

Research Papers

Proteins

- Regulation of N-linked core glycosylation: use of a site-directed mutagenesis approach to identify Asn-Xaa-Ser/Thr sequons that are poor oligosaccharide acceptors
 L. Kasturi, H. Chen and S.H. Shakjin-Eshleman **415–419**
- The amino-terminal module of the C4b-binding protein α -chain is crucial for C4b binding and factor I-cofactor function
 Y. Härdig, A. Hillarp and B. Dahlbäck **469–475**
- Biosynthesis of a low-molecular-mass rat submandibular gland mucin glycoprotein in COS7 cells
 K. Nehrke and L.A. Tabak **497–502**
- Amino acid sequence of the α subunit and computer modelling of the α and β subunits of echicetin from the venom of *Echis carinatus* (saw-scaled viper)
 J. Polgár, E.M. Magnenat, M.C. Peitsch, T.N.C. Wells, M.S.A. Saqi and K.J. Clemetson **533–537**
- Binding of A β to α - and β -synucleins: identification of segments in α -synuclein/NAC precursor that bind A β and NAC
 P.H. Jensen, P. Højrup, H. Hager, M.S. Nielsen, L. Jacobsen, O.F. Olesen, J. Gliemann and R. Jakes **539–546**
- FIP-vvo, a new fungal immunomodulatory protein isolated from *Volvariella volvacea*
 H.-C. Hsu, C.-I. Hsu, R.-H. Lin, C.-L. Kao and J.-Y. Lin **557–565**

Enzymes

- Cloning, sequencing and expression of rat liver 3-phosphoglycerate dehydrogenase
 Y. Achouri, M.H. Rider, E. Van Schaftingen and M. Robbi **365–370**
- Bivalent cations stabilize yeast alcohol dehydrogenase I
 X. De Bolle, C. Vinals, J. Fastrez and E. Feytmans **409–413**
- Characterization of the substrate specificity of the major cysteine protease (cruzipain) from *Trypanosoma cruzi* using a portion-mixing combinatorial library and fluorogenic peptides
 E. Del Nery, M.A. Juliano, M. Meldal, I. Svendsen, J. Scharfstein, A. Walmsley and L. Juliano **427–433**
- S-Nitrosoglutathione as a substrate for γ -glutamyl transpeptidase
 N. Hogg, R.J. Singh, E. Konorev, J. Joseph and B. Kalyanaraman **477–481**
- Inhibition of bovine nasal cartilage degradation by selective matrix metalloproteinase inhibitors
 K.M. Bottomley, N. Borkakoti, D. Bradshaw, P.A. Brown, M.J. Broadhurst, J.M. Budd, L. Elliott, P. Evers, T.J. Hallam, B.K. Handa, C.H. Hill, M. James, H.-W. Lahm, G. Lawton, J.E. Merritt, J.S. Nixon, U. Röthlisberger, A. Whittle and W.H. Johnson **483–488**
- Mass spectrometric analysis of rat ovary and testis cytosolic glutathione S-transferases (GSTs): identification of a novel class-Alpha GST, rGSTA6*, in rat testis
 C.-H. Hsieh, S.-P. Tsai, H.-I. Yeh, T.-C. Sheu and M.F. Tam **503–510**
- Peroxisome proliferator-induced acyl-CoA thioesterase from rat liver cytosol: molecular cloning and functional expression in Chinese hamster ovary cells
 S.T. Engberg, T. Aoyama, S.E.H. Alexson, T. Hashimoto and L.T. Svensson **525–531**
- Arabinanase A from *Pseudomonas fluorescens* subsp. *cellulosa* exhibits both an endo- and an exo- mode of action
 V.A. McKie, G.W. Black, S.J. Millward-Sadler, G.P. Hazlewood, J.I. Laurie and H.J. Gilbert **547–555**

Carbohydrates and lipids

- Structure of a truncated human surfactant protein D is less effective in agglutinating bacteria than the native structure and fails to inhibit haemagglutination by influenza A virus
 S. Eda, Y. Suzuki, T. Kawai, K. Ohtani, T. Kase, Y. Fujinaga, T. Sakamoto, T. Kurimura and N. Wakamiya **393–399**

Gene structure and expression

- A nonsense mutation in the 3-hydroxy-3-methylglutaryl lyase-CoA gene produces exon skipping in two patients of different origin with 3-hydroxy-3-methylglutaryl-CoA lyase deficiency
 J. Pié, N. Casals, C.H. Casale, C. Buesa, C. Mascaró, A. Barceló, M.-O. Rolland, T. Zabot, D. Haro, F. Eyskens, P. Divry and F.G. Hegardt **329–335**
- A zinc-dependent DNA-binding activity co-operates with cAMP-responsive-element-binding protein to activate the human thyroglobulin enhancer
 V. Berg, G. Vassart and D. Christophe **349–357**

