

**Review**

Oxidative burst: an early plant response to pathogen infection  
by P. Wojtaszek **681–692**

**Research Papers****Proteins**

- Characterization of a saporin isoform with lower ribosome-inhibiting activity **719–727**  
M.S. Fabbrini, E. Rappocciolo, D. Carpani, M. Solinas, B. Valsasina, U. Breme, U. Cavallaro, A. Nykjaer, E. Rovida, G. Legname and M.R. Soria
- Retinol and retinaldehyde specifically increase  $\alpha$ 1-proteinase inhibitor in the human cornea **751–756**  
G. Bošković and S.S. Twining
- Reduced  $\beta$ -strand content in apoprotein B-100 in smaller and denser low-density lipoprotein subclasses as probed by Fourier-transform infrared spectroscopy **765–769**  
F. Tanfani, T. Galeazzi, G. Curatola, E. Bertoli and G. Ferretti
- Activation of the ATPase activity of heat-shock proteins Hsc70/Hsp70 by cysteine-string protein **853–858**  
L.H. Chamberlain and R.D. Burgoyne
- Rifampicin inhibits the toxicity of pre-aggregated amyloid peptides by binding to peptide fibrils and preventing amyloid-cell interaction **859–865**  
T. Tomiyama, H. Kaneko, K. Kataoka, S. Asano and N. Endo

**Enzymes**

- Studies of the esterase activity of cytosolic aldehyde dehydrogenase with resorufin acetate as substrate **701–708**  
T.M. Kitson and K.E. Kitson
- Covalent modification of nitrogenase MoFe protein by ADP **737–744**  
R.W. Miller, R.R. Eady, C. Gormal, S.A. Fairhurst and B.E. Smith
- Recombinant expression and isolation of human L-arginine:glycine amidinotransferase and identification of its active-site cysteine residue **771–776**  
A. Humm, E. Fritsche, K. Mann, M. Göhl and R. Huber
- Identification and characterization of a novel A-Kinase-anchoring protein (AKAP120) from rabbit gastric parietal cells **801–807**  
D.T. Dransfield, J.L. Yeh, A.J. Bradford and J.R. Goldenring
- Degradation of decorin by matrix metalloproteinases: identification of the cleavage sites, kinetic analyses and transforming growth factor- $\beta$ 1 release **809–814**  
K. Imai, A. Hiramatsu, D. Fukushima, M.D. Pierschbacher and Y. Okada
- Heterologous expression and characterization of wild-type and mutant forms of a 26 kDa endochitinase from barley (*Hordeum vulgare* L.) **815–822**  
M.D. Andersen, A. Jensen, J.D. Robertus, R. Leah and K. Skriver
- Benzyloxycarbonylprolylprolinal, a transition-state analogue for prolyl oligopeptidase, forms a tetrahedral adduct with catalytic serine, not a reactive cysteine **839–843**  
A. Kahyaoglu, K. Haghjoo, F. Kraicsovits, F. Jordan and L. Polgar
- New  $\alpha$ -L-arabinofuranosidase produced by *Streptomyces lividans*: cloning and DNA sequence of the *abfB* gene and characterization of the enzyme **845–852**  
P. Vincent, F. Shareck, C. Dupont, R. Morosoli and D. Kluepfel
- Mechanism of cysteine protease inactivation by peptidyl epoxides **879–884**  
A. Albeck and S. Kliper

**Carbohydrates and lipids**

- Antibody selection against CD52 produces a paroxysmal nocturnal haemoglobinuria phenotype in human lymphocytes by a novel mechanism **919–925**  
V.C. Taylor, M. Sims, S. Brett and M.C. Field

**Gene structure and expression**

- cDNA cloning and expression of the flavoprotein D-aspartate oxidase from bovine kidney cortex **729–735**  
T. Simonic, S. Duga, A. Negri, G. Tedeschi, M. Malcovati, M.L. Tenchini and S. Ronchi
- Regulation of lactase-phlorizin hydrolase gene expression by the caudal-related homeodomain protein Cdx-2 **833–838**  
J.T. Troelsen, C. Mitchelmore, N. Spodsberg, A.M. Jensen, O. Norén and H. Sjöström
- Structure and organization of amplicons containing the E4 esterase genes responsible for insecticide resistance in the aphid *Myzus persicae* (Sulzer) **867–871**  
L.M. Field and A.L. Devonshire

