Biochemical Journal Volume 387, part 3 1 May 2005

http://www.BiochemJ.org

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

	OW	
evi		

DOI 10.1042/BJ20041596

Exploring the functions of RNA interference pathway K. Jaronczyk, J.B. Carmichael and T.C. Hobman 561-571 proteins: some functions are more RISCy than others? Published on the Internet 26 April 2005, DOI 10.1042/BJ20041822 **Research Papers** The sustainability of interactions between the S. Milasta, N.A. Evans, L. Ormiston, S. Wilson, 573-584 orexin-1 receptor and β -arrestin-2 is defined by a R.J. Lefkowitz and G. Milligan single C-terminal cluster of hydroxy amino acids and modulates the kinetics of ERK MAPK regulation Published as BJ Immediate Publication 31 January 2005, DOI 10.1042/BJ20041745 585-590 Bulgecin A: a novel inhibitor of binuclear A.M. Simm, E.J. Loveridge, J. Crosby, M.B. Avison, metallo-β-lactamases T.R. Walsh and P.M. Bennett Published as BJ Immediate Publication 30 November 2004, DOI 10.1042/BJ20041542 R. Datta, I. Das, B. Sen, A. Chakraborty, S. Adak, 591-600 Mutational analysis of the active-site residues crucial for catalytic activity of adenosine kinase from C. Mandal and A.K. Datta Leishmania donovani Published as BJ Immediate Publication 17 December 2004, DOI 10.1042/BJ20041733 Pregnenolone- 16α -carbonitrile inhibits rodent liver C.J. Marek, S.J. Tucker, D.K. Konstantinou, L.J. Elrick, 601-608 fibrogenesis via PXR (pregnane X receptor)-D. Haefner, C. Sigalas, G.I. Murray, B. Goodwin and dependent and PXR-independent mechanisms M.C. Wright Online data Published as BJ Immediate Publication 14 December 2004, DOI 10.1042/BJ20041598 Oxalate-inducible AMBP gene and its regulatory 609-616 J.S. Grewal, J.Y. Tsai and S.R. Khan mechanism in renal tubular epithelial cells Published as BJ Immediate Publication 8 November 2004, DOI 10.1042/BJ20041465 Ypr140wp, 'the yeast tafazzin', displays a E. Testet, J. Laroche-Traineau, A. Noubhani, D. Coulon, 617-626 mitochondrial lysophosphatidylcholine (lyso-PC) O. Bunoust, N. Camougrand, S. Manon, R. Lessire and acyltransferase activity related to triacylglycerol and J.-J. Bessoule mitochondrial lipid synthesis Published as BJ Immediate Publication 9 December 2004, DOI 10.1042/BJ20041491 Sprouty-4 negatively regulates cell spreading by Y. Tsumura, J. Toshima, O.C. Leeksma, K. Ohashi 627-637 inhibiting the kinase activity of testicular protein and K. Mizuno kinase Published as BJ Immediate Publication 7 December 2004, DOI 10 1042/BJ20041181 The yeast cyclin-dependent kinase inhibitor Sic1 M. Barberis, L. De Gioia, M. Ruzzene, S. Sarno, 639-647 and mammalian p27Kip1 are functional homologues P. Coccetti, P. Fantucci, M. Vanoni and L. Alberghina with a structurally conserved inhibitory domain Published as BJ Immediate Publication 14 January 2005, DOI 10.1042/BJ20041299 649-658 Lsb5p interacts with actin regulators Sla1p and R. Costa, D.T. Warren and K.R. Ayscough Las17p, ubiquitin and Arf3p to couple actin dynamics to membrane trafficking processes Published as BJ Immediate Publication 17 January 2005, DOI 10.1042/BJ20041729 A proteolytic fragment of McI-1 exhibits nuclear S. Jamil, R. Sobouti, P. Hojabrpour, M. Raj, J. Kast 659-667 localization and regulates cell growth by interaction and V. Duronio with Cdk1 Published as BJ Immediate Publication 22 November 2004,