ATP synthase subunit c expression: physiological regulation of the <i>P1</i> and <i>P2</i> genes	U. Andersson, J. Houštek and B. Cannon	379–385
Transgenic mice overexpressing ornithine and S-adenosylmethionine decarboxylases maintain a physiological polyamine homeostasis in their tissues	R. Heljasvaara, I. Veress, M. Halmektyö, L. Alhonen, J. Jänne, P. Laajala and A. Pajunen	457–462
Two different negative regulatory elements control the transcription of T-cell activation gene 3 in activated mast cells	C.K. Oh, M. Neurath, J.-J. Cho, T. Semere and D.D. Metcalfe	511–519
Regulation of metabolism		
Down-regulation of β 3-adrenergic receptor expression in rat adipose tissue during the fasted/fed transition: evidence for a role of insulin	K. El Hadri, C. Charon, J. Pairault, S. Hauguel-de Mouzon, A. Quignard-Boulangé and B. Fève	359–364
Diadenosine polyphosphate-stimulated gluconeogenesis in isolated rat proximal tubules	M. Edgecombe, H.S. Craddock, D.C. Smith, A.G. McLennan and Michael J. Fisher	451–456
Membranes and bioenergetics		
Selective inhibition of mitochondrial respiration and glycolysis in human leukaemic leucocytes by methylglyoxal	S. Biswas, M. Ray, S. Misra, D.P. Dutta and S. Ray	343–348
Involvement of disulphide bonds in the renal sodium/phosphate cotransporter NaPi-2	Y. Xiao, C.J.-C. Boyer, E. Vincent, A. Dugré, V. Vachon, M. Potier and R. Béliveau	401–408
Regulation by bivalent cations of phospholipid binding to the C2A domain of synaptotagmin III	M. Fukuda, T. Kojima and K. Mikoshiba	421–425
Receptors and signal transduction		
Mitogen-activated protein kinase phosphatase 1 inhibits the stimulation of gene expression by hypertrophic agonists in cardiac myocytes	S.J. Fuller, E.L. Davies, J. Gillespie-Brown, H. Sun and N.K. Tonks	313–319
Activation of cGMP-stimulated phosphodiesterase by nitroprusside limits cAMP accumulation in human platelets: effects on platelet aggregation	N.T. Dickinson, E.K. Jang and R.J. Haslam	371–377
Rapid Ca^{2+} influx induced by the action of dibutylhydroquinone and glucagon in the perfused rat liver	T.L. Applegate, A. Karjalainen and F.L. Bygrave	463–467
Stimulation of mucin exocytosis from human epithelial cells by nitric oxide: evidence for a cGMP-dependent and a cGMP-independent pathway	J.-E. Branka, G. Vallette, A. Jarry and C.L. Laboisie	521–524
Divergent effects of extracellular and intracellular alkalosis on Ca^{2+} entry pathways in vascular endothelial cells	I. Wakabayashi and K. Groschner	567–573
Cell biology and development		
Rat basophilic leukaemia (RBL) cells overexpressing Rab3a have a reversible block in antigen-stimulated exocytosis	J. Smith, N. Thompson, J. Thompson, J. Armstrong, B. Hayes, A. Crofts, J. Squire, C. Teahan, L. Upton and R. Solari	321–328
pH-dependent DNA cleavage in permeabilized human fibroblasts	S. Czene, M. Tibäck and M. Harms-Ringdahl	337–341
Requirement of γ -carboxyglutamic acid residues for the biological activity of Gas6: contribution of endogenous Gas6 to the proliferation of vascular smooth muscle cells	T. Nakano, K. Kawamoto, J. Kishino, K. Nomura, K.-i. Higashino and H. Arita	387–392
Identification and distribution of proteins in isolated endosomal fractions of rat liver: involvement in endocytosis, recycling and transcytosis	A. Pol, D. Ortega and C. Enrich	435–443
Endoplasmic reticulum Ca^{2+} is important for the proteolytic processing and intracellular transport of proinsulin in the pancreatic β -cell	P.C. Guest, E.M. Bailyes and J.C. Hutton	445–450
Promotion-resistant JB6 mouse epidermal cells exhibit defects in phosphatidylethanolamine synthesis and phorbol ester-induced phosphatidylcholine hydrolysis	Z. Kiss, B. Guyer and Z. Dong	489–495
BJ Letters		
Antibiotic resistance and neurotoxicity: a molecular link to neurotrophins	A.V. Vieira and P.M. Vieira	575–576