

Review

- Tetrahydrofolate and tetrahydromethanopterin compared: functionally distinct carriers in C_1 metabolism** 609–629
by B.E.H. Maden

Research Communication

- Coupling between inositol 1,4,5-trisphosphate receptors and human transient receptor potential channel 1 when intracellular Ca^{2+} stores are depleted J.A. Rosado and S.O. Sage 631–635

Research Papers

- Targeting of the zymogen-granule protein syncollin in AR42J and AtT-20 cells A. Hodel and J.M. Edwardson 637–643
- Overexpression of antizyme in the hearts of transgenic mice prevents the isoprenaline-induced increase in cardiac ornithine decarboxylase activity and polyamines, but does not prevent cardiac hypertrophy C.A. Mackintosh, D.J. Feith, L.M. Shantz and A.E. Pegg 645–653
- Peptide YY Y1 receptor activates mitogen-activated protein kinase and proliferation in gut epithelial cells via the epidermal growth factor receptor P.J. Mannon and J.M. Mele 655–661
- Disruption and overexpression of the *Schizosaccharomyces pombe aph1* gene and the effects on intracellular diadenosine 5',5'''-P¹,P⁴-tetrphosphate (Ap₄A), ATP and ADP concentrations S.W. Ingram and L.D. Barnes 663–669
- Function of the N-terminal propeptide of an aminopeptidase from *Vibrio proteolyticus* Z.-Z. Zhang, S. Nirasawa, Y. Nakajima, M. Yoshida and K. Hayashi 671–676
- Role of cationic amino acids in the Na⁺/dicarboxylate co-transporter NaDC-1 A.M. Pajor, E.S. Kahn and R. Gangula 677–683
- Characterization of homocysteine metabolism in the rat liver L.M. Stead, M.E. Brosnan and J.T. Brosnan 685–692
- A simple method for measuring the relative force exerted by myosin on actin filaments in the *in vitro* motility assay: evidence that tropomyosin and troponin increase force in single thin filaments W. Bing, A. Knott and S.B. Marston 693–699
- Surface-loop residue Lys³¹⁶ in blood coagulation Factor IX is a major determinant for Factor X but not antithrombin recognition J.A. Kolkman and K. Mertens 701–707
- Oxygen tension limits nitric oxide synthesis by activated macrophages C.C. McCormick, W.P. Li and M. Calero 709–716
- A new phosphospecific cell-based ELISA for p42/p44 mitogen-activated protein kinase (MAPK), p38 MAPK, protein kinase B and cAMP-response-element-binding protein H.H. Versteeg, E. Nijhuis, G.R. van den Brink, M. Evertzen, G.N. Pynaert, S.J.H. van Deventer, P.J. Coffey and M.P. Peppelenbosch 717–722
- Biogenesis of endoplasmic reticulum proteins involved in Ca^{2+} signalling during megakaryocytic differentiation: an *in vitro* study C. Lacabaratz-Porret, S. Launay, E. Corvazier, R. Bredoux, B. Papp and J. Enouf 723–734

