

Review

The vacuolar H⁺-ATPase: a universal proton pump of eukaryotes
by M.E. Finbow and M.A. Harrison **691–712**

Research Papers**Proteins**

- Tridegin, a new peptidic inhibitor of factor XIIIa, from the blood-sucking leech *Haementeria ghilianii* S. Finney, L. Seale, R.T. Sawyer and R.B. Wallis **797–805**
- The binding-site sizes of *Escherichia coli* single-stranded-DNA-binding protein and mammalian replication protein A are 65 and ≥ 54 nucleotides respectively M. Mitas, J.Y. Chock and M. Christy **957–961**

Enzymes

- Mechanism-based inactivation of lacrimal-gland peroxidase by phenylhydrazine: a suicidal substrate to probe the active site A. Mazumdar, S. Adak, R. Chatterjee and R.K. Banerjee **713–719**
- Mode of inhibition of HIV reverse transcriptase by 2-hexaprenylhydroquinone, a novel general inhibitor of RNA- and DNA-directed DNA polymerases S. Loya, A. Rudi, Y. Kashman and A. Hizi **721–727**
- Studies of cellulose binding by cellobiose dehydrogenase and a comparison with cellobiohydrolase 1 G. Henriksson, A. Salumets, C. Divne and G. Pettersson **833–838**
- Specificity and kinetic effects of nitrophenol analogues that activate myosin subfragment 1 V.P. Salerno, A.S. Ribeiro, A.N. Dinucci, J.A. Mignaco and M.M. Sorenson **877–884**
- Plasmodium falciparum* CTP:phosphocholine cytidyltransferase expressed in *Escherichia coli*: purification, characterization and lipid regulation H.-J. Yeo, M.-P. Larvor, M.-L. Ancelin and H.J. Vial **903–910**
- Modulation of cathepsin D activity in retinal pigment epithelial cells P.E. Rakoczy, C.M. Lai, M. Baines, S. Di Grandi, J.H. Fitton and I.J. Constable **935–940**
- Purification and properties of α -mannosidase II from Golgi-like membranes of baculovirus-infected *Spodoptera frugiperda* (IPLB-SF-21AE) cells J. Ren, F.J. Castellino and R.K. Bretthauer **951–956**
- A surface-plasmon-resonance analysis of polylysine interactions with a peptide substrate of protein kinase CK2 and with the enzyme M.J. Benítez, G. Mier, F. Briones, F.J. Moreno and J.S. Jiménez **987–994**

Carbohydrates and lipids

- Expression of a variant surface glycoprotein of *Trypanosoma gambiense* in procyclic forms of *Trypanosoma brucei* shows that the cell type dictates the nature of the glycosylphosphatidylinositol membrane anchor attached to the glycoprotein F. Paturiaux-Hanocq, N. Zitzmann, J. Hanocq-Quertier, L. Vanhamme, S. Rolin, M. Geuskens, M.A.J. Ferguson and E. Pays **885–895**

Gene structure and expression

- Regulatory domains of the A-Myb transcription factor and its interaction with the CBP/p300 adaptor molecules V. Facchinetti, L. Loffarelli, S. Schreek, M. Oelgeschläger, B. Lüscher, M. Introna and J. Golay **729–736**
- Inhibition of the expression of ornithine decarboxylase and c-Myc by cell-permeant ceramide in difluoromethylornithine-resistant leukaemia cells F. Flamigni, I. Faenza, S. Marmiroli, I. Stanic, A. Giaccari, C. Muscari, C. Stefanelli and C. Rossoni **783–789**
- Structure, organization and expression of the mouse ornithine decarboxylase antizyme gene K. Kankare, M. Uusi-Oukari and O.A. Jänne **807–813**
- Construction, expression and characterization of chimaeric toxins containing the ribonucleolytic toxin restrictocin: intracellular mechanism of action D. Rathore and J.K. Batra **815–822**
- Stimulation of transcription *in vitro* from a liver-specific promoter by human glucocorticoid receptor (hGR α) G. Schweizer-Groyer, F. Cadepond, N. Jibard, E. Neau, I. Segard-Maurel, E.-E. Baulieu and A. Groyer **823–831**
- Identification of a minimal promoter element of the mouse epidermal growth factor gene J.C. Pascall and K.D. Brown **869–875**

