

Review

GSK3 takes centre stage more than 20 years after its discovery
by S. Frame and P. Cohen

1–16

Research Communication

Lipid modification of the Cu,Zn superoxide dismutase from *Mycobacterium tuberculosis*

M. D'Orazio, S. Folcarelli, F. Mariani, V. Colizzi, G. Rotilio and A. Battistoni

17–22

Research Papers

Two starch-branching-enzyme isoforms occur in different fractions of developing seeds of kidney bean

S. Hamada, K. Nozaki, H. Ito, Y. Yoshimoto, H. Yoshida, S. Hiraga, S. Onodera, M. Honma, Y. Takeda and H. Matsui

23–34

Characterization of unique amphipathic antimicrobial peptides from venom of the scorpion *Pandinus imperator*

G. Corzo, P. Escoubas, E. Villegas, K.J. Barnham, W. He, R.S. Norton and T. Nakajima

35–45



Eicosanoids participate in the regulation of cardiac glucose transport by contribution to a rearrangement of actin cytoskeletal elements

O. Dransfeld, I. Rakatzi, S. Sasson, A. Gruzman, M. Schmitt, D. Häussinger and J. Eckel

47–54

Chloride intracellular channel protein CLIC4 (p64H1) binds directly to brain dynamin I in a complex containing actin, tubulin and 14-3-3 isoforms

W. Suginta, N. Karoulias, A. Aitken and R.H. Ashley

55–64

Crystal structure of the wild-type and D30A mutant thioredoxin *h* of *Chlamydomonas reinhardtii* and implications for the catalytic mechanism

V. Menchise, C. Corbier, C. Didierjean, M. Saviano, E. Benedetti, J.-P. Jacquot and A. Aubry

65–75

Role of connective tissue growth factor in the pathogenesis of diabetic nephropathy

N.A. Wahab, N. Yevdokimova, B.S. Weston, T. Roberts, X.J. Li, H. Brinkman and R.M. Mason

77–87

Uptake and intracellular transport of the connective tissue growth factor: a potential mode of action

N.A. Wahab, H. Brinkman and R.M. Mason

89–97

A *Drosophila* haemocyte-specific protein, hemolectin, similar to human von Willebrand factor

A. Goto, T. Kumagai, C. Kumagai, J. Hirose, H. Narita, H. Mori, T. Kadowaki, K. Beck and Y. Kitagawa

99–108

RGS18 is a myeloerythroid lineage-specific regulator of G-protein-signalling molecule highly expressed in megakaryocytes

D. Yowe, N. Weich, M. Prabhudas, L. Poisson, P. Errada, R. Kapeller, K. Yu, L. Faron, M. Shen, J. Cleary, T.M. Wilkie, C. Gutierrez-Ramos and M.R. Hodge

109–118

Tumour necrosis factor- α activation of protein kinase B in WEHI-164 cells is accompanied by increased phosphorylation of Ser⁴⁷³, but not Thr³⁰⁸

A. O'Toole, S.K. Moule, P.J. Lockyer and A.P. Halestrap

119–127



Structure of the 5' region of the *Hst70* gene transcription unit: presence of an intron and multiple transcription initiation sites

D. Ściegłińska, W. Wiślak, W. Konopka, M. Poutanen, N. Rahman, I. Huhtaniemi and Z. Krawczyk

129–137

Nitric oxide inhibits mitochondrial NADH:ubiquinone reductase activity through peroxynitrite formation

N.A. Riobó, E. Clementi, M. Melani, A. Boveris, E. Cadenas, S. Moncada and J.J. Poderoso

139–145

Isolation, characterization and gene sequence analysis of a membrane-associated 89 kDa Fe(III) reducing cytochrome *c* from *Geobacter sulfurreducens*

T.S. Magnuson, N. Isoyama, A.L. Hodges-Myerson, G. Davidson, M.J. Maroney, G.G. Geesey and D.R. Lovley

147–152

A role for the perlecan protein core in the activation of the keratinocyte growth factor receptor	G. Ghiselli, I. Eichstetter and R.V. Iozzo	153–163
FYVE zinc-finger proteins in the plant model <i>Arabidopsis thaliana</i> : identification of PtdIns3P-binding residues by comparison of classic and variant FYVE domains	R.B. Jensen, T. La Cour, J. Albrethsen, M. Nielsen and K. Skriver	165–173
Identification and characterization of mutations in housefly (<i>Musca domestica</i>) acetylcholinesterase involved in insecticide resistance	S.B. Walsh, T.A. Dolden, G.D. Moores, M. Kristensen, T. Lewis, A.L. Devonshire and M.S. Williamson	175–182
Internal ribosome entry segment-mediated initiation of c-Myc protein synthesis following genotoxic stress	T. Subkhankulova, S.A. Mitchell and A.E. Willis	183–192
Regulatory elements in the <i>FBP1</i> promoter respond differently to glucose-dependent signals in <i>Saccharomyces cerevisiae</i>	O. Zaragoza, O. Vincent and J.M. Gancedo	193–201
Ligand-independent activation of oestrogen receptor α by caveolin-1	A. Schlegel, C. Wang, R.G. Pestell and M.P. Lisanti	203–210
Regulation of phospholipase D isoenzymes by transforming Ras and atypical protein kinase C- ι	J. Mwanjewe, M. Spitaler, M. Ebner, M. Windegger, M. Geiger, S. Kampfer, J. Hofmann, F. Überall and H.H. Grunicke	211–217
A precursor form of vascular endothelial growth factor arises by initiation from an upstream in-frame CUG codon	M.K. Tee and R.B. Jaffe	219–226
Lysophosphatidic acid promotes phorbol-ester-induced apoptosis in TF-1 cells by interfering with adhesion	J.-M. Lai, C.-Y. Lu, H.-F. Yang-Yen and Z.-F. Chang	227–233
Portable sulphotransferase domain determines sequence specificity of heparan sulphate 3-O-sulphotransferases	T. Yabe, D. Shukla, P.G. Spear, R.D. Rosenberg, P.H. Seeberger, N.W. Shworak	235–241
Human salivary agglutinin binds to lung surfactant protein-D and is identical with scavenger receptor protein gp-340	T.J.M. Ligtenberg, F.J. Bikker, J. Groenink, I. Tornøe, R. Leth-Larsen, E.C.I. Veerman, A.V. Nieuw Amerongen and U. Holmskov	243–248