The plastid division proteins, FtsZ1 and FtsZ2, differ in their biochemical properties and sub-plastidial localization Published as BJ Immediate Publication 15 December 2004, DOI 10.1042/BJ20041281	ES. El-Kafafi, S. Mukherjee, M. El-Shami, JL. Putaux, M.A. Block, I. Pignot-Paintrand, S. Lerbs-Mache and D. Falconet	669–676
Inhibitory effect of palmitate on the mitochondrial NADH:ubiquinone oxidoreductase (complex I) as related to the active—de-active enzyme transition Published as BJ Immediate Publication 30 November 2004, DOI 10.1042/BJ20041703	M.V. Loskovich, V.G. Grivennikova, G. Cecchini and A.D. Vinogradov	677–683
Nitric oxide consumption through lipid peroxidation in brain cell suspensions and homogenates Published as BJ Immediate Publication 3 December 2004, DOI 10.1042/BJ20041431	R.G. Keynes, C.H. Griffiths, C. Hall and J. Garthwaite	685–694
Probing conformational changes of human serum albumin due to unsaturated fatty acid binding by chemical cross-linking and mass spectrometry Published as BJ Immediate Publication 10 December 2004, DOI 10.1042/BJ20041624	B.X. Huang, C. Dass and HY. Kim	695–702
Role of compartmentalized redox-active iron in hydrogen peroxide-induced DNA damage and apoptosis Published as BJ Immediate Publication 3 December 2004, DOI 10.1042/BJ20041650	M. Tenopoulou, PT. Doulias, A. Barbouti, U. Brunk and D. Galaris	703–710
Regulation of the prolyl hydroxylase domain protein 2 (phd2/egln-1) gene: identification of a functional hypoxia-responsive element Published as BJ Immediate Publication 24 November 2004, DOI 10.1042/BJ20041736	E. Metzen, D.P. Stiehl, K. Doege, J.H. Marxsen, T. Hellwig-Bürgel and W. Jelkmann	711–717
Mode of action of xylogalacturonan hydrolase towards xylogalacturonan and xylogalacturonan oligosaccharides Published as BJ Immediate Publication 24 November 2004, DOI 10.1042/BJ20041583	J. Zandleven, G. Beldman, M. Bosveld, J. Benen and A. Voragen	719–725
A novel site contributing to growth-arrest-specific gene 6 binding to its receptors as revealed by a human monoclonal antibody Published as BJ Immediate Publication 3 December 2004, DOI 10.1042/BJ20040859	P.W. Fisher, M. Brigham-Burke, SJ. Wu, J. Luo, J. Carton, K. Staquet, W. Gao, S. Jackson, D. Bethea, C. Chen, B. Hu, J. Giles-Komar and J. Yang	727–735
Sp3 is involved in the regulation of SOCS3 gene expression Published as BJ Immediate Publication 23 November 2004, DOI 10.1042/BJ20041101	C. Ehlting, D. Häussinger and J.G. Bode	737–745
Orientation and mode of lipid-binding interaction of human apolipoprotein E C-terminal domain Published as BJ Immediate Publication 10 December 2004, DOI 10.1042/BJ20041536	V. Raussens, J. Drury, T.M. Forte, N. Choy, E. Goormaghtigh, JM. Ruysschaert and V. Narayanaswami	747–754
Bifunctional promoter of type IV collagen COL4A5 and COL4A6 genes regulates the expression of α 5 and α 6 chains in a distinct cell-specific fashion Published as BJ Immediate Publication 15 December 2004, DOI 10.1042/BJ20041870	M. Sund, Y. Maeshima and R. Kalluri	755–761
Endothelin-1 expression is strongly repressed by AU-rich elements in the 3'-untranslated region of the gene Published as BJ Immediate Publication 14 December 2004, DOI 10.1042/BJ20041687	F.M. Reimunde, C. Castañares, M. Redondo-Horcajo, S. Lamas and F. Rodríguez-Pascual	763–772
Comparative analysis of the pathogenic mechanisms associated with the G8363A and A8296G mutations in the mitochondrial tRNA ^{Lys} gene <i>Published as BJ Immediate Publication 22 November 2004</i> , <i>DOI 10.1042/BJ20040949</i>	B. Bornstein, J.A. Mas, C. Patrono, M.A. Fernández-Moreno, E. González-Vioque, Y. Campos, R. Carrozzo, M.A. Martín, P. del Hoyo, F.M. Santorelli, J. Arenas and R. Garesse	773–778
Generation and function of astroglial lipoproteins from Niemann–Pick type C1-deficient mice Published as BJ Immediate Publication 15 November 2004, DOI 10.1042/BJ20041694	B. Karten, H. Hayashi, G.A. Francis, R.B. Campenot, D.E. Vance and J.E. Vance	779–788
Aha1 competes with Hop, p50 and p23 for binding to the molecular chaperone Hsp90 and contributes to kinase and hormone receptor activation Published as BJ Immediate Publication 7 December 2004, D0I 10.1042/BJ20041283	A. Harst, H. Lin and W.M.J. Obermann	789–796

