

Review

- Control of eukaryotic protein synthesis by upstream open reading frames in the 5'-untranslated region of an mRNA** 1–11

by Hedda A. Meijer and Adri A.M. Thomas

Published as BJ Immediate Publication 15 July 2002,
DOI 10.1042/BJ20011706

Research Communication

- A catalytic consensus motif for D-mannitol 2-dehydrogenase, a member of a polyol-specific long-chain dehydrogenase family, revealed by kinetic characterization of site-directed mutants of the enzyme from *Pseudomonas fluorescens* M. Klimacek and B. Nidetzky 13–18
- Published as BJ Immediate Publication 13 August 2002,
DOI 10.1042/BJ20020932

Research Papers

- Stopped-flow kinetic studies of electron transfer in the reductase domain of neuronal nitric oxide synthase: re-evaluation of the kinetic mechanism reveals new enzyme intermediates and variation with cytochrome P450 reductase K. Knight and N.S. Scrutton 19–30
- Published as BJ Immediate Publication 24 June 2002,
DOI 10.1042/BJ20020667
- Substrate specificity of the metalloproteinase pregnancy-associated plasma protein-A (PAPP-A) assessed by mutagenesis and analysis of synthetic peptides: substrate residues distant from the scissile bond are critical for proteolysis L.S. Laursen, M.T. Overgaard, C.G. Nielsen, H.B. Boldt, K.H. Hopmann, C.A. Conover, L. Sottrup-Jensen, L.C. Giudice and C. Oxvig 31–40
- Published on the Internet 24 September 2002,
DOI 10.1042/BJ20020831
- Elasticity analysis and design for large metabolic responses produced by changes in enzyme activities F. Ortega and L. Acerenza 41–48
- Published as BJ Immediate Publication 25 June 2002,
DOI 10.1042/BJ20020520
- Molecular cloning and biochemical characterization of rabbit factor XI D. Sinha, M. Marcinkiewicz, D. Gailani and P.N. Walsh 49–56
- Published as BJ Immediate Publication 25 June 2002,
DOI 10.1042/BJ20020232
- A novel Rho GTPase-activating-protein interacts with Gem, a member of the Ras superfamily of GTPases S. Aresta, M.-F. de Tand-Heim, F. Béranger and J. de Gunzburg 57–65
- Published as BJ Immediate Publication 2 July 2002,
DOI 10.1042/BJ20020829
- Cloning and characterization of the 5'-flanking region of the oxalate decarboxylase gene from *Flammulina velutipes* M. Azam, M. Kesarwani, S. Chakraborty, K. Natarajan and A. Datta 67–75
- Published as BJ Immediate Publication 21 May 2002,
DOI 10.1042/BJ20011573
- Plausible molecular mechanism for activation by fumarate and electron transfer of the dopamine β -mono-oxygenase reaction D.S. Wimalasena, S.P. Jayatilake, D.C. Haines and K. Wimalasena 77–85
- Published as BJ Immediate Publication 31 May 2002,
DOI 10.1042/BJ20020216
- Structural and functional characterization of the USP11 deubiquitinating enzyme, which interacts with the RanGTP-associated protein RanBPM H. Ideguchi, A. Ueda, M. Tanaka, J. Yang, T. Tsuji, S. Ohno, E. Hagiwara, A. Aoki and Y. Ishigatsubo 87–95
- Published as BJ Immediate Publication 25 June 2002,
DOI 10.1042/BJ20011851

