

Review

- Mitochondrial ribosomal proteins (MRPs) of yeast** **433–448**
 by H.-R. Graack and B. Wittmann-Liebold

Research Communication

- NADPH oxidase of chondrocytes contains an isoform of the gp91^{phox} subunit **449–451**
 P.J. Moulton, M.B. Goldring and J.T. Hancock

Research Papers

Proteins

- Hereditary cystatin C amyloid angiopathy: monitoring the presence of the Leu-68 → Gln cystatin C variant in cerebrospinal fluids and monocyte cultures by MS **497–503**
 B. Ásgeirsson, S. Haebel, L. Thorsteinsson, E. Helgason, K.O. Gudmundsson, G. Gudmundsson and P. Roepstorff
- Probing of conformational changes in human O⁶-alkylguanine-DNA alkyl transferase protein in its alkylated and DNA-bound states by limited proteolysis **545–550**
 S. Kanugula, K. Goodtzova and A.E. Pegg
- Characterization and sugar-binding properties of arcelin-1, an insecticidal lectin-like protein isolated from kidney bean (*Phaseolus vulgaris* L. cv. RAZ-2) seeds **551–560**
 C. Fabre, H. Causse, L. Mourey, J. Koninx, M. Rivière, H. Hendriks, G. Puzo, J.-P. Samama and P. Rougé
- Human insulin production from a novel mini-proinsulin which has high receptor-binding activity **631–635**
 S.-G. Chang, D.-Y. Kim, K.-D. Choi, J.-M. Shin and H.-C. Shin
- Native conformations of human complement components C3 and C4 show different dependencies on thioester formation **705–712**
 L. Isaac, D. Aivazian, A. Taniguchi-Sidle, R.O. Ebanks, C.S. Farah, M.P.C. Florido, M.K. Pangburn and D.E. Isenman

Enzymes

- Osmotic stress induces variation in cellular levels of ornithine decarboxylase-antizyme **453–459**
 J.L.A. Mitchell, G.G. Judd, A. Leyser and C.-y. Choe
- Identification of cardiac oxidoreductase(s) involved in the metabolism of the lipid peroxidation-derived aldehyde-4-hydroxynonenal **469–475**
 S. Srivastava, A. Chandra, N.H. Ansari, S.K. Srivastava and A. Bhatnagar
- Drosophila melanogaster* alcohol dehydrogenase: mechanism of aldehyde oxidation and dismutation **561–570**
 J.-O. Winberg and J.S. McKinley-McKee
- Reverse transcriptase of mouse mammary tumour virus: expression in bacteria, purification and biochemical characterization **579–587**
 R. Taube, S. Loya, O. Avidan, M. Perach, and Hizi, A.
- Selectivity of post-translational modification in biotinylated proteins: the carboxy carrier protein of the acetyl-CoA carboxylase of *Escherichia coli* **587–596**
 P. Reche, Y.-L. Li, C. Fuller, K. Eichhorn and R.N. Perham
- Molecular cloning and characterization of a mitochondrial peroxisome proliferator-induced acyl-CoA thioesterase from rat liver **601–608**
 L.T. Svensson, S.T. Engberg, T. Aoyama, N. Usuda, S.E.H. Alexson and T. Hashimoto
- Cloning, differential regulation and tissue distribution of alternatively spliced isoforms of ADP-ribosylation-factor-dependent phospholipase D from rat liver **647–652**
 K. Katayama, T. Kodaki, Y. Nagamachi and S. Yamashita
- Tumour necrosis factor α activates a p22^{phox}-based NADH oxidase in vascular smooth muscle **653–657**
 G.W. De Keulenaer, R.W. Alexander, M. Ushio-Fukai, N. Ishizaka and K.K. Griendling
- Cloning and expression of the gene for the active PP_i-dependent phosphofructokinase of *Entamoeba histolytica* **659–664**
 Z. Deng, M. Huang, K. Singh, R.A. Albach, S.P. Latshaw, K.-P. Chang and R.G. Kemp