membranes: comparison of S- and P-type cytotoxins Published as BJ Immediate Publication 7 December 2004, DOI 10.1042/BJ20041814	P.V. Dubovskii, D.M. Lesovoy, M.A. Dubinnyi, A.G. Konshina, Y.N. Utkin, R.G. Efremov and A.S. Arseniev		807-815
The first cysteine-rich domain of the receptor $GFR\alpha 1$ stabilizes the binding of GDNF Published as BJ Immediate Publication 20 December 2004, DOI 10.1042/BJ20041257	H. Virtanen, J. Yang, M.M. Bespalov, J.O. Hiltunen, VM. Leppänen, N. Kalkkinen, A. Goldman, M. Saarma and P. Runeberg-Roos		817–824
Characteristics of glutamine metabolism in human precision-cut kidney slices: a ¹³ C-NMR study <i>Published as BJ Immediate Publication 3 December 2004, DOI 10.1042/BJ20041309</i>	A. Vittorelli, C. Gauthier, C. Michoudet, G. Martin and G. Baverel		825–834
Epolactaene binds human Hsp60 Cys ⁴⁴² resulting in the inhibition of chaperone activity <i>Published as BJ Immediate Publication 16 December 2004, DOI 10.1042/BJ20041355</i>	Y. Nagumo, H. Kakeya, M. Shoji, Y. Hayashi, N. Dohmae and H. Osada	online date	835–840
Purification of a 75 kDa protein from the organelle matrix of human neutrophils and identification as N-acetylglucosamine-6-sulphatase Published as BJ Immediate Publication 14 December 2004, DOI 10.1042/BJ20041811	S. Xu, L. Zhao, A. Larsson, E. Smeds, M. Kusche-Gullberg and P. Venge		841–847
Identification of a unique filamin A binding region within the cytoplasmic domain of glycoprotein $lb\alpha$ Published as BJ immediate Publication 2 December 2004, DOI 10.1042/BJ20041836	S.L. Cranmer, I. Pikovski, P. Mangin, P.E. Thompson, T. Domagala, M. Frazzetto, H.H. Salem and S.P. Jackson		849–858
Characterization of an archaeal family 4 uracil DNA glycosylase and its interaction with PCNA and chromatin proteins Published as BJ Immediate Publication 10 December 2004, DOI 10.1042/BJ20041661	I. Dionne and S.D. Bell		859–863
Sensitivity of plant mitochondrial terminal oxidases to the lipid peroxidation product 4-hydroxy-2-nonenal (HNE) Published as BJ Immediate Publication 2 February 2005, DOI 10.1042/BJ20042044	A.M. Winger, A.H. Millar and D.A. Day		865–870
Ixolaris: a Factor Xa heparin-binding exosite inhibitor Published as BJ Immediate Publication 23 December 2004, DOI 10.1042/BJ20041738	R.Q. Monteiro, A.R. Rezaie, J.M.C. Ribeiro and I.M.B. Francischetti		871–877
Characterization of the promoters of Epsilon glutathione transferases in the mosquito Anopheles gambiae and their response to oxidative stress Published as BJ Immediate Publication 20 January 2005, DOI 10.1042/BJ20041850	Y. Ding, N. Hawkes, J. Meredith, P. Eggleston, J. Hemingway and H. Ranson	online data	879–888
Identification and assessment of the role of a nominal phospholipid binding region of ORP1S (oxysterol-binding-protein-related protein 1 short) in the regulation of vesicular transport Published as BJ Immediate Publication 23 December 2004, DOI 10.1042/BJ20041915	G.D. Fairn and C.R. McMaster		889–896
Misfolded BiP is degraded by a proteasome- independent endoplasmic-reticulum-associated degradation pathway Published as BJ Immediate Publication 20 December 2004, DOI 10.1042/BJ20041312	G. Donoso, V. Herzog and A. Schmitz		897–903
Probing a putative dantrolene-binding site on the cardiac ryanodine receptor Published as BJ Immediate Publication 19 January 2005, DOI 10.1042/BJ20041336	K. Paul-Pletzer, T. Yamamoto, N. Ikemoto, L.S. Jimenez, H. Morimoto, P.G. Williams, J. Ma and J. Parness		905–909
Mucin glycosylation changes in cystic fibrosis lung disease are not manifest in submucosal gland secretions Published as BJ Immediate Publication 25 November 2004, DOI 10.1042/BJ20041641	B.L. Schulz, A.J. Sloane, L.J. Robinson, L.T. Sebastian, A.R. Glanville, Y. Song, A.S. Verkman, J.L. Harry, N.H. Packer and N.G. Karlsson	online data	911–919