Tumour-necrosis-factor-receptor-associated factor 6, NF- κ B-inducing kinase and I κ B kinases mediate IgE isotype switching in response to CD40	K. Brady, S. Fitzgerald and P.N. Moynagh	735–740
Definition of a minimal munc18c domain that interacts with syntaxin 4	J. Grusovin, V. Stoichevska, K.H. Gough, K. Nunan, C.W. Ward and S.L. Macaulay	741–746
The skin of atopic dermatitis patients contains a novel enzyme, glucosylceramide sphingomyelin deacylase, which cleaves the N-acyl linkage of sphingomyelin and glucosylceramide	K. Higuchi, J. Hara, R. Okamoto, M. Kawashima and G. Imokawa	747–756
Novel triterpenoids inhibit both DNA polymerase and DNA topoisomerase	Y. Mizushina, A. Iida, K. Ohta, F. Sugawara and K. Sakaguchi	757–763
Cloning of a human cDNA encoding a novel enzyme involved in the elongation of long-chain polyunsaturated fatty acids	A.E. Leonard, E.G. Bobik, J. Dorado, P.E. Kroeger, L.-T. Chuang, J.M. Thurmond, J.M. Parker-Barnes, T. Das, Y.-S. Huang and P. Mukerji	765–770
Activity and genomic organization of human glucose transporter 9 (GLUT9), a novel member of the family of sugar-transport facilitators predominantly expressed in brain and leucocytes	H. Doege, A. Bocianski, H.-G. Joost and A. Schürmann	771–776
<i>In vitro</i> glycooxidation alters the interactions between collagens and human polymorphonuclear leucocytes	J.-C. Monboisse, L. Rittie, H. Lamfarraj, R. Garnotel and P. Gillery	777–783
Contribution of steroidogenic factor 1 to the regulation of cholesterol synthesis	C. Mascaró, A. Nadal, F.G. Hegardt, P.F. Marrero and D. Haro	785–790
Thapsigargin suppresses phorbol ester-dependent human involucrin promoter activity by suppressing CCAAT-enhancer-binding protein α (C/EBP α) DNA binding	S. Balasubramanian, C. Agarwal, T. Efimova, G.R. Dubyak, E. Banks, J. Welter and R.L. Eckert	791–796
Biological effects of menadione photochemistry: effects of menadione on biological systems may not involve classical oxidant production	M.L. McCormick, G.M. Denning, K.J. Reszka, P. Bilski, G.R. Buettner, G.T. Rasmussen, M.A. Railsback and B.E. Britigan	797–804
Identification of transient glycosylation alterations of sialylated mucin oligosaccharides during infection by the rat intestinal parasite <i>Nippostrongylus brasiliensis</i>	N.G. Karlsson, F.J. Olson, P.-Å. Jovall, Y. Andersch, L. Enerbäck and G.C. Hansson	805–814
Photoaffinity labelling with P ³² -(4-azidoanilido)uridine 5'-triphosphate identifies Gpi3p as the UDP-GlcNAc-binding subunit of the enzyme that catalyses formation of GlcNAc-phosphatidylinositol, the first glycolipid intermediate in glycosylphosphatidylinositol synthesis	Z. Kostova, D.M. Rancour, A.K. Menon and P. Orlean	815–822
Functional and molecular modelling studies of two hereditary fructose intolerance-causing mutations at arginine 303 in human liver aldolase	R. Santamaria, G. Esposito, L. Vitagliano, V. Race, I. Paglionico, L. Zancan, A. Zagari and F. Salvatore	823–828
Role of endocytosis in the transactivation of nuclear factor- κ B by oxidized low-density lipoprotein	C.-Y. Han, S.-Y. Park and Y.K. Pak	829–837
Requirement of N-glycosylation of the prostaglandin E ₂ receptor EP β for correct sorting to the plasma membrane but not for correct folding	U. Böer, F. Neuschäfer-Rube, U. Möller and G.P. Püschel	839–847
Role of Pro-297 in the catalytic mechanism of sheep liver serine hydroxymethyltransferase	R. Talwar, V. Leelavathy, J.V. Krishna Rao, N. Appaji Rao and H.S. Savithri	849–853
Evidence for a Menkes-like protein with a nuclear targeting sequence	M.C.M. Reddy, S. Majumdar and E.D. Harris	855–863
Cloning, characterization and tissue distribution of the rat ATP-binding cassette (ABC) transporter ABC2/ABCA2	L.-X. Zhao, C.-J. Zhou, A. Tanaka, M. Nakata, T. Hirabayashi, T. Amachi, S. Shioda, K. Ueda and N. Inagaki	865–872
Calcium-dependent conformational stability of modules 1 and 2 of human gelsolin	A. Zapun, S. Grammatyka, G. Déral and T. Vernet	873–881
Cytosine methylation of an Sp1 site contributes to organ-specific and cell-specific regulation of expression of the lung epithelial gene <i>T1α</i>	Y.-X. Cao, J.-C. Jean and M.C. Williams	883–890

Sustained activation of p42/p44 mitogen-activated protein kinase during recovery from simulated ischaemia mediates adaptive cytoprotection in cardiomyocytes	A. Punn, J.W. Mockridge, S. Farooqui, M.S. Marber and R.J. Heads	891–899
Diffusion control of protein phosphorylation in signal transduction pathways	B.N. Kholodenko, G.C. Brown and J.B. Hoek	901–907
The chloride effect is related to anion binding in determining the rate of iron release from the human transferrin N-lobe	Q.-Y. He, A.B. Mason, V. Nguyen, R.T.A. MacGillivray and R.C. Woodworth	909–915
Kinetics and thermodynamics of activation of quinoprotein glucose dehydrogenase apoenzyme <i>in vivo</i> and catalytic activity of the activated enzyme in <i>Escherichia coli</i> cells	D. Iswantini, K. Kano and T. Ikeda	917–923
The β -subunit of the hepatocyte growth factor/scatter factor (HGF/SF) receptor phosphorylates and associates with CrklI: expression of CrklI enhances HGF/SF-induced mitogenesis	S.M. Riordan, S. Lidder, R. Williams and G.G. Skouteris	925–932
A novel mechanism of xylan binding by a lectin-like module from <i>Streptomyces lividans</i> xylanase 10A	A.B. Boraston, P. Tomme, E.A. Amandoron and D.G. Kilburn	933–941
Correction		
Targeting motifs and functional parameters governing the assembly of connexins into gap junctions by P.E. Martin, J. Steggle, C. Wilson, S. Ahmad and W.H. Evans (volume 349, pages 281–287, 2000)		943