

Review

- Meaningful relationships: the regulation of the Ras/Raf/MEK/ERK pathway by protein interactions** 289–305
by W. Kolch

Research Communication

- AMP decrease the efficiency of skeletal-muscle mitochondria 307–311
S. Cadenas, J.A. Buckingham, J. St-Pierre, K. Dickinson, R.B. Jones and M.D. Brand

Research Papers

- Impaired reductive regeneration of ascorbic acid in the Goto–Kakizaki diabetic rat 313–318
M. Kashiba, J. Oka, R. Ichikawa, A. Kageyama, T. Inayama, H. Kageyama, T. Ishikawa, M. Nihikimi, M. Inoue and S. Inoue
- Anti-(herpes simplex virus) activity of 4'-thio-2'-deoxyuridines: a biochemical investigation for viral and cellular target enzymes 319–326
A. Verri, F. Focher, R. J. Duncombe, I. Basnak, R.T. Walker, P.L. Coe, E. De Clercq, G. Andrei, R. Snoeck, J. Balzarini and S. Spadari
- Ischaemia induces changes in the association of the binding protein 4E-BP1 and eukaryotic initiation factor (eIF) 4G to eIF4E in differentiated PC12 cells 327–334
M.E. Martín, F.M. Muñoz, M. Salinas and J.L. Fando
- 'pH-jump' crystallographic analyses of γ -lactam–porcine pancreatic elastase complexes 335–340
P.A. Wright, R.C. Wilmouth, I.J. Clifton and C.J. Schofield
- Evaluation of the role of two conserved active-site residues in Beta class glutathione S-transferases 341–346
N. Allocati, E. Casalone, M. Masulli, G. Polekhina, J. Rossjohn, M.W. Parker and C. Di Ilio
- Receptor-activity-modifying protein 1 forms heterodimers with two G-protein-coupled receptors to define ligand recognition 347–351
K. Leuthäuser, R. Gujer, A. Aldecoa, R.A. McKinney, R. Muff, J.A. Fischer and W. Born
- Identification and characterization of a silencer regulatory element in the 3'-flanking region of the murine CD46 gene 353–365
M. Nomura, A. Tsujimura, N.A. Begum, M. Matsumoto, H. Wabiko, K. Toyoshima and T. Seya
- The tissue-specific regulation of the carboxyl ester lipase gene in exocrine pancreas differs significantly between mouse and human 367–376
M. Kannius-Janson, U. Lidberg, G. Bjursell and J. Nilsson
- A mammalian cytochrome fused to a chloroplast transit peptide is a functional haemoprotein and is imported into isolated chloroplasts 377–384
Y.-Y. Liu, N. Kaderbhai and M.A. Kaderbhai
- Characterization of the human liver fructose-1,6-bisphosphatase gene promoter 385–392
B. Herzog, M. Waltner-Law, D.K. Scott, K. Eschrich and D.K. Granner
- DNA repair protein O⁶-alkylguanine-DNA alkyltransferase is phosphorylated by two-distinct and novel protein kinases in human brain tumour cells 393–402
S.R.S. Mullanpudi, F. Ali-Osman, J. Shou and K.S. Srivenugopal
- Molecular characterization of human tensin 403–411
H. Chen, A. Ishii, W.-K. Wong, L.B. Chen and S.H. Lo
- Regulation of calpain and calpastatin in differentiating myoblasts: mRNA levels, protein synthesis and stability 413–420
S. Barnoy, L. Supino-Rosin and N.S. Kosower
- Macromolecular organization of saliva: identification of 'insoluble' MUC5B assemblies and non-mucin proteins in the gel phase 421–428
C. Wickström, C. Christersson, J.R. Davies and I. Carlstedt

Tyrosine kinases activate store-mediated Ca ²⁺ entry in human platelets through the reorganization of the actin cytoskeleton	J.A. Rosado, D. Graves and S.O. Sage	429–437
Effect of spermine synthase deficiency on polyamine biosynthesis and content in mice and embryonic fibroblasts, and the sensitivity of fibroblasts to 1,3-bis-(2-chloroethyl)- <i>N</i> -nitrosourea	C.A. Mackintosh and A.E. Pegg	439–447
Mechanism of binding of surfactant protein D to influenza A viruses: importance of binding to haemagglutinin to antiviral activity	K.L. Hartshorn, M.R. White, D.R. Voelker, J. Coburn, K. Zaner and E.C. Crouch	449–457
Phosphatidylcholine-specific phospholipase C and phospholipase D are respectively implicated in mitogen-activated protein kinase and nuclear factor κ B activation in tumour-necrosis-factor- α -treated immature acute-myeloid-leukaemia cells	I. Plo, D. Lautier, T. Levade, H. Sekouri, J.P. Jaffrézou, G. Laurent and A. Bettaïeb	459–467
Cloning and characterization of full-length mouse thymidine kinase 2: the N-terminal sequence directs import of the precursor protein into mitochondria	L. Wang and S. Eriksson	469–476
The Fe(II) permease Fet4p functions as a low affinity copper transporter and supports normal copper trafficking in <i>Saccharomyces cerevisiae</i>	R. Hassett, D.R. Dix, D.J. Eide and D.J. Kosman	477–484
Nitric oxide inhibits isoproterenol-stimulated adipocyte lipolysis through oxidative inactivation of the β -agonist	P. Klatt, J. Cacho, M.D. Crespo, E. Herrera and P. Ramos	485–493
Inhibitor by etomoxir of rat liver carnitine octanoyltransferase is produced through the co-ordinate interaction with two histidine residues	M. Morillas, J. Clotet, B. Rubí, D. Serra, J. Ariño, F.G. Hegardt and G. Asins	495–502
α_2 -Macroglobulin modulates the immunoregulatory function of the lipocalin placental protein 14	G.J. Riely, J. Rachmilewitz, P.H. Koo and M.L. Tykocinski	503–508
Purified recombinant insulin-degrading enzyme degrades amyloid β -protein but does not promote its oligomerization	V. Chesneau, K. Vekrellis, M.R. Rosner and D.J. Selkoe	509–516
The biochemical characterization of aggrecan from normal and tibial-dyschondroplastic chicken-plate cartilage	C. Tselepis, A.P.L. Kwan, D. Thornton and J. Sheehan	517–525
Proteins of the endoplasmic-reticulum-associated degradation pathway: domain detection and function prediction	C.P. Ponting	527–535
Identification of a novel 45 kDa protein (JP-45) from rabbit sarcoplasmic-reticulum junctional-face membrane	F. Zorzato, A.A. Anderson, K. Ohlendieck, G. Froemming, R. Guerrini and S. Treves	537–543