

Review Article

- Signal-dependent membrane targeting by pleckstrin homology (PH) domains** 1–18
by M. A. Lemmon and K. M. Ferguson

Research Communications

- RGS14 is a novel Rap effector that preferentially regulates the GTPase activity of $G\alpha_0$ 19–29
S. Traver, C. Bidot, N. Spassky, T. Baltauss, M.-F. de Tand, J.-L. Thomas, B. Zalc, I. Janoueix-Lerosey and J. de Gunzburg
- The influence of secretory-protein charge on late stages of secretion from the Gram-positive bacterium *Bacillus subtilis* 31–39
K. Stephenson, C.L. Jensen, S.T. Jørgensen, J.H. Lakey and C.R. Harwood

Research Papers

- Band 3 mutations, renal tubular acidosis and South-East Asian ovalocytosis in Malaysia and Papua New Guinea: loss of up to 95% band 3 transport in red cells 41–51
L.J. Bruce, O. Wrong, A.M. Toye, M.T. Young, G. Ogle, Z. Ismail, A.K. Sinha, P. McMaster, I. Hwaihwanje, G.B. Nash, S. Hart, E. Lavu, R. Palmer, A. Othman, R.J. Unwin and M.J.A. Tanner
- Red-cell glycophorin A–band 3 interactions associated with the movement of band 3 to the cell surface 53–60
M.T. Young, R. Beckmann, A.M. Toye and M.J.A. Tanner
- Malonyl-CoA metabolism in cardiac myocytes 61–67
C. Hamilton and E.D. Saggerson
- Mutagenesis studies on the sensitivity of *Escherichia coli* acetohydroxyacid synthase II to herbicides and valine 69–73
Y.-T. Lee and R.G. Duggleby
- Characterization of derivatives of the high-molecular-mass penicillin-binding protein (PBP) 1 of *Mycobacterium leprae* 75–80
S. Mahapatra, S. Bhakta, J. Ahamed and J. Basu
- Effects of modification of the hydrophobic C-1–C-16 segment of tautomycin on its affinity to type-1 and type-2A protein phosphatases 81–88
A. Takai, K. Tsuboi, M. Koyasu and M. Isobe
- Mutation of threonine-241 to proline eliminates autocatalytic modification of human carbonyl reductase 89–92
M.A. Sciotti, S. Nakajin, B. Wermuth and M.E. Baker
- Peroxisome-proliferator-activated receptor δ mediates the effects of long-chain fatty acids on post-confluent cell proliferation 93–98
C. Jehl-Pietri, C. Bastie, I. Gillot, S. Luquet and P.A. Grimaldi
- The cytosolic C-terminus of the glucose transporter GLUT4 contains an acidic cluster endosomal targeting motif distal to the dileucine signal 99–107
A.M. Shewan, B.J. Marsh, D.R. Melvin, S. Martin, G.W. Gould and D.E. James
- Responsiveness of the state of O-linked *N*-acetylglucosamine modification of nuclear pore protein p62 to the extracellular glucose concentration 109–114
I. Han, E.-S. Oh and J.E. Kudlow
- cAMP attenuates interleukin-1-stimulated macrophage colony-stimulating factor (M-CSF) expression 115–122
P.J. Kamthong, F.-m. Wu and M.-c. Wu
- A natural sequence consisting of overlapping glucocorticoid-responsive elements mediates glucocorticoid, but not androgen, regulation of gene expression 123–129
C. Massaad, M. Garlatti, E.M. Wilson, F. Cadepond and R. Barouki