Signal transducers and activators of transcription 3 (STAT3) inhibits transcription of the inducible nitric oxide synthase gene by interacting with nuclear factor κ B <i>Published as BJ Immediate Publication 11 June 2002, DOI 10.1042/BJ20020588</i>	Z. Yu, W. Zhang and B.C. Kone	97–105
Non-essential roles of cysteine residues in functional expression and redox regulatory pathways for canine glutamate/aspartate transporter based on mutagenic analysis <i>Published as BJ Immediate Publication 27 June 2002, DOI 10.1042/BJ20011843</i>	S. Tamahara, M. Inaba, K. Sato, N. Matsuki, Y. Hikasa and K.-i. Ono	107–111
Determinants of adenophostin A binding to inositol trisphosphate receptors <i>Published as BJ Immediate Publication 27 June 2002, DOI 10.1042/BJ20020675</i>	S.A. Morris, E.P. Nerou, A.M. Riley, B.V.L. Potter and C.W. Taylor	113–120
The evidence for two opposite, ATP-generating and ATP-consuming, extracellular pathways on endothelial and lymphoid cells <i>Published as BJ Immediate Publication 5 July 2002, DOI 10.1042/BJ20020439</i>	G.G. Yegutkin, T. Henttinen, S.S. Samburski, J. Spychala and S. Jalkanen	121–128
The molecular mechanism for the spectral shifts between vertebrate ultraviolet- and violet-sensitive cone visual pigments <i>Published as BJ Immediate Publication 5 July 2002, DOI 10.1042/BJ20020483</i>	J.A. Cowing, S. Poopalasundaram, S.E. Wilkie, P.R. Robinson, J.K. Bowmaker and D.M. Hunt	129–135
Correlations between the functional integrity of the endoplasmic reticulum and polarized Ca^{2+} signalling in mouse lacrimal acinar cells: a role for inositol 1,3,4,5-tetrakisphosphate <i>Published as BJ Immediate Publication 12 July 2002, DOI 10.1042/BJ20020305</i>	A.R. Harmer, D.V. Gallacher and P.M. Smith	137–143
Staurosporine induces endothelial cell apoptosis via focal adhesion kinase dephosphorylation and focal adhesion disassembly independent of focal adhesion kinase proteolysis <i>Published as BJ Immediate Publication 25 June 2002, DOI 10.1042/BJ20020665</i>	J. Kabir, M. Lobo and I. Zachary	145–155
Cytidine diphosphate-diacylglycerol synthesis in <i>Mycobacterium smegmatis</i> <i>Published as BJ Immediate Publication 10 July 2002, DOI 10.1042/BJ20020370</i>	J. Nigou and G.S. Besra	157–162
A novel cycling assay for nicotinic acid–adenine dinucleotide phosphate with nanomolar sensitivity <i>Published as BJ Immediate Publication 15 July 2002, DOI 10.1042/BJ20020644</i>	R. Graeff and H.C. Lee	163–168
Biphasic translocation of Bax to mitochondria <i>Published as BJ Immediate Publication 4 July 2002, DOI 10.1042/BJ20020805</i>	M. Capano and M. Crompton	169–178
A homologue of AMP-activated protein kinase in <i>Drosophila melanogaster</i> is sensitive to AMP and is activated by ATP depletion <i>Published as BJ Immediate Publication 2 July 2002, DOI 10.1042/BJ20020703</i>	D.A. Pan and D.G. Hardie	179–186
<i>Ance</i> , a <i>Drosophila</i> angiotensin-converting enzyme homologue, is expressed in imaginal cells during metamorphosis and is regulated by the steroid, 20-hydroxyecdysone <i>Published as BJ Immediate Publication 2 July 2002, DOI 10.1042/BJ20020567</i>	R.J. Siviter, C.A.M. Taylor, D.M. Cottam, A. Denton, M.P. Dani, M.J. Milner, A.D. Shirras and R.E. Isaac	187–193
Deficiency of dolichyl-P-Man:Man ₇ GlcNAc ₂ -PP-dolichyl mannosyltransferase causes congenital disorder of glycosylation type Ig <i>Published as BJ Immediate Publication 2 July 2002, DOI 10.1042/BJ20020794</i>	C. Thiel, M. Schwarz, M. Hasilik, U. Grieben, F. Hanefeld, L. Lehle, K. von Figura and C. Körner	195–201
Genistein inhibits CCAAT/enhancer-binding protein β (C/EBP β) activity and 3T3-L1 adipogenesis by increasing C/EBP homologous protein expression <i>Published as BJ Immediate Publication 3 July 2002, DOI 10.1042/BJ20020300</i>	A.W. Harmon, Y.M. Patel and J.B. Harp	203–208

