

Biochemical Journal
Volume 392, part 3
15 December 2005

<http://www.BiochemJ.org>

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

Research Papers

EGFR kinase possesses a broad specificity for ErbB phosphorylation sites, and ligand increases catalytic-centre activity without affecting substrate binding affinity

*Published as BJ Immediate Publication 26 August 2005,
doi:10.1042/BJ20051122*

Trafficking defects of the Southeast Asian ovalocytosis deletion mutant of anion exchanger 1 membrane proteins

*Published as BJ Immediate Publication 18 August 2005,
doi:10.1042/BJ20051076*

Regulation of the localization and activity of inositol 1,4,5-trisphosphate 3-kinase B in intact cells by proteolysis

*Published as BJ Immediate Publication 21 September 2005,
doi:10.1042/BJ20050829*

Conformation-dependent inactivation of human betaine-homocysteine S-methyltransferase by hydrogen peroxide *in vitro*

*Published as BJ Immediate Publication 25 July 2005,
doi:10.1042/BJ20050356*

Induction of apoptosis by lipophilic activators of CTP:phosphocholine cytidylyltransferase α (CCT α)

*Published as BJ Immediate Publication 15 August 2005,
doi:10.1042/BJ20051021*

Intracellular colocalization and interaction of IGF-binding protein-2 with the cyclin-dependent kinase inhibitor p21^{CIP1/WAF1} during growth inhibition

*Published as BJ Immediate Publication 30 August 2005,
doi:10.1042/BJ20050517*

Role for a P-type H⁺-ATPase in the acidification of the endocytic pathway of *Trypanosoma cruzi*

*Published as BJ Immediate Publication 8 September 2005,
doi:10.1042/BJ20051319*

An AU-rich stem-loop structure is a critical feature of the perinuclear localization signal of c-myc mRNA

*Published as BJ Immediate Publication 26 July 2005,
doi:10.1042/BJ20050812*

Tetraivalent single-chain avidin: from subunits to protein domains via circularly permuted avidins

*Published as BJ Immediate Publication 10 August 2005,
doi:10.1042/BJ20051038*

The type III inositol 1,4,5-trisphosphate receptor is phosphorylated by cAMP-dependent protein kinase at three sites

*Published as BJ Immediate Publication 18 August 2005,
doi:10.1042/BJ20051325*

Poly(ADP-ribose) glycohydrolase is a component of the FMRP-associated messenger ribonucleoparticles

*Published as BJ Immediate Publication 23 August 2005,
doi:10.1042/BJ20050792*

Y.-X. Fan, L. Wong and G.R. Johnson

417–423

J.C. Cheung, E. Cordat and R.A.F. Reithmeier

425–434

J.C.H. Yu, S.M. Lloyd-Burton, R.F. Irvine and M.J. Schell

435–441

C.M. Miller, S.S. Szegedi and T.A. Garrow

443–448

T.A. Lagace and N.D. Ridgway

449–456

X. Terrien, E. Bonvin, S. Corroyer, O. Tabary, A. Clement and A. Henrion Caudé

457–465

M. Vieira, P. Rohloff, S. Luo, N.L. Cunha-e-Silva, W. de Souza and R. Docampo

467–474

H. Chabanon, I. Mickleburgh, B. Burtle, C. Pedder and J. Hesketh

475–483



H.R. Nordlund, V.P. Hytönen, J. Hörhä, J.A.E. Määttä, D.J. White, K. Halling, E.J. Porkka, J.P. Slotte, O.H. Laitinen and M.S. Kulomaa

485–491

M.D. Soulsby and R.J.H. Wojcikiewicz

493–497

J.-P. Gagné, M.-È. Bonicalzi, P. Gagné, M.-È. Ouellet, M.J. Hendzel and G.G. Poirier

