

Biochemical Journal**Volume 357, part 1****1 July 2001**

First published on the Internet
25 June 2001
<http://www.BiochemJ.org>

Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes

Review

Functional role of polar amino acid residues in Na⁺/H⁺ exchangers
by C.A. Wiebe, E.R. DiBattista and L. Fliegel

1–10**Research Communication**

Cholesterol depletion reduces apical transport capacity in epithelial Madin–Darby canine kidney cells

K. Prydz and K. Simons

11–15**Research Papers**

Intracellular distribution of glycogen synthase and glycogen in primary cultured rat hepatocytes

M. García-Rocha, A. Roca, N. de la Iglesia, O. Baba,
J.M. Fernández-Novell, J.C. Ferrer and J.J. Guinovart**17–24**

Characterization of Sp17: a ubiquitous three domain protein that binds heparin

Y. Wen, R.T. Richardson, E.E. Widgren and M.G. O'Rand

25–31

The mouse *Nudt7* gene encodes a peroxisomal nudix hydrolase specific for coenzyme A and its derivatives

L. Gasmi and A.G. McLennan

33–38

Protein kinase C-δ C2-like domain is a binding site for actin and enables actin redistribution in neutrophils

G. López-Lluch, M.M. Bird, B. Canas,
J. Godovac-Zimmerman, A. Ridley, A.W. Segal and
L.V. Dekker**39–47**

Production and characterization of recombinant human CLN2 protein for enzyme-replacement therapy in late infantile neuronal ceroid lipofuscinosis

L. Lin and P. Lobel

49–55

Positional importance of Pro⁵³ adjacent to the Arg⁴⁹-Gly⁵⁰-Asp⁵¹ sequence of rhodostomatin in binding to integrin αIIbβ3

C.-P. Chang, J.-C. Chang, H.-H. Chang, W.-J. Tsai and
S.J. Lo**57–64**

Glutathione S-transferases as antioxidant defence agents confer pyrethroid resistance in *Nilaparvata lugens*

J.G. Vontas, G.J. Small and J. Hemingway

65–72

Identification of the glycosylation sites utilized on the V_{1a} vasopressin receptor and assessment of their role in receptor signalling and expression

S.R. Hawtin, A.R.L. Davies, G. Matthews and M. Wheatley

73–81

Functional roles and efficiencies of the thioredoxin boxes of calcium-binding proteins 1 and 2 in protein folding

B. Kramer, D.M. Ferrari, P. Klappa, N. Pöhlmann and
H.-D. Söling**83–95**

Transcriptional regulation of the human cystathionine β-synthase —1b basal promoter: synergistic transactivation by transcription factors NF-Y and Sp1/Sp3

Y. Ge, M.A. Konrad, L.H. Matherly and J.W. Taub

97–105

Activation of pro-(matrix metalloproteinase-2) (pro-MMP-2) by thrombin is membrane-type-MMP-dependent in human umbilical vein endothelial cells and generates a distinct 63 kDa active species

M.A. Lafleur, M.D. Hollenberg, S.J. Atkinson, V. Knäuper,
G. Murphy and D.R. Edwards**107–115**

Roles of triosephosphate isomerase and aerobic metabolism in *Trypanosoma brucei*

