20020377</i>	P. Thuillier, A.R. Brash, J.P. Kehrer, J.B. Stimmel, L.M. Leesnitzer, P. Yang, R.A. Newman and S.M. Fischer	<b>901–910</b>
Evidence that there are two copies of subunit <i>c''</i> in $V_0$ complexes in the vacuolar $\text{H}^+$ -ATPase <i>Published as BJ Immediate Publication 31 May 2002,</i> <i>DOI 10.1042/BJ20020171</i>	L.C.D. Gibson, G. Cadwallader and M.E. Finbow	<b>911–919</b>
A novel putative insect chitinase with multiple catalytic domains: hormonal regulation during metamorphosis <i>Published as BJ Immediate Publication 11 June 2002,</i> <i>DOI 10.1042/BJ20011764</i>	V. Royer, S. Fraichard and H. Bouhin	<b>921–928</b>

PrpE, a PPP protein phosphatase from <i>Bacillus subtilis</i> with unusual substrate specificity <i>Published as BJ Immediate Publication 11 June 2002,</i> <i>DOI 10.1042/BJ20011591</i>	A. Iwanicki, A. Herman-Antosiewicz, M. Pierechod, S.J. Séror and M. Obuchowski	<b>929–936</b>
Implication of the small GTPase Rac1 in the generation of reactive oxygen species in response to $\beta$ -amyloid in C6 astrogloma cells <i>Published as BJ Immediate Publication 31 May 2002,</i> <i>DOI 10.1042/BJ20020453</i>	M. Lee, H.-J. You, S.-H. Cho, C.-H. Woo, M.-H. Yoo, E.-H. Joe and J.-H. Kim	<b>937–943</b>
Calmodulin controls organization of the actin cytoskeleton via regulation of phosphatidylinositol (4,5)-bisphosphate synthesis in <i>Saccharomyces cerevisiae</i> <i>Published as BJ Immediate Publication 21 June 2002,</i> <i>DOI 10.1042/BJ20020429</i>	S. Desrivières, F.T. Cooke, H. Morales-Johansson, P.J. Parker and M.N. Hall	<b>945–951</b>
Irreversible inhibition of the bacterial cysteine protease-transpeptidase sortase (SrtA) by substrate-derived affinity labels <i>Published as BJ Immediate Publication 17 June 2002,</i> <i>DOI 10.1042/BJ20020602</i>	C.J. Scott, A. McDowell, S.L. Martin, J.F. Lynas, K. Vandenbroeck and B. Walker	<b>953–958</b>
Lipid modification of proteins in Archaea: attachment of a mevalonic acid-based lipid moiety to the surface-layer glycoprotein of <i>Haloferax volcanii</i> follows protein translocation <i>Published as BJ Immediate Publication 17 June 2002,</i> <i>DOI 10.1042/BJ20020757</i>	Z. Konrad and J. Eichler	<b>959–964</b>
Measurement of free and membrane-bound cathepsin G in human neutrophils using new sensitive fluorogenic substrates <i>Published as BJ Immediate Publication 28 June 2002,</i> <i>DOI 10.1042/BJ20020321</i>	S. Attucci, B. Korkmaz, L. Juliano, E. Hazouard, C. Girardin, M. Brillard-Bourdet, S. Réhault, P. Anthonioz and F. Gauthier	<b>965–970</b>
Distinct sites for myotoxic and membrane-damaging activities in the C-terminal region of a Lys <sup>49</sup> -phospholipase A <sub>2</sub> <i>Published as BJ Immediate Publication 21 June 2002,</i> <i>DOI 10.1042/BJ20020092</i>	L. Chioato, A.H.C. de Oliveira, R. Ruller, J.M. Sá and R.J. Ward	<b>971–976</b>
A non-radioactive method for the assay of many serine/threonine-specific protein kinases <i>Published as BJ Immediate Publication 15 July 2002,</i> <i>DOI 10.1042/BJ20020786</i>	H. Ross, C.G. Armstrong and P. Cohen	<b>977–981</b>
A <sup>13</sup> C-NMR study of the inhibition of papain by a dipeptide-glyoxal inhibitor <i>Published as BJ Immediate Publication 12 June 2002,</i> <i>DOI 10.1042/BJ20020499</i>	J. Lowther, A. Djurdjevic-Pahl, C. Hewage and J.P.G. Malthouse	<b>983–987</b>
Effects of mutations at the two processing sites of the precursor for the small subunit of ribulose-bisphosphate carboxylase in <i>Chlamydomonas reinhardtii</i> <i>Published as BJ Immediate Publication 5 June 2002,</i> <i>DOI 10.1042/BJ20020378</i>	C. Invernizzi, J. Imhof, G. Burkard, K. Schmid and A. Boschetti	<b>989–998</b>

## Corrections

Decorin suppresses transforming growth factor- $\beta$ -induced expression of plasminogen activator inhibitor-1 in human mesangial cells through a mechanism that involves Ca <sup>2+</sup> -dependent phosphorylation of Smad2 at serine-240 by N. Abdel-Wahab, S.J. Wicks, R.M. Mason and A. Chantry (volume 362, pp. 643–649, 2002)		<b>999</b>
Diacylglycerol activates the influx of extracellular cations in T-lymphocytes independently of intracellular calcium-store depletion and possibly involving endogenous TRP6 gene products by A. Gamberucci, E. Giurisato, P. Pizzo, M. Tassi, R. Giunti, D.P. McIntosh and A. Benedetti (volume 364, pp. 245–254, 2002)		<b>999</b>