

REVIEW ARTICLE

Interaction between mRNA, ribosomes and the cytoskeleton

J. E. HESKETH & I. F. PRYME

1-10

RESEARCH PAPERS

Proteins

NADH:ubiquinone oxidoreductase from bovine mitochondria. cDNA sequence of a 19 kDa cysteine-rich subunit

A. DUPUIS, J. M. SKEHEL & J. E. WALKER

11-15

Structural and functional characterization of Factor VIII-ΔII, a new recombinant Factor VIII lacking most of the B-domain

N. BIHOREAU, P. PAOLANTONACCI,
C. BARDELLE, M.-P. FONTAINE-AUPART,
S. KRISHNAN, J. YON &
J.-L. ROMET-LEMONNE

23-31

Processing of the precursor of protamine P2 in mouse. Peptide mapping and N-terminal sequence analysis of intermediates

D. CARRÉ-EUSÈBE, F. LEDERER,
K. H. D. LÊ & S. M. ELSEVIER

39-45

Processing of prothrombin in the secretory pathway

C. STANTON, R. TAYLOR & R. WALLIN

59-65

Characterization of proteoglycans synthesized by human adult glomerular mesangial cells in culture

G. J. THOMAS, R. M. MASON & M. DAVIES

81-88

Activation of human platelet-derived latent transforming growth factor-β1 by human glioblastoma cells. Comparison with proteolytic and glycosidic enzymes

D. HUBER, A. FONTANA & S. BODMER

165-173

Structural modifications of human β₂ microglobulin treated with oxygen-derived radicalsC. CAPELLERE-BLANDIN, T. DELAVEAU &
B. DESCAMPS-LATSCHA

175-182

Potentiation of hyperthermia-induced haemolysis of human erythrocytes by photodynamic treatment. Evidence for the involvement of the anion transporter in this synergistic interaction

C. PRINSZE, K. TIJSSEN,
T. M. A. R. DUBBELMAN &
J. VAN STEVENINCK

183-188

Assembly of chick brain MAP2-tubulin microtubule protein. Characterization of the protein and the MAP2-dependent addition of tubulin dimers

R. G. BURNS

231-238

Kinetics of GTP hydrolysis during the assembly of chick brain MAP2-tubulin microtubule protein

R. G. BURNS

239-243

Assembly of chick brain MAP2-tubulin microtubule protein. Analysis of tubulin subunit flux rates by immunofluorescence microscopy

M. F. SYMMONS & R. G. BURNS

245-253

Enzymes

Kinetic studies on protoporphyrinogen oxidase inhibition by diphenyl ether herbicides

J.-M. CAMADRO, M. MATRINGE, R. SCALLA
& P. LABBE

17-21

Direct assay for O⁶-methylguanine-DNA methyltransferase and comparison of detection methods for the methylated enzyme in polyacrylamide gels and electroblotsG. N. MAJOR, E. J. GARDNER &
P. D. LAWLEY

89-96

Lipoylation of the E2 components of the 2-oxo acid dehydrogenase multienzyme complexes of *Escherichia coli*

L. C. PACKMAN, B. GREEN & R. N. PERHAM

153-158

Expression and site-directed mutagenesis of hepatic glucokinase

A. J. LANGE, L. Z. XU, F. VAN POELWIJK,
K. LIN, D. K. GRANNER & S. J. PILKIS
Y.-Z. MA & C.-L. TSOU

159-163

Comparison of the activity and conformation changes of lactate dehydrogenase H₄ during denaturation by guanidinium chlorideM. D. SKUDLAREK, M.-C. ORGEBIN-CRIST
& D. R. P. TULSIANI

207-211

Asparagine-linked glycoprotein biosynthesis in rat epididymis. Presence of a mannosidase II-like enzyme

C. A. SMITH, M. RANGARAJAN &
B. S. HARTLEY

213-221

D-Xylose (D-glucose) isomerase from *Arthrobacter* strain N.R.R.L. B3728. Purification and propertiesT. LOVINY-ANDERTON, P.-C. SHAW,
M.-K. SHIN & B. S. HARTLEY

255-261

D-Xylose (D-glucose) isomerase from *Arthrobacter* strain N.R.R.L. B3728. Gene cloning, sequence and expressionG. MURPHY, M. I. COCKETT, R. V. WARD
& A. J. P. DOCHERTY

263-271

Matrix metalloproteinase degradation of elastin, type IV collagen and proteoglycan. A quantitative comparison of the activities of 95 kDa and 72 kDa gelatinases, stromelysins-1 and -2 and punctuated metalloproteinase (PUMP)

G. MURPHY, M. I. COCKETT, R. V. WARD
& A. J. P. DOCHERTY

277-279

Carbohydrates and lipids

Gas phase oxidants of cigarette smoke induce lipid peroxidation and changes in lipoprotein properties in human blood plasma. Protective effects of ascorbic acid

B. FREI, T. M. FORTE, B. N. AMES &
C. E. CROSS

133-138

Proteoglycans synthesized by an osteoblast-like cell line (UMR 106-01)

