

Biochemical Journal
Volume 338, part 2
1 March 1999

First published on the Internet
22 February 1999

Research Papers

Proteins

Calorimetric studies on the stability of the ribosome-inactivating protein abrin II: effects of pH and ligand binding	J. Krupakar, C. P. Swaminathan, P. K. Das, A. Surolia and S. K. Podder	273–279
Baculovirus expression and biochemical characterization of the human microsomal triglyceride transfer protein	P. J. Ritchie, A. Decout, J. Amey, C. J. Mann, J. Read, M. Rosseneu, J. Scott and C. C. Shoulders	305–310
Comparison of the fibrin-binding activities in the N- and C-termini of fibronectin	A. A. Rostagno, J. E. Schwarzbauer and L. I. Gold	375–386
Heterogeneous nuclear ribonucleoprotein D0B is a sequence-specific DNA-binding protein	M. Tolnay, L. A. Vereshchagina and G. C. Tsokos	417–425
A novel class of protein from wheat which inhibits xylanases	W. R. McLauchlan, M. T. Garcia-Conesa, G. Williamson, M. Roza, P. Ravestein and J. Maat	441–446
Cloning and characterization of a maize cytochrome- <i>b</i> ₅ reductase with Fe ³⁺ -chelate reduction capability	P. Bagnaresi, S. Thoiron, M. Mansion, M. Rossignol, P. Pupillo and J.-F. Briat	499–505
Physical characterization of a low-charge glycoform of the MUC5B mucin comprising the gel-phase of an asthmatic respiratory mucous plug	J. K. Sheehan, M. Howard, P. S. Richardson, T. Longwill and D. J. Thornton	507–513
The endosome fusion regulator early-endosomal autoantigen 1 (EEA1) is a dimer	J. Callaghan, A. Simonsen, J.-M. Gaullier, B.-H. Toh and H. Stenmark	539–543

Enzymes

Synthesis and kinetic evaluation of 4-deoxymaltopentaose and 4-deoxymaltohexaose as inhibitors of muscle and potato α -glucan phosphorylases	R. Mosi and S. G. Withers	251–256
Isolation and complete covalent structure of liver microsomal paraoxonase	J. Ozols	265–272
Overexpression of CuZn superoxide dismutase protects RAW 264.7 macrophages against nitric oxide cytotoxicity	F. Brockhaus and B. Brüne	295–303
Co-expression of glutathione S-transferase with methionine aminopeptidase: a system of producing enriched N-terminal processed proteins in <i>Escherichia coli</i>	D. D. W. Hwang, L.-F. Liu, I-C. Kuan, L-Y. Lin, T-C. S. Tam and M. F. Tam	335–342
Regulation of 2-carboxy-D-arabinitol 1-phosphate phosphatase: activation by glutathione and interaction with thiol reagents	J. Heo and G. P. Holbrook	409–416
Lipoprotein-associated phospholipase A ₂ , platelet-activating factor acetylhydrolase, generates two bioactive products during the oxidation of low-density lipoprotein: use of a novel inhibitor	C. H. Macphee, K. E. Moores, H. F. Boyd, D. Dhanak, R. J. Ife, C. A. Leach, D. S. Leake, K. J. Milliner, R. A. Patterson, K. E. Suckling, D. G. Tew and D. M. B. Hickey	479–487
Purification and characterization of an α -galactosyltransferase from <i>Trypanosoma brucei</i>	S. Pingel, U. Rheinweiler, V. Kolb and M. Duszenko	545–551
Regulation of UDP-N-acetylglucosamine: dolichyl-phosphate N-acetylglucosamine-1-phosphate transferase by retinoic acid in P19 cells	J. D. Meissner, A. Naumann, W. H. Mueller and R. J. Scheibe	561–568

Carbohydrates and lipids

- Reversal of hyperlipidaemia in apolipoprotein C1 transgenic mice by adenovirus-mediated gene delivery of the low-density-lipoprotein receptor, but not by the very-low-density-lipoprotein receptor **281–287**
 M. C. Jong, K. Willems Van Dijk, V. E. H. Dahlmans, H. Van Der Boom, K. Kobayashi, K. Oka, G. Siest, L. Chan, M. H. Hofker and L. M. Havekes
- Proteoglycan involvement in polyamine uptake **317–323**
 M. Belting, S. Persson and L.-Å. Fransson
- Simultaneous antisense inhibition of two starch-synthase isoforms in potato tubers leads to accumulation of grossly modified amylopectin **515–521**
 J. R. Lloyd, V. Landschütze and J. Kossmann
- Variable domain-linked oligosaccharides of a human monoclonal IgG: structure and influence on antigen binding **529–538**
 H. Leibiger, D. Wüstner, R.-D. Stigler and U. Marx

