Biochemical Journal Volume 385, part 1 1 January 2005

http://www.BiochemJ.org

Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes

Online Commentary

Published as BJ Immediate Publication 23 August 2004,

DOI 10.1042/BJ20040363

Ommo Commontary		
IAP proteins: sticking it to Smac Published on the Internet 14 December 2004, DOI 10.1042/BJ20041800 (see accompanying papers pp. 1–10 and 11–20)	C.S. Duckett	e1-e2
Research Papers		
The BIR domain of IAP-like protein 2 is conformationally unstable: implications for caspase inhibition Published as BJ Immediate Publication 15 October 2004, DOI 10.1042/BJ20041107	H. Shin, M. Renatus, B.P. Eckelman, V.A. Nunes, C.A.M. Sampaio and G.S. Salvesen	1–10
Engineering ML-IAP to produce an extraordinarily potent caspase 9 inhibitor: implications for Smac-dependent anti-apoptotic activity of ML-IAP Published as BJ Immediate Publication 15 October 2004, DOI 10.1042/BJ20041108	D. Vucic, M.C. Franklin, H.J.A. Wallweber, K. Das, B.P. Eckelman, H. Shin, L.O. Elliott, S. Kadkhodayan, K. Deshayes, G.S. Salvesen and W.J. Fairbrother	11–20
Regulation of all members of the antizyme family by antizyme inhibitor Published as BJ Immediate Publication 8 September 2004, DOI 10.1042/BJ20040547	U. Mangold and E. Leberer	21–28
Arginine mutations within a transmembrane domain of Tar, an <i>Escherichia coli</i> aspartate receptor, can drive homodimer dissociation and heterodimer association <i>in vivo Published as BJ Immediate Publication 27 August 2004, DOI 10.1042/BJ20041022</i>	N. Sal-Man and Y. Shai	29–36
Contribution of the two conserved tryptophan residues to the catalytic and structural properties of <i>Proteus mirabilis</i> glutathione S-transferase B1-1 <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040890</i>	N. Allocati, M. Masulli, M. Pietracupa, B. Favaloro, L. Federici and C. Di Ilio	37–43
Human protein phosphatase 5 dissociates from heat-shock proteins and is proteolytically activated in response to arachidonic acid and the microtubule-depolymerizing drug nocodazole <i>Published as BJ Immediate Publication 21 September 2004</i> , <i>DOI 10.1042/BJ20040690</i>	T. Zeke, N. Morrice, C. Vázquez-Martin and P.T.W. Cohen	45–56
Human cyclo-oxygenase-1 and an alternative splice variant: contrasts in expression of mRNA, protein and catalytic activities Published as BJ Immediate Publication 13 September 2004, DOI 10.1042/BJ20041115	C. Schneider, W.E. Boeglin and A.R. Brash	57–64
Phosphatidylinositol 3,4,5-trisphosphate and Ca ²⁺ /calmodulin competitively bind to the regulators of G-protein-signalling (RGS) domain of RGS4 and reciprocally regulate its action <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040404</i>	M. Ishii, S. Fujita, M. Yamada, Y. Hosaka and Y. Kurachi	65–73
The coenzyme specificity of <i>Candida tenuis</i> xylose reductase (AKR2B5) explored by site-directed mutagenesis and X-ray crystallography <i>Published as BJ Immediate Publication 23 August 2004.</i>	B. Petschacher, S. Leitgeb, K.L. Kavanagh, D.K. Wilson and B. Nidetzky	75–83