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| Sequence elements surrounding the acceptor site suppress alternative splicing of the sarco/endoplasmic reticulum $\text{Ca}^{2+}$ -ATPase 2 gene transcript  | L. Van Den Bosch, L. Mertens, S. Gijssbers, M. Ver Heyen, F. Wuytack and J. Eggermont  | <b>885–891</b> |
| An enhancer with cell-type dependent activity is located between the myeloid and epithelial aminopeptidase N (CD 13) promoters   | J. Olsen, K. Kokholm, J.T. Troelsen and L. Laustsen  | <b>899–908</b> |
| <b>Regulation of metabolism</b>  |  |                |
| Glucose-induced glycogenesis in the liver involves the glucose-6-phosphate-dependent dephosphorylation of glycogen synthase  | J. Cadéfeu, M. Bollen and W. Stalmans  | <b>745–750</b> |
| The role of $\text{NAD}^+$ as a signal during nitrogenase switch-off in <i>Rhodospirillum rubrum</i>   | A. Norén, A. Soliman and S. Nordlund   | <b>829–832</b> |
| <b>Membranes and bioenergetics</b>   |  |                |
| Glucose-independent inhibition of yeast plasma-membrane $\text{H}^+$ -ATPase by calmodulin antagonists   | I. Romero, A.M. Maldonado and P. Eraso   | <b>823–828</b> |
| <b>Receptors and signal transduction</b>   |  |                |
| Chemoattractant-induced respiratory burst: increases in cytosolic $\text{Ca}^{2+}$ concentrations are essential and synergize with a kinetically distinct second signal  | R. Foyouzi-Youssefi, F. Petersson, D.P. Lew, K.-H. Krause and O. Nüsse   | <b>709–718</b> |
| Biochemical characterization of the protein tyrosine kinase homology domain of the ErbB3 (HER3) receptor protein   | S.L. Sierke, K. Cheng, H.-H. Kim and J.G. Koland   | <b>757–763</b> |
| Differential expression of ryanodine receptor RyR2 mRNA in the non-pregnant and pregnant human myometrium  | S.S. Awad, H.K. Lamb, J.M. Morgan, W. Dunlop and J.I. Gillespie  | <b>777–783</b> |
| Cytoplasmic $\text{Ca}^{2+}$ signalling and reduction of mitochondrial pyridine nucleotides in adrenal glomerulosa cells in response to $\text{K}^+$ , angiotensin II and vasopressin  | T. Rohács, G. Nagy and A. Spät   | <b>785–792</b> |
| Study of the interactions of cadmium and zinc ions with cellular calcium homeostasis using $^{19}\text{F}$ -NMR spectroscopy   | J. Benters, U. Flögel, T. Schäfer, D. Leibfritz, S. Hechtenberg and D. Beyersmann  | <b>793–799</b> |
| Interaction of Nck-associated protein 1 with activated GTP-binding protein Rac   | Y. Kitamura, T. Kitamura, H. Sakaue, T. Maeda, H. Ueno, S. Nishio, S. Ohno, S. Osada, M. Sakaue, W. Ogawa and M. Kasuga                            | <b>873–878</b> |
| Identification of Csk tyrosine phosphorylation sites and a tyrosine residue important for kinase domain structure  | V. Joukov, M. Vihinen, S. Vainikka, J.M. Sowadski, K. Alitalo and M. Bergman   | <b>927–935</b> |
| Signal transduction through epidermal growth factor receptor is altered in HeLa monolayer cells during mitosis   | S. Klein, M. Kaszkin, H. Barth and V. Kinzel   | <b>937–946</b> |
| <b>Cell biology and development</b>  |  |                |
| Rapid decrease in cellular sodium and chloride content during cold incubation of cultured liver endothelial cells and hepatocytes  | E.R. Gizewski, U. Rauen, M. Kirsch, I. Reuters, H. Diederichs and H. de Groot  | <b>693–699</b> |
| Secretory processing of amyloid precursor protein is inhibited by increase in cellular cholesterol content   | M. Racchi, R. Baetta, N. Salvietti, P. Ianna, G. Franceschini, R. Paoletti, R. Fumagalli, S. Govoni, M. Trabucchi and M. Soma                      | <b>893–898</b> |
| ATP depletion inhibits glucocorticoid-induced thymocyte apoptosis  | C. Stefanelli, F. Bonavita, I. Stanic, G. Farruggia, E. Falcieri, I. Robuffo, C. Pignatti, C. Muscari, C. Rossoni, C. Guarnieri and C.M. Calderera | <b>909–917</b> |
| <b>BJ Letters</b>  |  |                |
| The PLEES proteins: a family of structurally related enzymes widely distributed from bacteria to humans  | X.S. Puente and C. López-Otín  | <b>947–949</b> |
| <b>Corrections</b>   |  |                |
| Mechanism of anti-proliferation caused by YC-1, an indazole derivative, in cultured rat A10 vascular smooth-muscle cells by S.M. Yu, Z.J. Cheng, J.H. Guh, F.Y. Lee and S.C. Kuo (volume 306, pages 787–792, 1995)   |  | <b>951</b>     |
| A method for determination <i>in situ</i> of variations within the hepatic lobule of hepatocyte function and metabolite concentrations by S.P. Burns, R.D. Cohen, R.A. Iles, J.P. Germain, T.C.H. Going, S.J.W. Evans and P. Royston (volume 319, pages 377–383, 1996) |  | <b>951</b>     |