

**Review****CCAAT/enhancer-binding proteins: structure, function and regulation**

561–575

by D.P. Ramji and P. Foka

*Published as BJ Immediate Publication 10 May 2002,  
DOI 10.1042/BJ20020508***Research Papers**

Alteration in the cytosolic triacylglycerol biosynthetic machinery leads to decreased cell growth and triacylglycerol synthesis in oleaginous yeast

A. Gangar, S. Raychaudhuri and R. Rajasekharan

577–589

*Published as BJ Immediate Publication 24 April 2002,  
DOI 10.1042/BJ20011654*

Characterization of an activated mutant of focal adhesion kinase: 'SuperFAK'

V. Gabarra-Niecko, P.J. Keely and M.D. Schaller

591–603

*Published as BJ Immediate Publication 3 May 2002,  
DOI 10.1042/BJ20020065*

Reaction of protein chloramines with DNA and nucleosides: evidence for the formation of radicals, protein–DNA cross-links and DNA fragmentation

C.L. Hawkins, D.I. Pattison and M.J. Davies

605–615

*Published as BJ Immediate Publication 14 May 2002,  
DOI: 10.1042/BJ20020363*

Human platelets respond differentially to lysophosphatidic acids having a highly unsaturated fatty acyl group and alkyl ether-linked lysophosphatidic acids

A. Tokumura, J. Sinomiya, S. Kishimoto, T. Tanaka, K. Kogure, T. Sugiura, K. Satouchi, K. Waku and K. Fukuzawa

617–628

*Published as BJ Immediate Publication 1 May 2002,  
DOI 10.1042/BJ20020348*

Expression and regulation of the AMP-activated protein kinase–SNF1 (sucrose non-fermenting 1) kinase complexes in yeast and mammalian cells: studies using chimaeric catalytic subunits

T. Daniel and D. Carling

629–638

*Published as BJ Immediate Publication 24 April 2002,  
DOI 10.1042/BJ20020124*

Copper uptake is required for pyrrolidine dithiocarbamate-mediated oxidation and protein level increase of p53 in cells

S. Furuta, F. Ortiz, X. Zhu Sun, H.-H. Wu, A. Mason and J. Momand

639–648

*Published as BJ Immediate Publication 19 April 2002,  
DOI 10.1042/BJ20011251*

Role of the interfacial binding domain in the oxidative susceptibility of lecithin:cholesterol acyltransferase

K. Wang and P.V. Subbaiah

649–657

*Published as BJ Immediate Publication 19 April 2002,  
DOI 10.1042/BJ20020064*

The high-affinity calcium–calmodulin-binding site does not play a role in the modulation of type 1 inositol 1,4,5-trisphosphate receptor function by calcium and calmodulin

E. Nosyreva, T. Miyakawa, Z. Wang, L. Glouchankova, A. Mizushima, M. Iino and I. Bezprozvanny

659–667

*Published as BJ Immediate Publication 25 April 2002,  
DOI 10.1042/BJ20011789*

Mapping the human translation elongation factor eEF1H complex using the yeast two-hybrid system

F. Mansilla, I. Friis, M. Jadidi, K.M. Nielsen, B.F.C. Clark and C.R. Knudsen

669–676

*Published as BJ Immediate Publication 2 May 2002,  
DOI 10.1042/BJ20011681*

RGS3 interacts with 14-3-3 via the N-terminal region distinct from the RGS (regulator of G-protein signalling) domain

J. Niu, A. Scheschonka, K.M. Druey, A. Davis, E. Reed, V. Kolenko, R. Bodnar, T. Voyno-Yasenetskaya, X. Du, J. Kehrl and N.O. Dulin