Tumour necrosis factor- α and interferon- γ synergistically activate the RANTES promoter through nuclear factor κ B and interferon regulatory factor 1 (IRF-1) transcription factors	A.H. Lee, J.-H. Hong and Y.-S. Seo	131–138
Kinetic and structural analysis of the ultrasensitive behaviour of cyanobacterial ADP-glucose pyrophosphorylase	D.F. Gómez Casati, M.A. Aon and A.A. Iglesias	139–147
Stimulation of fructose transport across the intestinal brush-border membrane by PMA is mediated by GLUT2 and dynamically regulated by protein kinase C	P.A. Helliwell, M. Richardson, J. Affleck and G.L. Kellett	149–154
The diffusive component of intestinal glucose absorption is mediated by the glucose-induced recruitment of GLUT2 to the brush-border membrane	G.L. Kellett and P.A. Helliwell	155–162
Regulation of GLUT5, GLUT2 and intestinal brush-border fructose absorption by the extracellular signal-regulated kinase, p38 mitogen-activated kinase and phosphatidylinositol 3-kinase intracellular signalling pathways: implications for adaptation to diabetes	P.A. Helliwell, M. Richardson, J. Affleck and G.L. Kellett	163–169
Substrates of semicarbazide-sensitive amine oxidase co-operate with vanadate to stimulate tyrosine phosphorylation of insulin-receptor-substrate proteins, phosphoinositide 3-kinase activity and GLUT4 translocation in adipose cells	G. Enrique-Tarancón, I. Castan, N. Morin, L. Marti, A. Abella, M. Camps, R. Casamitjana, M. Palacín, X. Testar, E. Degerman, C. Carpène and A. Zorzano	171–180
Catabolism of aggrecan, decorin and biglycan in tendon	S.G. Rees, C.R. Flannery, C.B. Little, C.E. Hughes, B. Caterson and C.M. Dent	181–188
Identification of domains responsible for signal recognition and transduction within the QUTR transcription repressor protein	L.J. Levett, S.M. Si-Hoe, S. Liddle, K. Wheeler, D. Smith, H.K. Lamb, G.H. Newton, J.R. Coggins and A.R. Hawkins	189–197
Cloning and characterization of a novel human histone deacetylase, HDAC8	J.J. Buggy, M.L. Sideris, P. Mak, D.D. Lorimer, B. McIntosh and J.M. Clark	199–205
Phosphoinositide 3-kinase-dependent Ras activation by tauroursodesoxycholate in rat liver	A.K. Kurz, C. Block, D. Graf, S. vom Dahl, F. Schliess and D. Häussinger	207–213
Peroxidation of proteins before lipids in U937 cells exposed to peroxy radicals	S. Gieseg, S. Duggan and J.M. Gebicki	215–218
The low-affinity monocarboxylate transporter MCT4 is adapted to the export of lactate in highly glycolytic cells	K.-S. Dimmer, B. Friedrich, F. Lang, J.W. Deitmer and S. Brörer	219–227
Identification of amino acid residues important in the cyclization reactions of chalcone and stilbene synthases	D.-Y. Suh, K. Fukuma, J. Kagami, Y. Yamazaki, M. Shibuya, Y. Ebizuka and U. Sankawa	229–235
Kinetics of a self-amplifying substrate cycle: ADP–ATP cycling assay	E. Valero, R. Varón and F. García-Carmona	237–243
Effect of heparin and liver heparan sulphate on interaction of HepG2-derived transcription factors and their <i>cis</i> -acting elements: altered potential of hepatocellular carcinoma heparan sulphate	J. Dudás, G. Ramadori, T. Knittel, K. Neubauer, D. Raddatz, K. Egedy and I. Kovalszky	245–251
Structural basis for the functional difference between Smad2 and Smad3 in FAST-2 (forkhead activin signal transducer-2)-mediated transcription	R.P. Nagarajan and Y. Chen	253–259
Expression of <i>Escherichia coli</i> <i>otsA</i> in a <i>Saccharomyces cerevisiae</i> <i>tps1</i> mutant restores trehalose 6-phosphate levels and partly restores growth and fermentation with glucose and control of glucose influx into glycolysis	B.M. Bonini, C. van Vaeck, C. Larsson, L. Gustafsson, P. Ma, J. Winderickx, P. van Dijck, and J.M. Thevelein	261–268
Fine mapping of the α -actinin binding site within cysteine-rich protein	B.D. Harper, M.C. Beckerle and P. Pomiès	269–274
Membrane pore architecture of a cytolytic toxin from <i>Bacillus thuringiensis</i>	B. Promdonkoy and D.J. Ellar	275–282

Interaction of the collagen-like tail of asymmetric acetylcholinesterase with heparin depends on triple-helical conformation, sequence and stability	P. Deprez, E. Doss-Pepe, B. Brodsky and N.C. Inestrosa	283–290
Thrombospondin 1 does not activate transforming growth factor β 1 in a chemically defined system or in smooth-muscle-cell cultures	D.J. Grainger and E.K. Frow	291–298
Differential regulation of Ca^{2+} /calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca^{2+} concentration	S.H. Lee, J.D. Johnson, M.P. Walsh, J.E. Van Lierop, C. Sutherland, A. Xu, W.A. Snedden, D. Kosk-Kosicka, H. Fromm, N. Narayanan and M.J. Cho	299–306
Interleukin 1 induces hypoxia-inducible factor 1 in human gingival and synovial fibroblasts	R.D. Thornton, P. Lane, R.C. Borghaei, E.A. Pease, J. Caro and E. Mochan	307–312
Oxygen and haem regulate the synthesis of peroxisomal proteins: catalase A, acyl-CoA oxidase and Pex1p in the yeast <i>Saccharomyces cerevisiae</i> ; the regulation of these proteins by oxygen is not mediated by haem	M. Skoneczny and J. Rytka	313–319
Purification and characterization of Ak.1 protease, a thermostable subtilisin with a disulphide bond in the substrate-binding cleft	H.S. Toogood, C.A. Smith, E.N. Baker and R.M. Daniel	321–328
The analysis of intermolecular interactions in concentrated hyaluronan solutions suggest no evidence for chain–chain association	P. Gribbon, B.C. Heng and T.E. Hardingham	329–335