

Reviews

KESTREL: a powerful method for identifying the physiological substrates of protein kinases

Published on the Internet 12 December 2005,
doi:10.1042/BJ20051545

P. Cohen and A. Knebel 1–6

Intracellular signalling pathways activated by leptin

Published on the Internet 12 December 2005,
doi:10.1042/BJ20051578

G. Frühbeck 7–20

Cyclic nucleotide phosphodiesterases as targets for treatment of haematological malignancies

Published on the Internet 12 December 2005,
doi:10.1042/BJ20051368

A. Lerner and P.M. Epstein 21–41

Research Papers

The shed ectodomain of type XIII collagen associates with the fibrillar fibronectin matrix and may interfere with its assembly *in vitro*

Published as BJ Immediate Publication 9 August 2005,
doi:10.1042/BJ20051073

M.-R. Väisänen, T. Väisänen, H. Tu, P. Pirilä,
R. Sormunen and T. Pihlajaniemi 43–50

Probing the substrate binding site of *Candida tenuis* xylose reductase (AKR2B5) with site-directed mutagenesis

Published on the Internet 12 December 2005,
doi:10.1042/BJ20050831

R. Kratzer, S. Leitgeb, D.K. Wilson and B. Nidetzky 51–58

Endocytic processing of connexin43 gap junctions: a morphological study

Published as BJ Immediate Publication 15 September 2005,
doi:10.1042/BJ20050674

E. Leithe, A. Brech and E. Rivedal 59–67

MAPK interacts with occludin and mediates EGF-induced prevention of tight junction disruption by hydrogen peroxide

Published as BJ Immediate Publication 1 September 2005,
doi:10.1042/BJ20050959

S. Basuroy, A. Seth, B. Elias, A.P. Naren and R. Rao 69–77

Subcellular localization of rat Abca5, a rat ATP-binding-cassette transporter expressed in Leydig cells, and characterization of its splice variant apparently encoding a half-transporter

Published as BJ Immediate Publication 14 September 2005,
doi:10.1042/BJ20050808

F. Petry, V. Ritz, C. Meineke, P. Middel, T. Kietzmann,
C. Schmitz-Salue and K.I. Hirsch-Ernst 79–87

The structural roles of a conserved small hydrophobic core in the active site and an ionic bridge in domain I of Delta class glutathione S-transferase

Published as BJ Immediate Publication 12 September 2005,
doi:10.1042/BJ20050555

A. Vararattanavech, P. Prommeenate and A.J. Ketterman 89–95

Group V and X secretory phospholipase A₂ prevents adenoviral infection in mammalian cells

Published as BJ Immediate Publication 8 September 2005,
doi:10.1042/BJ20050781

M. Mitsuishi, S. Masuda, I. Kudo and M. Murakami 97–106



online data

LOX-1 scavenger receptor mediates calcium-dependent recognition of phosphatidylserine and apoptotic cells

Published as BJ Immediate Publication 8 September 2005,
doi:10.1042/BJ20051166

J.E. Murphy, D. Tacon, P.R. Tedbury,
J.M. Hadden, S. Knowling, T. Sawamura,
M. Peckham, S.E.V. Phillips, J.H. Walker
and S. Ponnambalam 107–115



online data

Biotinylation of glycan chains in β_2 glycoprotein I induces dimerization of the molecule and its detection by the human autoimmune anti-cardiolipin antibody EY2C9

Published as BJ Immediate Publication 15 August 2005,
doi:10.1042/BJ20050932

A. Dupuy d'Angeac, I. Stefas, H. Graafland, F. de Lamotte,
M. Rucheton, C. Palais, A.-K. Eriksson, P. Bosc, C. Rosé
and R. Chicheportiche 117–127