677–684

*Published as BJ Immediate Publication 1 May 2002,  
DOI 10.1042/BJ20020390*

Mu-class glutathione transferase from <i>Xenopus laevis</i> : molecular cloning, expression and site-directed mutagenesis <i>Published as BJ Immediate Publication 3 May 2002,</i> <i>DOI 10.1042/BJ20020127</i>	A. De Luca, B. Favaloro, S. Angelucci, P. Sacchetta and C. Di Ilio	<b>685–691</b>
Post-translational integration and oligomerization of connexin 26 in plasma membranes and evidence of formation of membrane pores: implications for the assembly of gap junctions <i>Published as BJ Immediate Publication 2 May 2002,</i> <i>DOI 10.1042/BJ20011572</i>	S. Ahmad and W.H. Evans	<b>693–699</b>
Monte Carlo simulation of hyaluronidase reaction involving hydrolysis, transglycosylation and condensation <i>Published as BJ Immediate Publication 19 April 2002,</i> <i>DOI 10.1042/BJ20011769</i>	H. Nakatani	<b>701–705</b>
Interactions of ATP, oestradiol, genistein and the anti-oestrogens, faslodex (ICI 182780) and tamoxifen, with the human erythrocyte glucose transporter, GLUT1 <i>Published on the Internet 25 July 2002,</i> <i>DOI 10.1042/BJ20011624</i>	I. Afzal, P. Cunningham and R.J. Naftalin	<b>707–719</b>
Lysosome-associated protein transmembrane 4 $\alpha$ (LAPTM4 $\alpha$ ) requires two tandemly arranged tyrosine-based signals for sorting to lysosomes <i>Published as BJ Immediate Publication 29 April 2002,</i> <i>DOI 10.1042/BJ20020205</i>	D.L. Hogue, C. Nash, V. Ling and T.C. Hobman	<b>721–730</b>
Support for a three-dimensional structure predicting a Cys-Glu-Lys catalytic triad for <i>Pseudomonas aeruginosa</i> amidase comes from site-directed mutagenesis and mutations altering substrate specificity <i>Published as BJ Immediate Publication 15 April 2002,</i> <i>DOI 10.1042/BJ20011714</i>	C. Novo, S. Farnaud, R. Tata, A. Clemente and P.R. Brown	<b>731–738</b>
Control of domain swapping in bovine odorant-binding protein <i>Published as BJ Immediate Publication 4 April 2002,</i> <i>DOI 10.1042/BJ20011631</i>	R. Ramoni, F. Vincent, A.E. Ashcroft, P. Accornero, S. Grolli, C. Valencia, M. Tegoni and C. Cambillau	<b>739–748</b>
Two essential regions for tRNA recognition in <i>Bacillus subtilis</i> tryptophanyl-tRNA synthetase <i>Published as BJ Immediate Publication 19 April 2002,</i> <i>DOI 10.1042/BJ20020141</i>	J. Jia, F. Xu, X. Chen, L. Chen, Y. Jin and D.T.P. Wang	<b>749–756</b>
Phosphorylation and activation of mitogen- and stress-activated protein kinase-1 in adult rat cardiac myocytes by G-protein-coupled receptor agonists requires both extracellular-signal-regulated kinase and p38 mitogen-activated protein kinase <i>Published as BJ Immediate Publication 7 May 2002,</i> <i>DOI 10.1042/BJ20011828</i>	T. Markou and A. Lazou	<b>757–763</b>
Events in the immortalizing process of primary human mammary epithelial cells by the catalytic subunit of human telomerase <i>Published as BJ Immediate Publication 29 April 2002,</i> <i>DOI 10.1042/BJ20011848</i>	H. Kim, J. Farris, S.A. Christman, B.-W. Kong, L.K. Foster, S.M. O'Grady and D.N. Foster	<b>765–772</b>
Interactions defining the specificity between fungal xylanases and the xylanase-inhibiting protein XIP-I from wheat <i>Published as BJ Immediate Publication 16 April 2002,</i> <i>DOI 10.1042/BJ20020168</i>	R. Flatman, W.R. McLauchlan, N. Juge, C. Furniss, J.-G. Berrin, R.K. Hughes, P. Manzanares, J.E. Ladbury, R. O'Brien and G. Williamson	<b>773–781</b>
The 4.1/ezrin/radixin/moesin domain of the DAL-1/Protein 4.1B tumour suppressor interacts with 14-3-3 proteins <i>Published as BJ Immediate Publication 25 April 2002,</i> <i>DOI 10.1042/BJ20020060</i>	T. Yu, V.A. Robb, V. Singh, D.H. Gutmann and I.F. Newsham	<b>783–789</b>
Hepatocyte growth factor activates phosphoinositide 3-kinase C2 $\beta$ in renal brush-border plasma membranes <i>Published as BJ Immediate Publication 3 April 2002,</i> <i>DOI 10.1042/BJ20020316</i>	V. Crljen, S. Volinia and H. Banfic	<b>791–799</b>
Fructosamine 3-kinase is involved in an intracellular deglycation pathway in human erythrocytes <i>Published as BJ Immediate Publication 25 April 2002,</i> <i>DOI 10.1042/BJ20020325</i>	G. Delpierre, F. Collard, J. Fortpied and E. Van Schaftingen	<b>801–808</b>