499–509

Physical and biochemical properties of mammalian DNase X proteins: non-AUG translation initiation of porcine and bovine mRNAs for DNase X <i>Published as BJ Immediate Publication 15 August 2005, doi:10.1042/BJ20051114</i>	D. Shiokawa, Y. Shika, K. Saito, K. Yamazaki and S.-i. Tanuma	511–517
Distinct domains of the sodium channel $\beta 3$ -subunit modulate channel-gating kinetics and subcellular location <i>Published as BJ Immediate Publication 4 August 2005, doi:10.1042/BJ20050518</i>	E.J. Yu, S.-H. Ko, P.W. Lenkowski, A. Pance, M.K. Patel and A.P. Jackson	519–526
Inhibition of enzyme activity of and cell-mediated substrate cleavage by membrane type 1 matrix metalloproteinase by newly developed mercaptosulphide inhibitors <i>Published as BJ Immediate Publication 19 July 2005, doi:10.1042/BJ20050545</i>	D.R. Hurst, M.A. Schwartz, Y. Jin, M.A. Ghaffari, P. Kozarekar, J. Cao and Q.-X.A. Sang	527–536
The calcium-dependent ATP-Mg/P _i mitochondrial carrier is a target of glucose-induced calcium signalling in <i>Saccharomyces cerevisiae</i> <i>Published as BJ Immediate Publication 22 August 2005, doi:10.1042/BJ20050806</i>	S. Cavero, J. Traba, A. del Arco and J. Satrústegui	537–544
The effect of N-terminal truncation on double-dimer assembly of goose δ -crystallin <i>Published as BJ Immediate Publication 15 August 2005, doi:10.1042/BJ20050860</i>	H.-J. Lee, Y.-H. Lai, S.-Y. Wu and Y.-H. Chen	545–554
Influence of the chemistry of conjugation of poly(ethylene glycol) to Hb on the oxygen-binding and solution properties of the PEG-Hb conjugate <i>Published as BJ Immediate Publication 19 August 2005, doi:10.1042/BJ20050663</i>	T. Hu, M. Prabhakaran, S.A. Acharya and B.N. Manjula	555–564
The <i>in situ</i> observation of the temperature and pressure stability of recombinant <i>Aspergillus aculeatus</i> pectin methylesterase with Fourier transform IR spectroscopy reveals an unusual pressure stability of β -helices <i>Published as BJ Immediate Publication 28 July 2005, doi:10.1042/BJ20050721</i>	C. Dirix, T. Duvetter, A.V. Loey, M. Hendrickx and K. Heremans	565–571
α B-crystallin, a small heat-shock protein, prevents the amyloid fibril growth of an amyloid β -peptide and β_2 -microglobulin <i>Published as BJ Immediate Publication 1 August 2005, doi:10.1042/BJ20050393</i>	B. Raman, T. Ban, M. Sakai, S.Y. Pasta, T. Ramakrishna, H. Naiki, Y. Goto and Ch.M. Rao	573–581
Reduction of ferric haemoproteins by tetrahydropterins: a kinetic study <i>Published as BJ Immediate Publication 28 July 2005, doi:10.1042/BJ20050437</i>	C. Capeillere-Blandin, D. Mathieu and D. Mansuy	583–587
Regulation of ERK1 gene expression by coactivator proteins <i>Published as BJ Immediate Publication 29 July 2005, doi:10.1042/BJ20050542</i>	B.Y. Chu, K. Tran, T.K.S. Ku and D.L. Crowe	589–599
The role of Ca ²⁺ in triggering inositol 1,4,5-trisphosphate receptor ubiquitination <i>Published as BJ Immediate Publication 1 September 2005, doi:10.1042/BJ20050949</i>	K.J. Alzayady and R.J.H. Wojcikiewicz	601–606
Specific role for p85/p110 β in GTP-binding-protein-mediated activation of Akt <i>Published as BJ Immediate Publication 10 August 2005, doi:10.1042/BJ20050671</i>	H. Kubo, K. Hazeki, S. Takasuga and O. Hazeki	607–614
Deciphering the molecular bases of <i>Mycobacterium tuberculosis</i> binding to the lectin DC-SIGN reveals an underestimated complexity <i>Published as BJ Immediate Publication 10 August 2005, doi:10.1042/BJ20050709</i>	S. Pitarque, J.-L. Herrmann, J.-L. Duteyrat, M. Jackson, G.R. Stewart, F. Leconte, B. Payre, O. Schwartz, D.B. Young, G. Marchal, P.H. Lagrange, G. Puzo, B. Gicquel, J. Nigou and O. Neyrolles	615–624
Tissue-specific cytochrome c oxidase assembly defects due to mutations in <i>SCO2</i> and <i>SURF1</i> <i>Published as BJ Immediate Publication 8 August 2005, doi:10.1042/BJ20050807</i>	L. Stiburek, K. Vesela, H. Hansikova, P. Pecina, M. Tesarova, L. Cerna, J. Houstek and J. Zeman	625–632