Cathepsin B expression and down-regulation by gene silencing and antisense DNA in human chondrocytes <i>Published as BJ Immediate Publication 27 June 2002, DOI 10.1042/BJ20020210</i>	R. Zwicky, K. Müntener, M.B. Goldring and A. Baici	209–217
Cloning and characterization of anti-cathepsin L single chain variable fragment whose expression inhibits procathepsin L secretion in human melanoma cells <i>Published on the Internet 24 September 2002, DOI 10.1042/BJ20020350</i>	N. Guillaume-Rousselet, D. Jean and R. Frade	219–227
The metalloendopeptidase nardilysin (NRDc) is potentially inhibited by heparin-binding epidermal growth factor-like growth factor (HB-EGF) <i>Published as BJ Immediate Publication 3 July 2002, DOI 10.1042/BJ20020822</i>	V. Hospital, E. Nishi, M. Klagsbrun, P. Cohen, N.G. Seidah and A. Prat	229–238
Transport of a neurotoxicant by molecular mimicry: the methylmercury–L-cysteine complex is a substrate for human L-type large neutral amino acid transporter (LAT) 1 and LAT2 <i>Published as BJ Immediate Publication 15 July 2002, DOI 10.1042/BJ20020841</i>	T.A. Simmons-Willis, A.S. Koh, T.W. Clarkson and N. Ballatori	239–246
Rapid insertion of GLUT2 into the rat jejunal brush-border membrane promoted by glucagon-like peptide 2 <i>Published as BJ Immediate Publication 3 July 2002, DOI 10.1042/BJ20020393</i>	A. Au, A. Gupta, P. Schembri and C.I. Cheeseman	247–254
Site-directed mutagenesis reveals a novel catalytic mechanism of <i>Mycobacterium tuberculosis</i> alkylhydroperoxidase C <i>Published as BJ Immediate Publication 25 June 2002, DOI 10.1042/BJ20020545</i>	R. Chauhan and S.C. Mande	255–261
Origins of the difference in Ca ²⁺ requirement for activation of μ - and m-calpain <i>Published as BJ Immediate Publication 16 May 2002, DOI 10.1042/BJ20020485</i>	P. Dutt, C.N. Spriggs, P.L. Davies, Z. Jia and J.S. Elce	263–269
High expression in involuting reproductive tissues of uterocalin/24p3, a lipocalin and acute phase protein <i>Published as BJ Immediate Publication 14 June 2002, DOI 10.1042/BJ20020026</i>	J. Ryon, L. Bendickson and M. Nilsen-Hamilton	271–277
Overexpression and functional characterization of an ABC (ATP-binding cassette) transporter encoded by the genes <i>drvA</i> and <i>drvB</i> of <i>Mycobacterium tuberculosis</i> <i>Published as BJ Immediate Publication 11 June 2002, DOI 10.1042/BJ20020615</i>	B.S. Choudhuri, S. Bhakta, R. Barik, J. Basu, M. Kundu and P. Chakrabarti	279–285
Isolation and structural elucidation of biologically active phospholipids from <i>Scytonema julianum</i> (cyanobacteria) <i>Published as BJ Immediate Publication 31 May 2002, DOI 10.1042/BJ20020146</i>	S. Antonopoulou, A. Oikonomou, H.C. Karantonis, E. Fragopoulou and A. Pantazidou	287–293
Oligomerization status, with the monomer as active species, defines catalytic efficiency of UDP-glucose pyrophosphorylase <i>Published as BJ Immediate Publication 27 June 2002, DOI 10.1042/BJ20020772</i>	F. Martz, M. Wilczynska and L.A. Kleczkowski	295–300
Regulation of insulin signal transduction pathway by a small-molecule insulin receptor activator <i>Published as BJ Immediate Publication 30 May 2002, DOI 10.1042/BJ20020708</i>	V.D.H. Ding, S.A. Qureshi, D. Szalkowski, Z. Li, D.E. Biazzo-Ashnault, D. Xie, K. Liu, A.B. Jones, D.E. Moller and B.B. Zhang	301–306
Induction of apoptosis in human leukaemic cells by IPENSp _m , a novel polyamine analogue and anti-metabolite <i>Published as BJ Immediate Publication 27 June 2002, DOI 10.1042/BJ20020156</i>	A.V. Fraser, P.M. Woster and H.M. Wallace	307–312