CD83 is preformed inside monocytes, macrophages and dendritic cells, but it is only stably expressed on activated dendritic cells Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040741	W. Cao, S.H. Lee and J. Lu		85–93
K ⁺ channel types targeted by synthetic OSK1, a toxin from <i>Orthochirus scrobiculosus</i> scorpion venom <i>Published as BJ Immediate Publication 24 September 2004, DOI 10.1042/BJ20041379</i>	S. Mouhat, V. Visan, S. Ananthakrishnan, H. Wulff, N. Andreotti, S. Grissmer, H. Darbon, M. De Waard and JM. Sabatier		95–104
Identification, purification and characterization of a novel human blood protein with binding affinity for prostate secretory protein of 94 amino acids Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20040290	J.R. Reeves, J.W. Xuan, K. Arfanis, C. Morin, S.V. Garde, M.T. Ruiz, J. Wisniewski, C. Panchal and J.E. Tanner		105–114
Involvement of a cytoplasmic-tail serine cluster in urotensin II receptor internalization Published as BJ Immediate Publication 30 September 2004, DOI 10.1042/BJ20040807	C.D. Proulx, M. Simaan, E. Escher, S.A. Laporte, G. Guillemette and R. Leduc		115–123
Tissue specificity and regulation of the N-terminal diversity of reticulon 3 Published as BJ Immediate Publication 7 September 2004, DOI 10.1042/BJ20040458	F. Di Scala, L. Dupuis, C. Gaiddon, M. De Tapia, N. Jokic, JL. Gonzalez De Aguilar, JS. Raul, B. Ludes and JP. Loeffler	online data	125–134
Enhancement of endotoxin neutralization by coupling of a C12-alkyl chain to a lactoferricin-derived peptide Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20041270	J. Andrä, K. Lohner, S.E. Blondelle, R. Jerala, I. Moriyon, M.H.J. Koch, P. Garidel and K. Brandenburg		135–143
Zinc- and iron-dependent cytosolic metallo-β-lactamase domain proteins exhibit similar zinc-binding affinities, independent of an atypical glutamate at the metal-binding site Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040773	O. Schilling, A. Vogel, B. Kostelecky, H. Natal da Luz, D. Spemann, B. Späth, A. Marchfelder, W. Tröger and W. Meyer-Klaucke		145–153
Regulation of the cell-cycle-dependent internal ribosome entry site of the PITSLRE protein kinase: roles of Unr (upstream of N-ras) protein and phosphorylated translation initiation factor eIF-2 α Published as BJ Immediate Publication 26 August 2004, DOI 10.1042/BJ20040963	S.A. Tinton, B. Schepens, Y. Bruynooghe, R. Beyaert and S. Cornelis	entine date	155–163
Identification of a novel rat hepatic gene induced early by insulin, independently of glucose Published as BJ Immediate Publication 2 September 2004, DOI 10.1042/BJ20040586	S. Coffy, JF. Decaux, J. Girard, Y. de Keyzer and M. Asfari	online date	165–171
A cryptic matrix targeting signal of the yeast ADP/ATP carrier normally inserted by the TIM22 complex is recognized by the TIM23 machinery <i>Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040650</i>	M.A.S. Vergnolle, H. Sawney, T. Junne, L. Dolfini and K. Tokatlidis		173–180
Efficient co-expression of a recombinant staphopain A and its inhibitor staphostatin A in <i>Escherichia coli Published as BJ Immediate Publication 23 August 2004, DOI 10.1042/BJ20040958</i>	B. Wladyka, K. Puzia and A. Dubin		181–187
Apolipoprotein CI overexpression is not a relevant strategy to block cholesteryl ester transfer protein (CETP) activity in CETP transgenic mice Published as BJ Immediate Publication 1 September 2004, DOI 10.1042/BJ20041149	T. Gautier, D. Masson, M.C. Jong, JP. Pais De Barros, L. Duverneuil, N. Le Guern, V. Deckert, L. Dumont, A. Bataille, Z. Zak, XC. Jiang, L.M. Havekes and L. Lagrost		189–195
Activation of an α_{2A} -adrenoceptor– $G\alpha_{01}$ fusion protein dynamically regulates the palmitoylation status of the G protein but not of the receptor Published as BJ Immediate Publication 14 September 2004, DOI 10.1042/BJ20041432	E. Barclay, M. O'Reilly and G. Milligan		197–206

