

Biochemical Journal
Volume 350, part 2
1 September 2000

First published on the Internet
23 August 2000
<http://www.BiochemJ.org>

Review

- Sac phosphatase domain proteins**
by W.E. Hughes, F.T. Cooke and P.J. Parker

337–352

Research Papers

Comparison of the kinetic properties of the lipid- and protein-kinase activities of the p110 α and p110 β catalytic subunits of class-Ia phosphoinositide 3-kinases

C.A. Beeton, E.M. Chance, L.C. Foukas and P.R. Shepherd

353–359

L-Leucine availability regulates phosphatidylinositol 3-kinase, p70 S6 kinase and glycogen synthase kinase-3 activity in L6 muscle cells: evidence for the involvement of the mammalian target of rapamycin (mTOR) pathway in the L-leucine-induced up-regulation of System A amino acid transport

K. Peyrollier, E. Hajduch, A.S. Blair, R. Hyde and H.S. Hundal

361–368

Cloning, post-translational modifications, heterologous expression and ligand-binding of boar salivary lipocalin

D. Loebel, A. Scaloni, S. Paolini, C. Fini, L. Ferrara, H. Breer and P. Pelosi

369–379

Age-related accumulation of Maillard reaction products in human articular cartilage collagen

N. Verzijl, J. DeGroot, E. Oldehinkel, R.A. Bank, S.R. Thorpe, J.W. Baynes, M.T. Bayliss, J.W.J. Bijlsma, F.P.J.G. Lafeber and J.M. TeKoppele

381–387

Insulin effects on sterol regulatory-element-binding protein-1c (SREBP-1c) transcriptional activity in rat hepatocytes

D. Azzout-Marniche, D. Bécard, C. Guichard, M. Foretz, P. Ferré and F. Foufelle

389–393

A novel transcriptional factor with Ser/Thr kinase activity involved in the transforming growth factor (TGF)- β signalling pathway

S. Ohta, M. Takeuchi, M. Deguchi, T. Tsuji, Y. Gahara and K. Nagata

395–404

Polymorphism of the glutathione transferase subunit 3 in Sprague–Dawley rats involves a reactive cysteine residue

T. Kumano, J. Kimura, M. Hayakari, T. Yamazaki, D. Sawamura and S. Tsuchida

405–412

Cross-talk between receptors with intrinsic tyrosine kinase activity and α_{1b} -adrenoceptors

L. del Carmen Medina, J. Vázquez-Prado and J.A. García-Sáinz

413–419

Characterization of a cDNA encoding RP43, a CUB-domain-containing protein from the tube of *Riftia pachyptila* (Vestimentifera), and distribution of its transcript

L. Chamoy, M. Nicolai, B. Quennedey, F. Gaill and J. Delachambre

421–427

Human sphingosine kinase: purification, molecular cloning and characterization of the native and recombinant enzymes

S.M. Pitson, R.J. D'Andrea, L. Vandeleur, P.A.B. Moretti, P. Xia, J.R. Gamble, M.A. Vadas and B.W. Wattenberg

429–441

Physiological oxygen tensions modulate expression of the *mdr1b* multidrug-resistance gene in primary rat hepatocyte cultures

K.I. Hirsch-Ernst

443–451

Stanniocalcin 1 and 2 are secreted as phosphoproteins from human fibrosarcoma cells

D.A. Jellinek, A.C. Chang, M.R. Larsen, X. Wang, P.J. Robinson and R.R. Reddel

453–461

Purification of Golgi casein kinase from bovine milk

J.S. Duncan, M.C. Wilkinson and R.D. Burgoyne

463–468

Platelet-derived-growth-factor-induced signalling in human platelets: phosphoinositide-3-kinase-dependent inhibition of platelet activation

F. Selheim, M.H. Fukami, H. Holmsen and F.S. Vassbotn

469–475

New type of starch-binding domain: the direct repeat motif in the C-terminal region of <i>Bacillus</i> sp. no. 195 α -amylase contributes to starch binding and raw starch degrading	J.-i. Sumitani, T. Tottori, T. Kawaguchi and M. Arai	477–484
Monoclonal antibodies identify residues 199–216 of the integrin α 2 vWFA domain as a functionally important region within α 2 β 1	D.S. Tuckwell, L. Smith, M. Korda, J.A. Askari, S. Santoso, M.J. Barnes, R.W. Farndale and M.J. Humphries	485–493
The 72/74-kDa polypeptides of the 70–110 S large heterogeneous nuclear ribonucleoprotein complex (LH-nRNP) represent a discrete subset of the hnRNP M protein family	P. Kafasla, M. Patrinou-Georgoula and A. Guialis	495–503
Functional analysis of tumour necrosis factor- α -related apoptosis-inducing ligand (TRAIL): cysteine-230 plays a critical role in the homotrimerization and biological activity of this novel tumorcidal cytokine	C. Trabzuni, K.S. Famulski and M. Ahmad	505–510
Transcription of genes encoding pregnancy-specific glycoproteins is regulated by negative promoter-selective elements	G.M. Panzetta-Dutari, N.P. Koritschoner, J.L. Bocco, R. Nores, C.I. Dumur and L.C. Patriot	511–519
Kinetic and stereochemical studies on novel inactivators of C-terminal amidation	J. Feng, J. Shi, S.R. Sirimanne, C.E. Mounier-Lee and S.W. May	521–530
Multidrug resistance protein 1 regulates lipid asymmetry in erythrocyte membranes	D.W.C. Dekkers, P. Comfurius, R.G.J. van Gool, E.M. Bevers and R.F.A. Zwaal	531–535
Identification of copper ligands in <i>Aspergillus oryzae</i> tyrosinase by site-directed mutagenesis	M. Nakamura, T. Nakajima, Y. Ohba, S. Yamauchi, B.R. Lee and E. Ichishima	537–545
Differential effects of endurance training and creatine depletion on regional mitochondrial adaptations in rat skeletal muscle	D. Roussel, F. Lhenry, L. Ecochard, B. Sempore, J.-L. Rouanet and R. Favier	547–553
Multidrug resistance protein MRP1 protects against the toxicity of the major lipid peroxidation product 4-hydroxyxonenal	J. Renes, E.E.G. de Vries, G.J.E.J. Hooiveld, I. Krikken, P.L.M. Jansen and M. Müller	555–561
Internally quenched fluorescent peptide substrates disclose the subsite preferences of human caspases 1, 3, 6, 7 and 8	H.R. Stennicke, M. Renatus, M. Meldal and G.S. Salvesen	563–568
NMR structural determination of viscotoxin A3 from <i>Viscum album</i> L.	S. Romagnoli, R. Ugolini, F. Fogolari, G. Schaller, K. Urech, M. Giannattosio, L. Ragona and H. Molinari	569–577
A role for serine-175 in modulating the molecular conformation of calponin	J.-P. Jin, M.P. Walsh, C. Sutherland and W. Chen	579–588
Fetuin-B, a second member of the fetuin family in mammals	E. Olivier, E. Soury, P. Ruminy, A. Husson, F. Parmentier, M. Daveau and J.-P. Salier	589–597
Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism	J.R.B. Dyck, L.G. Berthiaume, P.D. Thomas, P.F. Kantor, A.J. Barr, R. Barr, D. Singh, T.A. Hopkins, N. Voilley, M. Prentki and G.D. Lopaschuk	599–608