Analysis of the combined effect of two linear inhibitors on a single enzyme	J.J. Martínez-Irujo, M.L. Villahermosa, J. Mercapide, J.F. Cabodevilla and E. Santiago	689–698
Carbohydrates and lipids		
Sulphation of N-linked oligosaccharides of vesicular stomatitis and influenza virus envelope glycoproteins: host cell specificity, subcellular localization and identification of substituted saccharides	V.K. Karaivanova and R.G. Spiro	511–518
Glycoinositol phospholipids from <i>Endotrypanum</i> species express epitopes in common with saccharide side chains of the lipophosphoglycan from <i>Leishmania major</i>	E. Xavier da Silveira, C. Jones, R. Wait, J.O. Previato and L. Mendonça-Previato	665–673
Gene structure and expression		
cAMP/phorbol ester response element is involved in transcriptional regulation of the human replacement histone gene H3.3B	O. Witt, W. Albig and D. Doenecke	609–613
tRNA is entrapped in similar, but distinct, nuclear and cytoplasmic ribonucleoprotein complexes, both of which contain vigilin and elongation factor 1 α	C. Kruse, A. Grünweller, D.K. Willkomm, T. Pfeiffer, R.K. Hartmann and P.K. Müller	615–621
Identification of a novel mouse hepatic 52 kDa protein that interacts with the cAMP response element of the rat angiotensinogen gene	J. Wu, Q. Jiang, X. Chen, X.-H. Wu and J.S.D. Chan	623–629
Regulation of metabolism		
Effect of long-term treatment of 3T3-L1 adipocytes with chlorate on the synthesis, glycosylation, intracellular transport and secretion of lipoprotein lipase	H. Masuno, K. Sakayama and H. Okuda	461–468
Analysis of abnormalities in purine metabolism leading to gout and to neurological dysfunctions in man	R. Curto, E.O. Voit and M. Cascante	477–487
Capacity for repeatable leukotriene generation after transient stimulation of mast cells and macrophages	T.G. Brock, R.W. McNish and M. Peters-Golden	519–525
Suppressive effect of insulin on the synthesis of sucrase–isomaltase complex in small intestinal epithelial cells, and abnormal increase in the complex under diabetic conditions	M. Takenoshita, R. Yamaji, H. Inui, K. Miyatake and Y. Nakano	597–600
Contribution of newly synthesized cholesterol to rat plasma and bile determined by mass isotopomer distribution analysis: bile-salt flux promotes secretion of newly synthesized cholesterol into bile	R.H.J. Bandsman, F. Stellaard, R.J. Vonk, G.T. Nagel, R.A. Neese, M.K. Hellerstein and F. Kuipers	699–703
Membranes and bioenergetics		
A conserved tryptophan in pneumolysin is a determinant of the characteristics of channels formed by pneumolysin in cells and planar lipid bilayers	Y.E. Korchev, C.L. Bashford, C. Pederzoli, C.A. Pasternak, P.J. Morgan, P.W. Andrew and T.J. Mitchell	571–577
Interaction of phosphatidic acid and phosphatidylserine with the Ca ²⁺ -ATPase of sarcoplasmic reticulum and the mechanism of inhibition	K.A. Dalton, J.M. East, S. Mall, S. Oliver, A.P. Starling and A.G. Lee	637–646
Receptors and signal transduction		
Inhibition of inositol trisphosphate-induced calcium release by cyclic ADP-ribose in A7r5 smooth-muscle cells and in 16HBE14o-bronchial mucosal cells	L. Missiaen, J.B. Parys, H. de Smedt, I. Sienaert, H. Sipma, S. Vanlingen, K. Maes, K. Kunzelmann and R. Casteels	489–495
Binding of cGMP to both allosteric sites of cGMP-binding cGMP-specific phosphodiesterase (PDE5) is required for its phosphorylation	I.V. Turko, S.H. Francis and J.D. Corbin	505–510
Intercellular calcium signalling between chondrocytes and synovial cells in co-culture	P. D'Andrea, A. Calabrese and M. Grandolfo	681–687
Hydrogen bonding changes of internal water molecules in rhodopsin during metarhodopsin I and metarhodopsin II formation	P. Rath, F. Delange, W.J. Degrip and K.J. Rothschild	713–717

Cell biology and development

Endogenous syntaxins 2, 3 and 4 exhibit distinct but overlapping patterns of expression at the hepatocyte plasma membrane	H. Fujita, P.L. Tuma, C.M. Finnegan, L. Locco and A.L. Hubbard	527–538
Evidence for the ability of nucleophosmin/B23 to bind ATP	J.H. Chang, J.Y. Lin, M.H. Wu and B.Y.M. Yung	539–544
Synthesis and secretion of the pancreatic-type carboxyl ester lipase by human endothelial cells	F. Li and D.Y. Hui	675–679

Correction

A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities by J.A. Campbell, G.J. Davies, V. Bulone and B. Henrissat (volume 326, pages 929–939, 1997)		719
---	--	------------