D. J. MCQUILLAN, D. M. FINDLAY,
A. M. HOCKING, M. YANAGISHITA,
R. J. MIDURA & V. C. HASCALL

199-206

CONTENTS (continued)

Gene structure and expression

Lack of 5-methylcytosine in *Dictyostelium discoideum* DNA

S. S. SMITH & D. I. RATNER 273-275

Regulation of metabolism

Analysis and physiological implications of renal 2-oxoglutarate metabolism

I. NISSIM, S. WEHRLI, B. STATES, I. NISSIM & M. YUDKOFF 33-38

Proteolytic fragmentation of tetanus toxin by subcellular fractions of JY, a B lymphoblastoid cell line

A. REBOUL, J. ARVIEUX, J. F. WRIGHT & M. G. COLOMB 47-51

Metabolism of inositol phosphates in ATP-stimulated vascular endothelial cells

S. PIROTON, B. VERJANS, J.-M. BOEYNAEMS & C. ERNEUX 103-110

Variations in the antagonistic effects of insulin and glucagon on glycogen metabolism in cultured foetal hepatocytes

P. MENUELLE & C. PLAS 111-117

Noradrenaline stimulates glucose transport in rat brown adipocytes by activating thermogenesis. Evidence that fatty acid activation of mitochondrial respiration enhances glucose transport

A. MARETTE & L. J. BUKOWIECKI 119-124

Cross-reactivity of amylin with calcitonin-gene-related peptide binding sites in rat liver and skeletal muscle membranes

A. CHANTRY, B. LEIGHTON & A. J. DAY 139-143

Effect of cold acclimation on GSH, antioxidant enzymes and lipid peroxidation in brown adipose tissue

G. BARJA DE QUIROGA, M. LÓPEZ-TORRES, R. PÉREZ-CAMPO, M. ABELANDA, M. PAZ NAVA & M. L. PUERTA 289-292

Membranes and bioenergetics

Transport of taurine and its regulation by protein kinase C in the JAR human placental choriocarcinoma cell line

P. KULANTHAIVEL, D. R. COOL, S. RAMAMOORTHY, V. B. MAHESH, F. H. LEIBACH & V. GANAPATHY 53-58

Agonist-induced Ca²⁺ influx in human neutrophils is secondary to the emptying of intracellular calcium stores

M. MONTERO, J. ALVAREZ & J. GARCIA-SANCHO 73-79

Receptors and signal transduction

Rat and human neutrophil *N*-formyl-peptide chemotactic receptors. Species difference in the glycosylation of similar 35-38 kDa polypeptide cores

J. J. REMES, U. E. PETÄJÄ-REPO & H. J. RAJANIEMI 67-72

Effect of Mg²⁺ on the binding of oxytocin to sheep myometrial cells

V. PLIŠKA & H. KOHLHAUF ALBERTIN 97-101

Involvement of the C-terminus of the inositol 1,4,5-trisphosphate receptor in Ca²⁺ release analysed using region-specific monoclonal antibodies

S. NAKADE, N. MAEDA & K. MIKOSHIBA 125-131

The inhibition of human platelet function by ganodermic acids

C.-N. WANG, J.-C. CHEN, M.-S. SHIAO & C.-T. WANG 189-197

Failure of [³²P]ADP-ribosylation by pertussis toxin to determine G_iα content in membranes from various human tissues. Improved radioimmunological quantification using the ¹²⁵I-labelled C-terminal decapeptide of retinal transducin

M. BÖHM, K. LARISCH, E. ERDMANN, M. CAMPS, K. JAKOBS & P. GIERSCHIK 223-229

Cell biology and development

A large accumulation of non-muscle myosin occurs at first entry into M phase in rat vascular smooth-muscle cells

D. J. GRAINGER, T. R. HESKETH, J. C. METCALFE & P. L. WEISSBERG 145-151

Requirements for the inactivation of ribosomes by gelonin

S. SPERTI, M. BRIGOTTI, M. ZAMBONI, D. CARNICELLI & L. MONTANARO 281-284

The Id gene is activated by serum but is not required for de-differentiation in rat vascular smooth muscle cells

P. R. KEMP, D. J. GRAINGER, C. M. SHANAHAN, P. L. WEISSBERG & J. C. METCALFE 285-288

BJ LETTERS

Regeneration of soluble and particulate inositol 1,4,5-trisphosphate 5-phosphatase after SDS/polyacrylamide gel electrophoresis

F. HOLLANDE, B. VERJANS & C. ERNEUX 293-294

Is decavanadate a specific inositol 1,4,5-trisphosphate receptor antagonist?

J. STRUPISH, R. J. H. WOJCIKIEWICZ, R. A. J. CHALLISS, S. T. SAFRANY, A. L. WILLCOCKS, B. V. L. POTTER & S. R. NAHORSKI 294

Distinction between endo-oligopeptidase A (EC 3.4.22.19) and soluble metalloendopeptidase (EC 3.4.24.15)

A. C. M. CAMARGO 294-295

Thimet oligopeptidase (EC 3.4.24.15): the same by any name?

A. J. BARRETT 295-296