Gene structure and expression

- Upstream region of rat serum albumin gene promoter contributes to promoter contributes to promoter activity: presence of functional binding site for hepatocyte nuclear factor-3 **241–249**
 C.-H. Hsiang, N. W. Marten and D. S. Straus
- Overexpression of spermidine/spermine **311–316**
N¹-acetyltransferase under the control of mouse metallothionein I promoter in transgenic mice: evidence for a striking post-transcriptional regulation of transgene expression by a polyamine analogue
 S. Suppola, M. Pietilä, J. J. Parkkinen, V.-P. Korhonen, L. Alhonen, M. Halmekyö, C. W. Porter and J. Jänne
- Complete sequence of the human mucin MUC4: a putative cell membrane-associated mucin **325–333**
 N. Moniaux, S. Nollet, N. Porchet, P. Degand, A. Laine and J.-P. Aubert
- Differential regulation of the human nidogen gene promoter region by a novel cell-type-specific silencer element **343–350**
 M. Zedlacher, M. Schmoll, K. Zimmermann, O. Horstkorte and R. Nischt
- Differential regulation of vascular endothelial growth factor and its receptor *fms-like-tyrosine kinase* is mediated by nitric oxide in rat renal mesangial cells **367–374**
 S. Frank, B. Stallmeyer, H. Kampfer, C. Schaffner and J. Pfeilschifter
- Characterization of the interaction domains of Ure2p, a prion-like protein of yeast **403–407**
 E. Fernandez-Bellot, E. Guillermet, A. Baudin-Baillieu, S. Gaumer, A. A. Komar and C. Cullin
- Cloning and functional characterization of the 5'-flanking region of the human bone morphogenetic protein-2 gene **433–440**
 T. Sugiura
- Identification of a cAMP response element within the glucose-6-phosphatase hydrolytic subunit gene promoter which is involved in the transcriptional regulation by cAMP and glucocorticoids in H4IIE hepatoma cells **457–463**
 D. Schmoll, C. Wasner, C. J. Hinds, B. B. Allan, R. Walther and A. Burchell
- Regulation and function of family 1 and family 2 UDP-glucuronosyltransferase genes (*UGT1A*, *UGT2B*) in human oesophagus **489–498**
 C. P. Strassburg, A. Strassburg, N. Nguyen, Q. Li, M. P. Manns and R. H. Tukey
- Identification and characterization of a recombinant metallothionein protein from a marine alga, *Fucus vesiculosus* **553–560**
 C. A. Morris, B. Nicolaus, V. Sampson, J. L. Harwood and P. Kille

Regulation of metabolism

- Purinogen is not an endogenous substrate used in endothelial cells during substrate deprivation **523–527**
 O. Culic, U. K. M. Decking, E. Bergschneider and J. Schrader

Membranes and bioenergetics

- Canalicular multispecific organic anion transporter/multidrug resistance protein 2 mediates low-affinity transport of reduced glutathione **393–401**
 C. C. Paulusma, M. A. van Geer, R. Evers, M. Heijnen, R. Ottenhoff, P. Borst and R. P. J. Oude Elferink

Receptors and signal transducor

- Phosphorylation by protein kinase C decreases catalytic activity of avian phospholipase C- β 257–264
- Role of retinoid receptors in the regulation of mucin gene expression by retinoic acid in human tracheobronchial epithelial cells 351–357
- Characterization and partial purification of a novel neutrophil membrane-associated kinase capable of phosphorylating the respiratory burst component p47^{phox} 359–366
- Synergistic activation of JNK/SAPK by interleukin-1 and platelet-derived growth factor is independent of Rac and Cdc42 387–392
- Thyroid hormone promotes the phosphorylation of STAT3 and potentiates the action of epidermal growth factor in cultured cells 427–432
- Hyperoxia induces the neuronal differentiated phenotype of PC12 cells via a sustained activity of mitogen-activated protein kinase induced by Bcl-2 465–470

Cell biology and development

- Efficient binding of regulated secretory protein aggregates to membrane phospholipids at acidic pH 289–294
- Contributions to gene activation by multiple functions of Bicoid 447–455
- Dephosphorylation of the catenins p120 and p100 in endothelial cells in response to inflammatory stimuli 471–478