Analysis of hepatic gene transcription in mice expressing insulin-insensitive GSK3 <i>Published as BJ Immediate Publication 21 September 2005, doi:10.1042/BJ20051046</i>	C. Lipina, X. Huang, D. Finlay, E.J. McManus, D.R. Alessi and C. Sutherland	633–639
Integrin-linked kinase is responsible for Ca ²⁺ -independent myosin diphosphorylation and contraction of vascular smooth muscle <i>Published as BJ Immediate Publication 4 October 2005, doi:10.1042/BJ20051173</i>	D.P. Wilson, C. Sutherland, M.A. Borman, J.T. Deng, J.A. MacDonald and M.P. Walsh	641–648
Far-red fluorescent proteins evolved from a blue chromoprotein from <i>Actinia equina</i> <i>Published as BJ Immediate Publication 15 September 2005, doi:10.1042/BJ20051314</i>	M.A. Shkrob, Y.G. Yanushevich, D.M. Chudakov, N.G. Gurskaya, Y.A. Labas, S.Y. Poponov, N.N. Mudrik, S. Lukyanov and K.A. Lukyanov	649–654
Cloning and functional identification of slc5a12 as a sodium-coupled low-affinity transporter for monocarboxylates (SMCT2) <i>Published as BJ Immediate Publication 17 August 2005, doi:10.1042/BJ20050927</i>	S.R. Srinivas, E. Gopal, L. Zhuang, S. Itagaki, P.M. Martin, Y.-J. Fei, V. Ganapathy and P.D. Prasad	655–664
Molecular cloning and expression of a human hST8Sia VI (α 2,8-sialyltransferase) responsible for the synthesis of the diSia motif on O-glycosylproteins <i>Published as BJ Immediate Publication 24 August 2005, doi:10.1042/BJ20051120</i>	M. Teintenier-Lelièvre, S. Julien, S. Julian, Y. Guerardel, M. Duonor-Cérutti, P. Delannoy and A. Harduin-Lepers	665–674
Triosephosphate isomerase deficiency: consequences of an inherited mutation at mRNA, protein and metabolic levels <i>Published as BJ Immediate Publication 9 August 2005, doi:10.1042/BJ20050993</i>	J. Oláh, F. Orosz, L.G. Puskás, L. Hackler, Jr, M. Horányi, L. Polgár, S. Hollán and J. Ovádi	675–683
Role of cysteine residues in the function of human UDP glucuronosyltransferase isoform 1A1 (UGT1A1) <i>Published as BJ Immediate Publication 17 August 2005, doi:10.1042/BJ20050381</i>	S.S. Ghosh, Y. Lu, S.W. Lee, X. Wang, C. Guha, J. Roy-Chowdhury and N. Roy-Chowdhury	685–692
The kinetics of oxidation of GSH by protein radicals <i>Published as BJ Immediate Publication 9 August 2005, doi:10.1042/BJ20050539</i>	T. Nauser, W.H. Koppenol and J.M. Gebicki	693–701
Specific conformational changes of plasminogen induced by chloride ions, 6-aminoheanoic acid and benzamidine, but not the overall openness of plasminogen regulate production of biologically active angiostatins <i>Published as BJ Immediate Publication 12 August 2005, doi:10.1042/BJ20050907</i>	D.J. Warejcka and S.S. Twining	703–712