Role of MKK3 and p38 MAPK in cytokine-induced death of insulin-producing cells

Published as BJ Immediate Publication 15 August 2005,
doi:10.1042/BJ20050814

N. Makeeva, J.W. Myers and N. Welsh 129–139

SMAD 8 binding to mice <i>Msx1</i> basal promoter is required for transcriptional activation <i>Published as BJ Immediate Publication 16 August 2005,</i> <i>doi:10.1042/BJ20050327</i>	R. Binato, C.E. Alvarez Martinez, L. Pizzatti, B. Robert and E. Abdelhay	141–150
Stronger control of ATP/ADP by proton leak in pancreatic β -cells than skeletal muscle mitochondria <i>Published as BJ Immediate Publication 2 September 2005,</i> <i>doi:10.1042/BJ20051280</i>	C. Affourtit and M.D. Brand	151–159
Re-evaluation of receptor–ligand interactions of the human neuropeptide Y receptor Y1: a site-directed mutagenesis study <i>Published as BJ Immediate Publication 12 August 2005,</i> <i>doi:10.1042/BJ20050708</i>	P. Sjödin, S.K.S. Holmberg, H. Åkerberg, M.M. Berglund, N. Mohell and D. Larhammar	161–169
Effect of ATP on preadipocyte migration and adipocyte differentiation by activating P2Y receptors in 3T3-L1 cells <i>Published as BJ Immediate Publication 6 September 2005,</i> <i>doi:10.1042/BJ20051037</i>	M. Omatsu-Kanbe, K. Inoue, Y. Fujii, T. Yamamoto, T. Isono, N. Fujita and H. Matsuura	171–180
Differential regulation of glutamate–cysteine ligase subunit expression and increased holoenzyme formation in response to cysteine deprivation <i>Published as BJ Immediate Publication 2 September 2005,</i> <i>doi:10.1042/BJ20051111</i>	J.-I. Lee, J. Kang and M.H. Stipanuk	181–190
Protein kinase C ϵ interacts with cytochrome c oxidase subunit IV and enhances cytochrome c oxidase activity in neonatal cardiac myocyte preconditioning <i>Published on the Internet 12 December 2005,</i> <i>doi:10.1042/BJ20050757</i>	M. Ogbi and J.A. Johnson	191–199
PERK (eIF2 α kinase) is required to activate the stress-activated MAPKs and induce the expression of immediate-early genes upon disruption of ER calcium homeostasis <i>Published as BJ Immediate Publication 26 August 2005,</i> <i>doi:10.1042/BJ20050374</i>	S.-H. Liang, W. Zhang, B.C. McGrath, P. Zhang and D.R. Cavener	201–209
5-Lipoxygenase-activating protein homodimer in human neutrophils: evidence for a role in leukotriene biosynthesis <i>Published as BJ Immediate Publication 7 September 2005,</i> <i>doi:10.1042/BJ20060669</i>	H. Plante, S. Picard, J. Mancini and P. Borgeat	211–218
Constitutive expression of <i>catABC</i> genes in the aniline-assimilating bacterium <i>Rhodococcus</i> species AN-22: production, purification, characterization and gene analysis of CatA, CatB and CatC <i>Published as BJ Immediate Publication 13 September 2005,</i> <i>doi:10.1042/BJ20050740</i>	E. Matsumura, M. Sakai, K. Hayashi, S. Murakami, S. Takenaka and K. Aoki	219–226
Characterization of the gene encoding glyoxalase II from <i>Leishmania donovani</i> : a potential target for anti-parasite drugs <i>Published as BJ Immediate Publication 14 September 2005,</i> <i>doi:10.1042/BJ20050948</i>	P.K. Padmanabhan, A. Mukherjee and R. Madhubala	227–234
Quantitative model of Ras–phosphoinositide 3-kinase signalling cross-talk based on co-operative molecular assembly <i>Published as BJ Immediate Publication 14 September 2005,</i> <i>doi:10.1042/BJ20051022</i>	H. Kaur, C.S. Park, J.M. Lewis and J.M. Haugh	235–243
Staufen1 is imported into the nucleolus via a bipartite nuclear localization signal and several modulatory determinants <i>Published as BJ Immediate Publication 15 September 2005,</i> <i>doi:10.1042/BJ20050694</i>	C. Martel, P. Macchi, L. Furic, M.A. Kiebler and L. DesGroseillers	245–254
Lectin-like oxidized low-density lipoprotein receptor-1 (LOX-1) transcriptional regulation by Oct-1 in human endothelial cells: implications for atherosclerosis <i>Published as BJ Immediate Publication 21 September 2005,</i> <i>doi:10.1042/BJ20050845</i>	J. Chen, Y. Liu, H. Liu, P.L. Hermonat and J.L. Mehta	255–265
ScOPT1 and AtOPT4 function as proton-coupled oligopeptide transporters with broad but distinct substrate specificities <i>Published as BJ Immediate Publication 9 September 2005,</i> <i>doi:10.1042/BJ20050920</i>	H. Osawa, G. Stacey and W. Gassmann	267–275
The forkhead transcription factor Foxi1 directly activates the AE4 promoter <i>Published as BJ Immediate Publication 14 September 2005,</i> <i>doi:10.1042/BJ20051094</i>	I. Kurth, M. Hentschke, S. Hentschke, U. Borgmeyer, A. Gal and C.A. Hübner	277–283