Members of the nuclear factor 1 family and hepatocyte nuclear factor 4 bind to overlapping sequences of the L-II element on the rat pyruvate kinase L gene promoter and regulate its expression	K. Yamada, T. Tanaka and T. Noguchi	917–925
Gene structure and function analysis of the human Na ⁺ /phosphate co-transporter	Y. Taketani, K.-I. Miyamoto, K. Tanaka, K. Katai, M. Chikamori, S. Tatsumi, H. Segawa, H. Yamamoto, K. Morita and E. Takeda	927–934
Type 1 ribosome-inactivating proteins are the most abundant proteins in iris (<i>Iris hollandica</i> var. Professor Blaauw) bulbs: characterization and molecular cloning	E.J.M. Van Damme, A. Barre, L. Barbieri, P. Valbonesi, P. Rouge, F. Van Leuven, F. Stirpe and W.J. Peumans	963–970
Regulation of metabolism		
Validation and steady-state analysis of a power-law model of purine metabolism in man	R. Curto, E.O. Voit, A. Sorribas and M. Cascante	761–775
Expression of human cholesterol 7 α -hydroxylase in atherosclerosis-susceptible mice via adenovirus infection	G.L. Moore, C.A. Devon, D. Machleder, J.D. Trawick, A. McClelland, S. Roy, R. Lyons, R. Jambou and R.A. Davis	863–867
Selective release of human adipocyte fatty acids according to molecular structure	T. Raclot, D. Langin, M. Lafontan and R. Groscolas	911–915
Increased flux through the hexosamine biosynthesis pathway inhibits glucose transport acutely by activation of protein kinase C	A. Filippis, S. Clark and J. Proietto	981–985
Membranes and bioenergetics		
Comparison of the ligand-binding properties of native and copper-less cytochromes <i>bo</i> from <i>Escherichia coli</i>	A.J. Moody, R. Mitchell, A.E. Jeal and P.R. Rich	743–752
Receptors and signal transduction		
Evidence for glutathione involvement in platelet-derived growth-factor-mediated signal transduction	S. Rigacci, T. Iantomasi, P. Marraccini, A. Berti, M.T. Vincenzini and G. Ramponi	791–796
Insulin stimulates tyrosine phosphorylation of the proto-oncogene product of c-Cbl in 3T3-L1 adipocytes	V. Ribon and A.R. Saltiel	839–846
Receptor dimerization is not a factor in the signalling activity of a transforming variant epidermal growth factor receptor (EGFRvIII)	C.T. Chu, K.D. Everiss, C.J. Wikstrand, S.K. Batra, H.-J. Kung and D.D. Bigner	855–861
1-O-Octadecyl-2-O-methylglycerophosphocholine inhibits protein kinase C-dependent phosphorylation of endogenous proteins in MCF-7 cells	X. Zhou and G. Arthur	897–902
Characterization and purification of neutrophil <i>ecto</i> -phosphatidic acid phosphohydrolase	D. English, M. Martin, K.A. Harvey, L.P. Akard, R. Allen, T.S. Widlanski, J.G.N. Garcia and R.A. Siddiqui	941–950
Oligomycin inhibits store-operated channels by a mechanism independent of its effects on mitochondrial ATP	J.H. Cho, M. Balasubramanyam, G. Chernaya, J.P. Gardner, A. Aviv, J.P. Reeve, P.G. Dargis and E.P. Christian	971–980
Cell biology and development		
Interferon α_2 recombinant and epidermal growth factor modulate proliferation and hypusine synthesis in human epidermoid cancer KB cells	M. Caraglia, A. Passeggio, S. Beninati, A. Leardi, L. Nicolini, S. Improta, A. Pinto, A.R. Bianco, P. Tagliaferri and A. Abbruzzese	737–741
Age-related changes in effects of insulin-like growth factor I on human osteoblast-like cells	P.Y. d'Avis, C.R. Frazier, J.R. Shapiro and N.S. Fedarko	753–760
Mechanism of apoptotic cell death of human gastric carcinoma cells mediated by transforming growth factor β	S. Ohta, K. Yanagihara and K. Nagata	777–782
α -Difluoromethylornithine-resistant cell lines obtained after one-step selection of <i>Leishmania mexicana</i> promastigote cultures	C.P. Sánchez, J. Mucci, N.S. González, A. Ochoa, M.M. Zakin and I.D. Algranati	847–853
BJ Letters		
A self-consistent mechanism for dealkylation in soman-inhibited acetylcholinesterase	I.M. Kovach, R. Akhmetshin, I.J. Enyedy and C. Viragh	995–996
Aging of somanyl–acetylcholinesterase adducts: facts and models	A. Shafferman, A. Ordentlich, D. Barak, D. Stein, N. Ariel and B. Velan	996–998

Corrections

- Translation of Ser¹⁶ and Thr¹⁷ phosphorylation of phospholamban into Ca²⁺-pump stimulation
by W.A. Jackson and J. Colyer (volume 316, pages 201–207, 1996) **999**
- Formation of peroxide- and globin-derived radicals from the reaction of methaemoglobin and metmyoglobin and t-hydroperoxide: an ESR spin-trapping investigation
by J. Van der Zee (volume 322, pages 633–639, 1997) **999**