

**Review**

**Structural, signalling and regulatory properties of the group I metabotropic glutamate receptors: prototypic family C G-protein-coupled receptors**  
by E. Hermans and R. A. J. Challiss

**465–484****Research Papers**

LIM-domain protein cysteine- and glycine-rich protein 2 (CRP2) is a novel marker of hepatic stellate cells and binding partner of the protein inhibitor of activated STAT1

**485–496**

Identification of the autophosphorylation sites and characterization of their effects in the protein kinase DYRK1A

**497–505**

Mammalian class Sigma glutathione S-transferases: catalytic properties and tissue-specific expression of human and rat GSH-dependent prostaglandin D<sub>2</sub> synthases

**507–516**

PtdIns(4,5)P<sub>2</sub> and phospholipase C-independent Ins(1,4,5)P<sub>3</sub> signals induced by a nitrogen source in nitrogen-starved yeast cells

**517–523**

Type II tumour necrosis factor- $\alpha$  receptor (TNFR2) activates c-Jun N-terminal kinase (JNK) but not mitogen-activated protein kinase (MAPK) or p38 MAPK pathways

**525–535**

Cladribine induces apoptosis in human leukaemia cells by caspase-dependent and -independent pathways acting on mitochondria

**537–546**

Unfolding and refolding of a quinone oxidoreductase:  $\alpha$ -crystallin, a molecular chaperone, assists its reactivation

**547–556**

A distal region, hypersensitive to DNase I, plays a key role in regulating rabbit whey acidic protein gene expression

**557–565**

Albumin-derived advanced glycation end-products trigger the disruption of the vascular endothelial cadherin complex in cultured human and murine endothelial cells

**567–574**

Structure and differential expression of the four members of the *Arabidopsis thaliana* ferritin gene family

**575–582**

AtPIP5K1, an *Arabidopsis thaliana* phosphatidylinositol phosphate kinase, synthesizes PtdIns(3,4)P<sub>2</sub> and PtdIns(4,5)P<sub>2</sub> *in vitro* and is inhibited by phosphorylation

**583–589**

N-terminal truncation affects the kinetics and structure of fructose-6-phosphate 2-kinase/fructose-2,6-bisphosphatase from *Arabidopsis thaliana*

**591–597**

Regulation of mammalian phospholipase D2: interaction with and stimulation by G<sub>M2</sub> activator

**599–604**

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| Bile-salt hydrophobicity is a key factor regulating rat liver plasma-membrane communication: relation to bilayer structure, fluidity and transporter expression and function | Y. Asamoto, S. Tazuma, H. Ochi, K. Chayama and H. Suzuki   | <b>605–610</b> |
| Antagonistic effects of phorbol esters on insulin regulation of insulin-like growth factor-binding protein-1 (IGFBP-1) but not glucose-6-phosphatase gene expression         | S. Patel, P.A. Lochhead, G. Rena and C. Sutherland   | <b>611–619</b> |
| Sulphatides trigger polymorphonuclear granulocyte spreading on collagen-coated surfaces and inhibit subsequent activation of 5-lipoxygenase                                  | G.F. Sud'ina, T.G. Brock, M.A. Pushkareva, S.I. Galkina, D.V. Turutin, M. Peters-Golden and V. Ullrich   | <b>621–629</b> |
| $\gamma$ -Glutamyl transpeptidase in the yeast <i>Saccharomyces cerevisiae</i> and its role in the vacuolar transport and metabolism of glutathione                          | K. Mehdi, J. Thierie and M.J. Penninckx  | <b>631–637</b> |
| GLUT4 translocation precedes the stimulation of glucose uptake by insulin in muscle cells: potential activation of GLUT4 via p38 mitogen-activated protein kinase            | R. Somwar, D.Y. Kim, G. Sweeney, C. Huang, W. Niu, C. Lador, T. Ramlal and A. Klip   | <b>639–649</b> |
| Superficial disposition of the N-terminal region of the surfactant protein SP-C and the absence of specific SP-B–SP-C interactions in phospholipid bilayers                  | I. Plasencia, A. Cruz, C. Casals and J. Pérez-Gil  | <b>651–659</b> |
| Cysteine-directed cross-linking localizes regions of the human erythrocyte anion-exchange protein (AE1) relative to the dimeric interface                                    | A.M. Taylor, Q. Zhu and J.R. Casey   | <b>661–668</b> |
| Characterization of the MN/CA 9 promoter proximal region: a role for specificity protein (SP) and activator protein 1 (AP1) factors  | M. Kaluzová, S. Pastoreková, E. Svastová, J. Pastorek, E.J. Stanbridge and S. Kaluz  | <b>669–677</b> |
| Roles of calcium ions in the membrane binding of C2 domains  | R.V. Stahelin and W. Cho   | <b>679–685</b> |
| Comparative impacts of glutathione peroxidase-1 gene knockout on oxidative stress induced by reactive oxygen and nitrogen species in mouse hepatocytes                       | Y. Fu, J.M. Porres and X.G. Lei  | <b>687–695</b> |
| Commitment of apolipoprotein B RNA to the splicing pathway regulates cytidine-to-uridine editing-site utilization  | M.P. Sowden and H.C. Smith   | <b>697–705</b> |
| Human acyl-CoA:diacylglycerol acyltransferase is a tetrameric protein  | D. Cheng, R.L. Meegalla, B. He, D.A. Cromley, J.T. Billheimer and P.R. Young   | <b>707–714</b> |
| Conserved tryptophan in cytochrome c: importance of the unique side-chain features of the indole moiety  | K.M. Black, I. Clark-Lewis and C.J.A. Wallace  | <b>715–720</b> |
| The shorter zinc finger protein ZNF230 gene message is transcribed in fertile male testes and may be related to human spermatogenesis  | S. Zhang, W. Qiu, H. Wu, G. Zhang, M. Huang, C. Xiao, J. Yang, C. Kamp, X. Huang, K. Huellen, Y. Yue, A. Pan, R. Lebo, A. Milunsky and P.H. Vogt | <b>721–727</b> |