		Contents	V
Insulin activates the rat sterol-regulatory-element-binding protein 1c (SREBP-1c) promoter through the combinatorial actions of SREBP, LXR, Sp-1 and NF-Y cis-acting elements Published as BJ Immediate Publication 26 August 2004, DOI 10.1042/BJ20040162	L.M. Cagen, X. Deng, H.G. Wilcox, E.A. Park, R. Raghow and M.B. Elam		207–216
Identification, molecular cloning and functional characterization of a novel NADH kinase from Arabidopsis thaliana (thale cress) Published as BJ Immediate Publication 3 September 2004, DOI 10.1042/BJ20040292	W.L. Turner, J.C. Waller and W.A. Snedden		217–223
The Nramp orthologue of <i>Cryptococcus neoformans</i> is a pH-dependent transporter of manganese, iron, cobalt and nickel <i>Published as BJ Immediate Publication 7 September 2004, DOI 10.1042/BJ20040836</i>	D. Agranoff, L. Collins, D. Kehres, T. Harrison, M. Maguire and S. Krishna		225–232
Functional interaction between p75 ^{NTR} and TrkA: the endocytic trafficking of p75 ^{NTR} is driven by TrkA and regulates TrkA-mediated signalling <i>Published as BJ Immediate Publication 27 August 2004, D0I 10.1042/BJ20041155</i>	L. Perrone, S. Paladino, M. Mazzone, L. Nitsch, M. Gulisano and C. Zurzolo		233–241
Conserved extracellular cysteine residues and cytoplasmic loop—loop interplay are required for functionality of the heptahelical MLO protein Published as BJ Immediate Publication 8 September 2004, DOI 10.1042/BJ20040993	C. Elliott, J. Müller, M. Miklis, R.A. Bhat, P. Schulze-Lefert and R. Panstruga	online data	243–254
Structural characterization of <i>Escherichia coli</i> sensor histidine kinase EnvZ: the periplasmic C-terminal core domain is critical for homodimerization <i>Published as BJ Immediate Publication 9 September 2004</i> , <i>DOI 10.1042/BJ20041125</i>	A. Khorchid, M. Inouye and M. Ikura	online data	255–264
Protein interaction quantified <i>in vivo</i> by spectrally resolved fluorescence resonance energy transfer <i>Published as BJ Immediate Publication 7 September 2004</i> , <i>DOI 10.1042/BJ20040226</i>	V. Raicu, D.B. Jansma, R.J.D. Miller and J.D. Friesen		265–277
Differential induction of quinone reductase by phytoestrogens and protection against oestrogen-induced DNA damage Published as BJ Immediate Publication 30 September 2004, DOI 10.1042/BJ20040959	N.R. Bianco, L.J. Chaplin and M.M. Montano		279–287
Ribosomal protein L7a binds RNA through two distinct RNA-binding domains Published as BJ Immediate Publication 13 September 2004, DOI 10.1042/BJ20040371	G. Russo, M. Cuccurese, G. Monti, A. Russo, A. Amoresano, P. Pucci and C. Pietropaolo		289–299
The predominant polyphenol in the leaves of the resurrection plant <i>Myrothamnus flabellifolius</i> , 3,4,5 tri- <i>O</i> -galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation <i>Published as BJ Immediate Publication 9 September 2004</i> , <i>DOI 10.1042/BJ20040499</i>	J.P. Moore, K.L. Westall, N. Ravenscroft, J.M. Farrant, G.G. Lindsey and W.F. Brandt		301–308
ADP-ribosylation of integrin α 7 modulates the binding of integrin α 7 β 1 to laminin Published as BJ Immediate Publication 13 September 2004, DOI 10.1042/BJ20040590	Z. Zhao, J. Gruszczynska-Biegala and A. Zolkiewska		309–317
	B 147 1 14 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		040

R. Wiche, M. Gubesch, H. König, K. Fötisch,

A. Hoffmann, A. Wangorsch, S. Scheurer

and S. Vieths

319-327

Molecular basis of pollen-related food allergy: identification of a second cross-reactive IgE epitope on Pru av 1, the major cherry (*Prunus avium*) allergen *Published as BJ Immediate Publication 27 August 2004, DOI 10.1042/BJ20040842*