## Biochemical Journal Volume 331, part 1 1 April 1998

Review Article		
Transcriptional control and the role of silencers in transcriptional regulation in eukaryotes by S. Ogbourne and T.M. Antalis		1–14
Research Communication		
The novel endogenous cannabinoid 2-arachidonoylglycerol is inactivated by neuronal- and basophil-like cells: connections with anandamide	V. Di Marzo, T. Bisogno, T. Sugiura, D. Melck and L. De Petrocellis	15–19
Research Papers		
Proteins		
The C-terminus of factor H: monoclonal antibodies inhibit heparin binding and identify epitopes common to factor H and factor H-related proteins	W.M. Prodinger, J. Hellwage, M. Spruth, M.P. Dierich and P.F. Zipfel	41–47
Activation of calcineurin and smooth muscle myosin light chain kinase by Met-to-Leu mutants of calmodulin	R.A. Edwards, M.P. Walsh, C. Sutherland and H.J. Vogel	149–152
Membrane integration of Sec61α: a core component of the endoplasmic reticulum translocation complex	B.C. Knight and S. High	161–167
Determination of functional domains in polypyrimidine-tract- binding protein	Y.L. Oh, B. Hahm, Y.K. Kim, H.K. Lee, J.W. Lee, OK. Song, K. Tsukiyama-Kohara, M. Kohara, A. Nomoto and S.K. Jang	169–175
Oxidation of high-density lipoprotein $HDL_3$ leads to exposure of apo-Al and apo-All epitopes and to formation of aldehyde protein adducts, and influences binding of oxidized low-density lipoprotein to type I and type III collagen <i>in vitro</i>	J. Greilberger and G. Jürgens	185–191
Bovine submaxillary mucin contains multiple domains and tandemly repeated non-identical sequences	W. Jiang, J.T. Woitach, R.L. Keil and V.P. Bhavanandan	193–199
Purification and characterization of a new cystatin inhibitor from Taiwan cobra ( <i>Naja naja atra</i> ) venom	M. Brillard-Bourdet, V. Nguyên, M. Ferrer-Di Martino, F. Gauthier and T. Moreau	239–244
The two activation domains of the CCAAT-binding factor CBF interact with the dTAF <sub>II</sub> 110 component of the <i>Drosophila</i> TFIID complex	F. Coustry, S. Sinha, S.N. Maity and B. de Crombrugghe	291–297
Susceptibility of the cysteine-rich N-terminal and C-terminal ends of rat intestinal mucin Muc 2 to proteolytic cleavage	I.A. Khatri, G.G. Forstner and J.F. Forstner	323–330
Enzymes		
Purification and characterization of membrane-bound semicarbazide-sensitive amine oxidase (SSAO) from bovine lung	J.M. Lizcano, K.F. Tipton and M. Unzeta	69–78
DNA polymerase $\beta$ : effects of gapped DNA substrates on dNTP specificity, fidelity, processivity and conformational changes	J. Ahn, V.S. Kraynov, X. Zhong, B.G. Werneburg and MD. Tsai	79–87
Induction of tissue transglutaminase by dexamethasone: its correlation to receptor number and transglutaminase-mediated cell death in a series of malignant hamster fibrosarcomas	T.S. Johnson, C.I. Scholfield, J. Parry and M. Griffin	105–112
Effector-sensitive cross-linking of phosphorylase <i>b</i> kinase by the novel cross-linker 4-phenyl-1,2,4-triazoline-3,5-dione	N.A. Ayers, O.W. Nadeau, M.W. Read, P. Ray and G.M. Carlson	137–141
Effect of replacement of His-118, His-125 and Trp-143 by alanine on the catalytic activity and subunit assembly of inorganic pyrophosphatase from thermophilic bacterium PS-3	M. Aoki, T. Uchiumi, E. Tsuji and A. Hachimori	143–148

Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from <i>Chlamydomonas reinhardtii</i> . Kinetic, structural and immunological evidence that the green algal enzyme is distinct from the prokaryotic and higher plant enzymes	J. Rivoal, W.C. Plaxton and D.H. Turpin	201–209
Carbohydrates and lipids		
A mitochondrial membrane protein is required for translocation of phosphatidylserine from mitochondria-associated membranes to mitochondria	YJ. Shiao, B. Balcerzak and J.E. Vance	217–223
Utilization of phosphatidylcholine and production of diradylglycerol as a consequence of sphingomyelin synthesis	D.J. Sillence and D. Allan	251–256
Characterization of a spleen sulphotransferase responsible for the 6-O-sulphation of the galactose residue in sialyl-N-acetyl-lactosamine sequences	R.G. Spiro and V.D. Bhoyroo	265–271
Gene structure and expression		
PAX 8 activates the enhancer of the human thyroperoxidase gene	C. Esposito, S. Miccadei, A. Saiardi and D. Civitareale	37–40
Evolution of alanine:glyoxylate aminotransferase intracellular targeting: structural and functional analysis of the guinea pig gene	G.M. Birdsey and C.J. Danpure	49–60
Characterization of human involucrin promoter distal regulatory region transcriptional activator elements – a role for Sp1 and AP1 binding sites	E.B. Banks, J.F. Crish, J.F. Welter and R.L. Eckert	61–68
Dietary carbohydrates enhance lactase/phlorizin hydrolase gene expression at a transcription level in rat jejunum	T. Tanaka, K. Kishi, M. Igawa, S. Takase and T. Goda	225–230
Disruption of endogenous regulator homeostasis underlies the mechanism of rat CYP1A1 mRNA induction by metyrapone	J.L. Harvey, A.J. Paine and M.C. Wright	273–281
A human homologue of <i>Escherichia coli</i> ClpP caseinolytic protease: recombinant expression, intracellular processing and subcellular localization	T.J. Corydon, P. Bross, H.U. Holst, S. Neve, K. Kristiansen, N. Gregersen and L. Bolund	309–316
Cloning of the gene for interstitial collagenase-3 (matrix metalloproteinase-13) from rabbit synovial fibroblasts: differential expression with collagenase-1 (matrix metalloproteinase-1)	M.P. Vincenti, C.I. Coon, J.A. Mengshol, S. Yocum, P. Mitchell and C.E. Brinckerhoff	341–346
Regulation of metabolism		
Uptake and catabolism of modified LDL in scavenger-receptor class A type I/II knock-out mice	T.J.C. Van Berkel, A. Van Velzen, J.K. Kruijt, H. Suzuki and T. Kodama	29–35
ATP-dependent transport of unconjugated bilirubin by rat liver canalicular plasma membrane vesicles	L. Pascolo, E.J. Bayon, F. Cupelli, J.D. Ostrow and C. Tiribelli	99–103
Effects of dietary treatment of rats with eicosapentaenoic or docosahexaenoic acid on hepatic lipid metabolism	H. Osmundsen, H. Braud, F. Beauseigneur, J. Gresti, M. Tsoko and P. Clouet	153–160
Apolipoprotein J (clusterin) induces cholesterol export from macrophage-foam cells: a potential anti-atherogenic function?	I.C. Gelissen, T. Hochgrebe, M.R. Wilson, S.B. Easterbrook-Smith, W. Jessup, R.T. Dean and A.J. Brown	231–237
Membranes and bioenergetics		
Redox regulation of cAMP levels by ascorbate in 1,25-dihydroxyvitamin $\rm D_3$ -induced differentiation of HL-60 cells	G. López-Lluch, M.I. Burón, F.J. Alcaín, J.M. Quesada and P. Navas	21–27
Mutational analysis of histidine residues in the rabbit Na <sup>+</sup> /dicarboxylate co-transporter NaDC-1	A.M. Pajor, N. Sun and H.G. Valmonte	257–264
Mitsugumin29, a novel synaptophysin family member from the triad junction in skeletal muscle	H. Takeshima, M. Shimuta, S. Komazaki, K. Ohmi, M. Nishi, M. Iino, A. Miyata and K. Kangawa	317–322
Receptors and signal transduction		
3,5,3'-Tri-iodo-L-thyronine acutely regulates a protein kinase C-sensitive, $Ca^{2+}$ -independent, branch of the hepatic $\alpha_1$ -adrenoreceptor signalling pathway	F.J. Daza, R. Parrilla and A. Martín-Requero	89–97
Proxy activation of protein ErbB2 by heterologous ligands implies a heterotetrameric mode of receptor tyrosine kinase interaction	G.C. Huang, X. Ouyang and R.J. Epstein	113–119

G.D. Offner

350-352

Complete C-terminal sequence and genomic organization of

MUC5B? a reply