S. Helfert, A.M. Estévez, B. Bakker, P. Michels and
C. Clayton**117–125**

Molecular cloning and characterization of chemokine-like factor 1 (CKLF1), a novel human cytokine with unique structure and potential chemotactic activity	W. Han, Y. Lou, J. Tang, Y. Zhang, Y. Chen, Y. Li, W. Gu, J. Huang, L. Gui, Y. Tang, F. Li, Q. Song, C. Di, L. Wang, Q. Shi, R. Sun, D. Xia, M. Rui, J. Tang and D. Ma	127–135
Elevated extracellular [K ⁺] inhibits death-receptor- and chemical-mediated apoptosis prior to caspase activation and cytochrome c release	G.J. Thompson, C. Langlais, K. Cain, E.C. Conley and G.M. Cohen	137–145
Inhibition of HIV-1 gene expression by novel macrophage-tropic DNA enzymes targeted to cleave HIV-1 TAT/Rev RNA	H. Unwalla and A.C. Banerjea	147–155
Hsp70 regulates the interaction between the peroxisome targeting signal type 1 (PTS1)-receptor Pex5p and PTS1	T. Harano, S. Nose, R. Uezu, N. Shimizu and Y. Fujiki	157–165
The nematode <i>Caenorhabditis elegans</i> synthesizes unusual O-linked glycans: identification of glucose-substituted mucin-type O-glycans and short chondroitin-like oligosaccharides	Y. Guérardel, L. Balanzino, E. Maes, Y. Leroy, B. Coddeville, R. Oriol and G. Strecker	167–182
Isolation and characterization of the human stearoyl-CoA desaturase gene promoter: requirement of a conserved CCAAT <i>cis</i> -element	L. Zhang, L. Ge, T. Tran, K. Stenn and S.M. Prouty	183–193
Presteady-state kinetics of <i>Bacillus</i> 1,3-1,4- β -glucanase: binding and hydrolysis of a 4-methylumbelliferyl trisaccharide substrate	M. Abel, A. Planas and U. Christensen	195–202
Role of the cystine-knot motif at the C-terminus of rat mucin protein Muc2 in dimer formation and secretion	S.L. Bell, G. Xu and J.F. Forstner	203–209
Characterization of the cyanobacterial <i>ycf37</i> : mutation decreases the photosystem I content	A. Wilde, K. Lünser, F. Ossenbühl, J. Nickelsen and T. Börner	211–216
Structure–function analysis of purified <i>Enterococcus hirae</i> CopB copper ATPase: effect of Menkes/Wilson disease mutation homologues	K.-D. Bissig, H. Wunderli-Ye, P.W. Duda and M. Solioz	217–223
Active-site mutations impairing the catalytic function of the catalytic subunit of human protein phosphatase 2A permit baculovirus-mediated overexpression in insect cells	T. Myles, K. Schmidt, D.R.H. Evans, P. Cron and B.A. Hemmings	225–232
Homocysteine stimulates the expression of monocyte chemoattractant protein-1 receptor (CCR2) in human monocytes: possible involvement of oxygen free radicals	G. Wang and K. O	233–240
Ferritin and the response to oxidative stress	K. Orino, L. Lehman, Y. Tsuji, H. Ayaki, S.V. Torti and F.M. Torti	241–247
Transforming growth factor β -1 enhances Smad transcriptional activity through activation of p8 gene expression	A.C. García-Montero, S. Vasseur, L.E. Giono, E. Canepa, S. Moreno, J.C. Dagorn and J.L. Iovanna	249–253
Glucose regulates protein catabolism in <i>ras</i> -transformed fibroblasts through a lysosomal-dependent proteolytic pathway	C. Tournu, A. Obled, M.-P. Roux, M. Ferrara, S. Omura and D.M. Béchet	255–261
Relationships between inhibition constants, inhibitor concentrations for 50% inhibition and types of inhibition: new ways of analysing data	A. Cortés, M. Cascante, M.L. Cárdenas and A. Cornish-Bowden	263–268
Conformational stability and warfarin-binding properties of human serum albumin studied by recombinant mutants	H. Watanabe, U. Kragh-Hansen, S. Tanase, K. Nakajou, M. Mitarai, Y. Iwao, T. Maruyama and M. Otagiri	269–274
Fatty acids inhibit growth-factor-induced diacylglycerol kinase α activation in vascular smooth-muscle cells	X. Du, Y. Jiang, W. Qian, X. Lu and J.P. Walsh	275–282
Characterization of the reaction mechanism for the XL-I form of bovine liver xenobiotic/medium-chain fatty acid:CoA ligase	D.A. Vessey and M. Kelley	283–288

Analysis of a two-domain binding site for the urokinase-type plasminogen activator–plasminogen activator inhibitor-1 complex in low-density-lipoprotein-receptor-related protein	O.M. Andersen, H.H. Petersen, C. Jacobsen, S.K. Moestrup, M. Etzerodt, P.A. Andreasen and H.C. Thøgersen	289–296
Mitogen-activated protein kinases control p27/Kip1 expression and growth of human melanoma cells	M. Kortylewski, P.C. Heinrich, M.-E. Kauffmann, M. Böhm, A. Mackiewicz and I. Behrmann	297–303
Haem disorder in recombinant- and reticulocyte-derived haemoglobins: evidence for stereoselective haem insertion in eukaryotes	A.J. Mathews and T. Brittain	305–311
Glycopeptide <i>N</i> -acetylgalactosaminyltransferase specificities for O-glycosylated sites on MUC5AC mucin motif peptides	D. Tetaert, K.G. Ten Hagen, C. Richet, A. Boersma, J. Gagnon and P. Degand	313–320
Asparagine synthetase expression alone is sufficient to induce L-asparaginase resistance in MOLT-4 human leukaemia cells	A.M. Aslanian, B.S. Fletcher and M.S. Kilberg	321–328