Probing the catalytic mechanism of <i>Escherichia coli</i> amine oxidase using mutational variants and a reversible inhibitor as a substrate analogue <i>Published as BJ Immediate Publication 2 May 2002,</i> <i>DOI 10.1042/BJ20011435</i>	C.G. Saysell, W.S. Tambyrajah, J.M. Murray, C.M. Wilmot, S.E.V. Phillips, M.J. McPherson and P.F. Knowles	<b>809–816</b>
Molecular mapping of the determinants involved in human Staufen–ribosome association <i>Published as BJ Immediate Publication 16 April 2002,</i> <i>DOI 10.1042/BJ20020263</i>	M. Luo, T.F. Duchaine and L. DesGroseillers	<b>817–824</b>
Mitochondria-dependent and -independent mechanisms in tumour necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced apoptosis are both regulated by interferon- $\gamma$ in human breast tumour cells <i>Published as BJ Immediate Publication 5 April 2002,</i> <i>DOI 10.1042/BJ20020184</i>	C. Ruiz-Ruiz and A. López-Rivas	<b>825–832</b>
An open reading frame in intron seven of the sea urchin DNA-methyltransferase gene codes for a functional AP1 endonuclease <i>Published as BJ Immediate Publication 15 April 2002,</i> <i>DOI 10.1042/BJ20011857</i>	A.V. Cioffi, D. Ferrara, M.V. Cubellis, F. Aniello, M. Corrado, F. Liguori, A. Amoroso, L. Fucci and M. Branno	<b>833–840</b>
Thermal denaturation of influenza virus and its relationship to membrane fusion <i>Published as BJ Immediate Publication 7 May 2002,</i> <i>DOI 10.1042/BJ20020290</i>	R.M. Eband and R.F. Eband	<b>841–848</b>
Role of oxidative stress in germ cell apoptosis induced by di(2-ethylhexyl)phthalate <i>Published as BJ Immediate Publication 1 May 2002,</i> <i>DOI 10.1042/BJ20020254</i>	E. Kasahara, E.F. Sato, M. Miyoshi, R. Konaka, K. Hiramoto, J. Sasaki, M. Tokuda, Y. Nakano and M. Inoue	<b>849–856</b>
Identification of the two essential groups in the family 3 $\beta$ -glucosidase from <i>Flavobacterium meningosepticum</i> by labelling and tandem mass spectrometric analysis <i>Published as BJ Immediate Publication 29 April 2002,</i> <i>DOI 10.1042/BJ20020186</i>	J. Chir, S. Withers, C.-F. Wan and Y.-K. Li	<b>857–863</b>
Inhibition of potato lipoxygenase by linoleyl hydroxamic acid: kinetic and EPR spectral evidence for a two-step reaction <i>Published as BJ Immediate Publication 2 May 2002,</i> <i>DOI 10.1042/BJ20020495</i>	I.A. Butovich and C.C. Reddy	<b>865–871</b>
Gastrin-stimulated gastric epithelial cell invasion: the role and mechanism of increased matrix metalloproteinase 9 expression <i>Published as BJ Immediate Publication 24 April 2002,</i> <i>DOI 10.1042/BJ20020068</i>	L.E. Wroblewski, D.M. Pritchard, S. Carter and A. Varro	<b>873–879</b>
Conserved hydrophobic amino acid residues in the N-terminal region of DnaA protein are involved in DnaA–DnaA interaction <i>Published as BJ Immediate Publication 11 April 2002,</i> <i>DOI 10.1042/BJ20020287</i>	S. Mima, M. Makise, M. Koterawasa, T. Tsuchiya and T. Mizushima	<b>881–887</b>
Association of brain $\gamma$ -tubulins with $\alpha\beta$ -tubulin dimers <i>Published as BJ Immediate Publication 8 April 2002,</i> <i>DOI 10.1042/BJ20020175</i>	V. Sulimenko, T. Sulimenko, S. Poznanovic, V. Nechiporuk-Zloy, K.J. Böhm, L. Macurek, E. Unger and P. Dráber	<b>889–895</b>
Activated neutrophils oxidize extracellular proteins of endothelial cells in culture: effect of nitric oxide donors <i>Published as BJ Immediate Publication 19 April 2002,</i> <i>DOI 10.1042/BJ20011206</i>	G.A. Czapski, D. Avram, D.V. Sakharov, K.W.A. Wirtz, J.B. Strosznajder and E.H.W. Pap	<b>897–902</b>

## Corrections

A new family of rhamnogalacturonan lyases contains an enzyme that binds to cellulose by V.A. McKie, J.-P. Vincken, A.G.J. Voragen, L.A.M. van den Broek, E. Stimson and H.J. Gilbert (volume 355, pp. 167–177, 2001)		<b>903</b>
Sheep have an unusual variant of the brain-specific metallothionein by R.S. Chung, A.F. Holloway, B.L. Eckhardt, J.A. Harris, J.C. Vickers, M.I. Chuah and A.K. West (volume 365, pp. 323–328, 2002)		<b>903</b>