Expression and characterization of a histidine-rich protein, Hpn: potential for Ni ²⁺ storage in <i>Helicobacter pylori</i> <i>Published as BJ Immediate Publication 16 September 2005,</i> <i>doi:10.1042/BJ20051160</i>	R. Ge, R.M. Watt, X. Sun, J.A. Tanner, Q.-Y. He, J.-D. Huang and H. Sun		285–293
Overproduction of cardiac S-adenosylmethionine decarboxylase in transgenic mice <i>Published as BJ Immediate Publication 12 September 2005,</i> <i>doi:10.1042/BJ20051196</i>	O. Nisenberg, A.E. Pegg, P.A. Welsh, K. Keefer and L.M. Shantz		295–302
Fission yeast Dss1 associates with the proteasome and is required for efficient ubiquitin-dependent proteolysis <i>Published as BJ Immediate Publication 8 September 2005,</i> <i>doi:10.1042/BJ20051238</i>	L. Jossé, M.E. Harley, I.M.S. Pires and D.A. Hughes		303–309
Tid1 is a Smad-binding protein that can modulate Smad7 activity in developing embryos <i>Published as BJ Immediate Publication 13 September 2005,</i> <i>doi:10.1042/BJ20050785</i>	I. Torregroza and T. Evans		311–320
Identification and analysis of the promoter region of the human methionine sulphoxide reductase A gene <i>Published as BJ Immediate Publication 14 September 2005,</i> <i>doi:10.1042/BJ20050973</i>	A. De Luca, P. Sacchetta, C. Di Ilio and B. Favaloro		321–329
Carbohydrate specificity of an insecticidal lectin isolated from the leaves of <i>Glechoma hederacea</i> (ground ivy) towards mammalian glycoconjugates <i>Published as BJ Immediate Publication 12 September 2005,</i> <i>doi:10.1042/BJ20051162</i>	T. Singh, J.H. Wu, W.J. Peumans, P. Rougé, E.J.M. Van Damme, R.A. Alvarez, O. Blixt and A.M. Wu		331–341
Interaction with phospholipids modulates α -synuclein nitration and lipid–protein adduct formation <i>Published as BJ Immediate Publication 8 September 2005,</i> <i>doi:10.1042/BJ20051277</i>	A. Trostchansky, S. Lind, R. Hodara, T. Oe, I.A. Blair, H. Ischiropoulos, H. Rubbo and J.M. Souza		343–349
CD16b associates with high-density, detergent-resistant membranes in human neutrophils <i>Published as BJ Immediate Publication 19 September 2005,</i> <i>doi:10.1042/BJ20050129</i>	M.J.G. Fernandes, E. Rollet-Labelle, G. Paré, S. Marois, M.-L. Tremblay, J.-L. Teillaud and P.H. Naccache		351–359
The hnRNPs F and H2 bind to similar sequences to influence gene expression <i>Published as BJ Immediate Publication 20 September 2005,</i> <i>doi:10.1042/BJ20050538</i>	S.A. Alkan, K. Martincic and C. Milcarek		361–371
Archaeal <i>Pyrococcus furiosus</i> thymidylate synthase 1 is an RNA-binding protein <i>Published as BJ Immediate Publication 21 September 2005,</i> <i>doi:10.1042/BJ20050608</i>	A. Kanai, A. Sato, J. Imoto and M. Tomita		373–379
Physical and functional interactions between <i>Escherichia coli</i> MutY and endonuclease VIII <i>Published as BJ Immediate Publication 4 October 2005,</i> <i>doi:10.1042/BJ20051133</i>	A.-L. Lu, C.-Y. Lee, L. Li and X. Li		381–387
Effects of novel maturity-onset diabetes of the young (MODY)-associated mutations on glucokinase activity and protein stability <i>Published as BJ Immediate Publication 21 September 2005,</i> <i>doi:10.1042/BJ20051137</i>	M. Galán, O. Vincent, I. Roncero, S. Azriel, P. Boix-Pallares, E. Delgado-Alvarez, F. Díaz-Cadorniga, E. Blázquez and M.-A. Navas		389–396
Nkx3.1 binds and negatively regulates the transcriptional activity of Sp-family members in prostate-derived cells <i>Published as BJ Immediate Publication 4 October 2005,</i> <i>doi:10.1042/BJ20051030</i>	S.O. Simmons and J.M. Horowitz		397–409
TonEBP is inhibited by RNA helicase A via interaction involving the E'F loop <i>Published as BJ Immediate Publication 21 September 2005,</i> <i>doi:10.1042/BJ20051082</i>	E. Colla, S.D. Lee, M.R. Sheen, S.K. Woo and H.M. Kwon		411–419
The orphan transporter v7-3 (slc6a15) is a Na ⁺ -dependent neutral amino acid transporter (B ⁰ AT2) <i>Published as BJ Immediate Publication 26 September 2005,</i> <i>doi:10.1042/BJ20051273</i>	A. Bröer, N. Tietze, S. Kowalczyk, S. Chubb, M. Munzinger, L.K. Bak and S. Bröer		421–430
Expression of UCP3 in CHO cells does not cause uncoupling, but controls mitochondrial activity in the presence of glucose <i>Published as BJ Immediate Publication 23 September 2005,</i> <i>doi:10.1042/BJ20050494</i>	J. Mozo, G. Ferry, A. Studeny, C. Pecqueur, M. Rodriguez, J.A. Boutin and F. Bouillaud		431–439